

United States Renal Data System

National Institutes of Health
National Institute of Diabetes
and Digestive and Kidney Diseases
Division of Kidney, Urologic,
and Hematologic Diseases

Researcher's Guide to the USRDS Database



2007 ADR Edition

PREFACE

The *Researcher's Guide* is intended for investigators within and outside of the USRDS Coordinating Center who wish to undertake research projects using data from the USRDS database. The *Guide* places particular emphasis on the USRDS Standard Analysis Files (SAFs), the primary means by which USRDS data are available for use. The *Researcher's Guide* includes the information needed to select and use the appropriate SAFs for the intended project.

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Publications based upon USRDS data reported here or supplied upon request must include the citation as noted above and the following notice:

- ◆ The data reported here have been supplied by the United States Renal Data System (USRDS). The interpretation and reporting of these data are the responsibility of the author(s) and in no way should be seen as an official policy or interpretation of the US government.

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INTRODUCTION

This *Researcher's Guide to the USRDS Database* is designed to assist those interested in using USRDS data to perform their own analyses. The following material is addressed:

- ◆ Getting Started. Examples of datasets and steps to help start constructing analyses.
- ◆ Section 1 ESRD Data Sources and the Database System. General descriptions of data available to the USRDS and the processes involved in their creation.
- ◆ Section 2 ESRD Patients. Methods used to define ESRD patients.
- ◆ Section 3 Treatment History. Methods used to create a treatment history for each patient.
- ◆ Section 4 Payer History. Methods for analyzing insurance payer information.
- ◆ Section 5 Transplant Process and Outcomes. Methods for analyzing transplant patient data.
- ◆ Section 6 Morbidity and Hospitalization. Methods for analyzing morbidity and hospitalization data.
- ◆ Section 7 Survival and Mortality. Methods for analyzing survival and mortality data.
- ◆ Section 8 Providers. Description of the Facility database, which contains data on US dialysis facilities.
- ◆ Section 9 Disease-Based Cohort. Description of the DM/CKD/CHF cohort finder files by year, using the 5% General Medicare Claims data and ESRD patient demographic information.

The appendices include:

- ◆ Data products and descriptions.
- ◆ Detailed discussion of the Medicare Claims.
- ◆ Statistical methods used by the USRDS.
- ◆ Data files available to researchers, with data dictionaries.
- ◆ Data formatting information.
- ◆ Lists of data forms available at www.usrds.org: CMS, UNOS, and CDC ESRD data forms; Special Study ESRD data forms; DMMS Waves I, II, III, IV, and FACS study forms.
- ◆ A glossary.

HISTORY OF THE USRDS

The first USRDS contract was awarded in 1988 to the Urban Institute in Washington, DC, which worked in conjunction with investigators at the University of Michigan at Ann Arbor. Under a new contract created in 1999, the USRDS was divided into a Coordinating Center (CC) and four Special Studies Centers (SSCs), each of which continues to operate under the direction of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) at the National Institutes of Health (NIH).

The CC and Cardiovascular SSC contracts were awarded in 1999 to the Minneapolis Medical Research Foundation, and are directed by Allan Collins MD and Charles Herzog MD, respectively. The Economic SSC was awarded to the University of Iowa under the direction of Lawrence Hunsicker MD. In 2000, the Nutrition SSC was awarded to the University of California at San Francisco, directed by Glenn Chertow MD, and the Rehabilitation SSC to Emory University, directed by Nancy Kutner PhD.

In early 2007, the CC and the SSCs entered a new seven-year contract period. The Cardiovascular, Nutrition, and Quality of Life/Rehabilitation SSCs remain as before, and the activities of the Economic SSC are included with those of the CC.

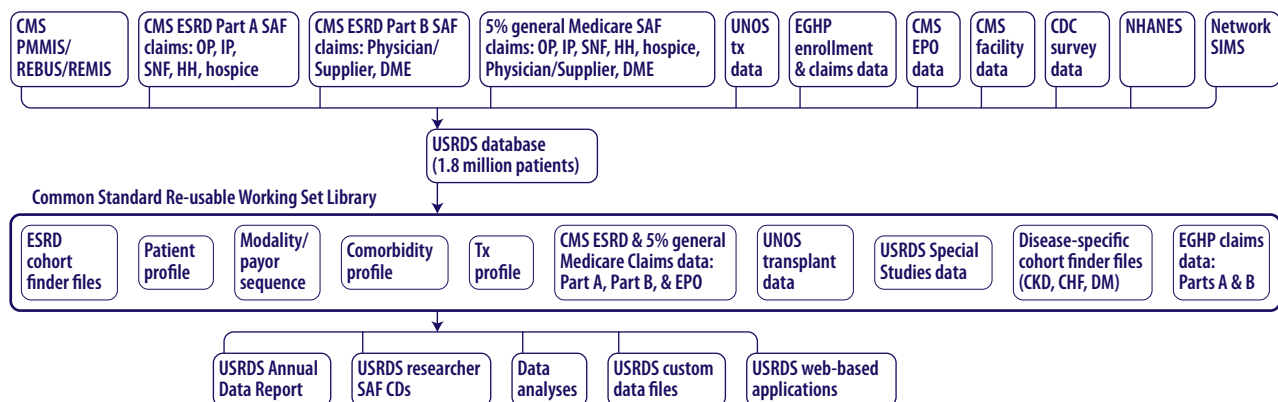
USRDS WEBSITE: WWW.USRDS.ORG

The USRDS website provides users with access to PDF files of the printed *Annual Data Report* (ADR), Excel files of the Reference Tables and the data underlying the graphs and state maps, and PowerPoint slides of USRDS presentations and ADR figures. Because of the size and complexity of the ADR files, downloading time for large portions of the book may be substantial; estimated times using a 56 kbs modem are provided next to the file names.

CIRS (COHORT ID RETRIEVAL SYSTEM)

Designed for renal researchers who have active Data Use Agreements (DUA) with the USRDS, CIRS quickly extracts a matching cohort list into a downloadable file. Using a simple query interface, users can select cohort characteristics, submit the query, and download a Comma Separated (CSV) text file containing a list of that cohort's unique ID's. For access, users must have a current DUA and an assigned password.

Structure of the USRDS Database



Note: To use this feature or to obtain a DUA, you must have received a USRDS SAF. Contact the USRDS for further information. Phone 612-347-7776, toll free 1-888-99USRDS, fax 612-347-5878, usrds@usrds.org.

RENDER

The USRDS Renal Data Extraction and Referencing (RENDER) System is an online data querying application accessible through the USRDS website, allowing access to a wealth of information regarding ESRD in the United States. It quickly returns an accurate table of data or an interactive map based on the user's query specifications. Tables can be copied into a spreadsheet application on the user's computer for further manipulation and investigation, and map images can be copied or saved to local applications. A database file download of the mapped data, which can be opened or imported by most spreadsheet applications, is also available.

The RenDER System allows easy access to some of the most frequently requested data. While the ADR thoroughly covers many ESRD statistics, it cannot reasonably contain the more detailed tables often requested by researchers. RenDER allows users to "drill down" into the data behind many of the tables published in the ADR, allowing cross interactions among various demographic fields. For more information, visit http://www.usrds.org/odr/xrender_home.asp to access the RenDER tutorial.

WHAT'S NEW IN 2007

NEW MEDICAL EVIDENCE REPORT (FORM CMS-2728)

A new medical evidence form was introduced in May, 2005. Thus, the data file 'medevid' will be split into 'medevid95' and 'medevid05' on the 2007 Core SAF CD. File 'medevid95' includes patients who used the 1995 version and 'medevid05' includes patients who used the 2005 version form. Both files are on the 4th CD of the Core CD set.

Changes to the form and new variables.

RACE: Multiple races can now be checked. The variable RACEC contains one or many race code values in a concatenated string. The variable RACE contains the original race code value after decoding the concatenated string value of RACEC variable. To maintain consistency with legacy race data, multiple races are coded as 'Other/Multiple' race.

TYPE2728: This Form is used as: Initial, Re-entitlement, or Supplemental.

PDIS: New primary diagnosis codes have been added. A full list is in a PDF of the new form on 2nd CD of the Core CD set.

Comorbid conditions: New conditions have been added and others expanded.

COMORBID (17.) Concatenates the patients comorbidity factors

COMO_CHF (17.a) Comorbid A: Congestive heart failure.

COMO_ASHD (17.b) Comorbid B: Atherosclerotic heart disease ASHD.

COMO_OTHCARD (17.c) Comorbid C: Other cardiac disease.

COMO_CVATIA (17.d) Comorbid D: Cerebrovascular disease, CVA, TIA*.

COMO_PVD (17.e) Comorbid E: Peripheral vascular disease*.

COMO_HTN (17.f) Comorbid F: History of hypertension.

COMO_AMP (17.g) Comorbid G: Amputation.

COMO_DM_INS (17.h) Comorbid H: Diabetes, currently on insulin.

COMO_DM_ORAL (17.i) Comorbid I: Diabetes, on oral medications.

COMO_DM_NOMEDS (17.j) Comorbid J: Diabetes, without medications.

COMO_DM_RET (17.k) Comorbid K: Diabetic retinopathy.

COMO_COPD (17.l) Comorbid L: Chronic obstructive pulmonary disease.

COMO_TOBAC (17.m) Comorbid M: Tobacco use (current smoker).

COMO_CANC (17.n) Comorbid N: Malignant neoplasm, cancer.

COMO_TOXNEPH (17.o) Comorbid O: Toxic nephropathy.

COMO_ALCHO (17.p) Comorbid P: Alcohol dependence.

COMO_DRUG (17.q) Comorbid Q: Drug dependence*.

COMO_INAMB (17.r) Comorbid R: Inability to ambulate.

COMO_INTRANS (17.s) Comorbid S: Inability to transfer.

COMO_NEEDASST (17.t) Comorbid T: Needs assistance with daily activities.

COMO_INST (17.u) Comorbid U: Institutionalized.

COMO_INST_AL (17.u1) Comorbid U1: Institutionalized - Assisted Living.

COMO_INST_NURS (17.u2) Comorbid U2: Institutionalized - Nursing Home.

COMO_INST_OTH (17.u3) Comorbid U3: Institutionalized - Other Institution.

COMO_NRC (17.v) Comorbid V: Non-renal congenital abnormality.

COMO_NONE (17.w) Comorbid W: None.

Before ESRD therapy: Data on nephrologists care, diet care, and access type have been added.

EPO (18.a) Erythropoietin(EPO) was administered before dialysis or transplant.

EPORANGE (18.a.1) Did patient receive EPO or equivalent? If Yes, 6-12 or >12 months?

NEPHCARE (18.b) Was patient under care of a nephrologist?

NEPHCARERANGE (18.b.1) Was patient under care of a nephrologist? If Yes, 6-12 or >12 months?

DIETCARE (18.c) Was patient under care of kidney dietitian?

DIETCARERANGE (18.c.1) Was patient under care of kidney dietitian? If Yes, 6-12 or >12 months?

ACCESSTYPE (18.d) What access was used on first outpatient dialysis?

AVFMATURING (18.d.1) If not AVF, then: Is maturing AVF present?

AVGMATURING (18.d.2) If not AVF, then: Is maturing graft present?

Laboratory values: Hematocrit, creatine clearance, BUN, and urea clearance test results are no longer collected; HbA1c and lipid profile have been added.

ALBUM (19.a.1) Serum albumin value (g/dL).

ALBUMDT (19.a.1.1) Serum albumin date

ALBUMLM (19.a.2) Serum albumin lower limit value

LABMETHOD (19.a.3) Serum albumin lower limit: Lab method used (BCG or BCP)

SERCR (19.b) Serum creatine value (mg/dL).

SERCRDT (19.b.1) Serum creatine date.

HEGLB (19.c) Hemoglobin value (g/dL).

HEGLBDT (19.c.1) Hemoglobin date.

HBA1C (19.d) HbA1c value (%)

HBA1CDATE (19.d.1) HbA1c date

LIPIDPROFILETC (19.e.1) Lipid profile TC value (mg/dL)

LIPIDPROFILETCDATE (19.e.1.1) Lipid profile TC date

LIPIDPROFILLDL (19.e.2) Lipid profile LDL value (mg/dL)

LIPIDPROFILELDLDATE (19.e.2.1) Lipid profile LDL Date

LIPIDPROFILHDL (19.e.3) Lipid profile HDL value (mg/dL)

LIPIDPROFILEHDLDATE (19.e.3.1) Lipid profile HDL date

LIPIDPROFILETG (19.e.4) Lipid profile TG value (mg/dL)

LIPIDPROFILETGDATE (19.e.4.1) Lipid profile TG date

Other new variables:

DONORTYPE (35.) Type of donor

PATINFORMED (26.) Has patient been informed of kidney transplant options?

PATNOTINFORMEDREASON (27.) Concatenates reason patient was NOT informed of transplant options

PATTXOP_MEDUNFIT __ (27.) Patient NOT informed of TX options: Medically unfit

PATTXOP_OTHER (27.) Patient NOT informed of TX options: Other

PATTXOP_DECLINE (27.) Patient NOT informed of TX options: Patient declines information

PATTXOP_UNASSESSSED (27.) Patient NOT informed of TX options: Patient has not been assessed

PATTXOP_PHYSUNFIT (27.) Patient NOT informed of TX options: Psychologically unfit

PATTXOP_UNsutAGE (27.) Patient NOT informed of TX options: Unsuitable due to age

SUB_CODE (CMS) Sub race code as assigned by each Network.

WHAT'S NEW IN TX FILE:

New Variables:

TRR_ID - Transplant Recipient Registration Form PRIMARY RECORD KEY

DHISP - Donor Hispanic Ethnicity

RHISP - Recipient Hispanic Ethnicity

DONREL - Relationship between Living Donor and Recipient

Dropped Variables (replaced by DONREL):

DONREL_U

DONREL_O

DONREL_P

New Format:

LD_REL (Numeric Value)

1 PARENT

2 CHILD

3 ID TWIN

4 FULL SIBL

5 HALF SIBL

6 OTHER REL

7 SPOUSE

9 OTHER UNRELATED

10 LIVING/DECEASED EXCHANGE

998 UNKNOWN

Update Format:

ETHFMT (Character Value)

1 = 'Hispanic'

2 = 'Non Hispanic'

3 = 'Unknown'

WHAT'S NEW IN WAITLIST_KI FILE:

New Variables:

TRR_ID - Transplant Recipient Registration Form PRIMARY RECORD KEY

WAIT_STAT - Waitlist Status (A = Active R = Removed)

ON_EXPAND_DONOR - Accept Local Expanded Criteria Donor (ECD) Kidney

ON_IEXPAND_DONOR - Accept Imported Expanded Criteria Donor (ECD) Kidney

WHAT'S NEW IN WAITLIST_KP FILE:

New Variables:

TRR_ID - Transplant Recipient Registration Form PRIMARY RECORD KEY

WAIT_STAT - Waitlist Status (A = Active R = Removed)

ON_EXPAND_DONOR - Accept Local Expanded Criteria Donor (ECD) Kidney

ON_IEXPAND_DONOR - Accept Imported Expanded Criteria Donor (ECD) Kidney

WHAT'S NEW IN TXIRUNOS AND TXIFUNOS FILES:

Update Format:

DRUG (Numeric Value)

52 = 'Rituximab'

WHAT'S NEW IN TXUNOS_KI AND TXUNOS_KP FILES:

New Variable:

PROVUSRD - USRDS Assigned Facility ID

Dropped Variables:

PROVIDER_NUM

LABCTRNO

USRDS_TXPRV_ID

WHAT'S NEW IN TXFUUNOS_KI AND TXFUUNOS_KP FILES:

New Variable:

PROVUSRD - USRDS Assigned Facility ID

Dropped Variables:

USRDS_TXPRV_ID

USRDS_FUPRV_ID

Note: Before 2003, UNOS used one file to store kidney and kidney/pancreas recipient registration worksheet data and one file to store kidney and kidney/pancreas recipient follow up worksheet data. Starting in 2003, UNOS separates these two recipient data groups. However, UNOS did not move the previous kidney/pancreas recipient data into the proper new files. Users who need kidney/pancreas recipient longitudinal data should use TRR_ID and merge records from TXFUUNOS_KP with TXUNOS_KI and TXFUUNOS_KI to pick up all legacy kidney/pancreas records.

Year-to-Year Comparison of Number of Records in USRDS Standard Analysis Files (SAF)

SAF	2000	2001	2002	2003	2004	2005	2006	2007
PATIENTS	1,090,121	1,158,891	1,270,001	1,367,309	1,516,251	1,600,693	1,698,706	1,801,298
RESIDENC	1,511,564	1,680,216	1,786,251	2,006,657	2,215,953	2,388,928	2,587,007	2,791,903
MEDEVID	384,474	461,354	564,305	669,587	786,297	896,447	1,164,686	1,349,921 [†]
RXHIST	3,553,830	4,619,179	7,946,100	9,745,224	10,630,350	10,733,455	11,658,208	12,533,612
FACILITY	38,987	42,830	46,853	51,038	55,547	60,138	64,870	69,764
TX	186,765	206,750	226,398	245,821	256,315	272,277	289,533	308,002
TXWAIT	153,447	167,743	214,190	243,651	313,446*	347,564*	378,262*	405,165*

*TXWAIT is the total number of observations between Waitlist_ki and Waitlist_kp.

†MEDEVID is the total number of observations between Medevide95 and Medevide05.

Getting Started



INTRODUCTION

Work on a typical study consists of determining the study variables, selecting the variables from the datasets in which they are stored, merging the selected variables into one or more datasets for analysis, and finally performing the statistical analyses of the data. This section offers first-time users of the USRDS SAF datasets examples of this process.

All USRDS data are stored in SAS datasets that were created in the Windows environment and can be used only on the Windows operating system. Using the datasets on another computer platform requires moving and converting the data to SAS datasets for that platform. Using another data analysis system requires a conversion to a format compatible with that system.

The examples use basic SAS code. New SAS users should take classes, consult colleagues, or otherwise become familiar with the SAS system. Regardless of SAS experience, all users must know:

- ◆ The location of the SAS dataset.
- ◆ The location of the SAS catalog of FORMATS.

In the examples, the datasets and the FORMAT catalog are assumed to be in the same directory, namely, C:\SAF. Two SAS statements are needed to point to this information:

```
LIBNAME saf 'c:\saf'; * Directory location of the data;  
LIBNAME LIBRARY 'c:\saf'; * Directory location of format catalog;
```

Always assume that these two statements are required in all code. See *Data Formatting*, page 197, for additional information. The datasets and the format catalog may be in different directories.

BASIC SAS USE

The SAS CONTENTS procedure generates a list of all variables in the dataset and a label associated with each. The information in this label is usually an adequate indication of whether the variable will be of use; however, PROC CONTENTS is always the best method for obtaining the latest variable list, as last minute updates may not be reflected in the printed documentation. (See *Data Descriptions*, page 61.)

Note: In the following program examples, SAS keywords are in uppercase text. Datasets, comments, and variables in which SAS will perform operations are in lowercase text.

To determine the contents of the PATIENTS dataset, or any dataset, use the following code (remember the requirement of the two LIBNAMES):

```
PROC CONTENTS DATA=saf.patients;  
  TITLE1 'DATASET: saf.patients';  
RUN;
```

To see what the data look like, use the SAS procedure PRINT to list all observations of the dataset.

```
PROC PRINT data=saf.patients;  
  TITLE1 'DATASET: saf.patients';  
RUN;
```

A dataset can have thousands of observations. To print the first 500, use the following code:

```
PROC PRINT DATA=saf.patients (OBS=500);  
  TITLE1 'DATASET: saf.patients';  
RUN;
```

To print a group of observations other than the first N observations, use the following code; this example prints observations 1500-2000, inclusive.

```
PROC PRINT DATA=saf.patients (FIRSTOBS=1500 OBS=2000);  
  TITLE1 'DATASET: saf.patients';  
RUN;
```

A dataset can contain hundreds of variables. Print selected variables using the 'VAR' statement:

```
PROC PRINT DATA=saf.patients (OBS=500);  
  VAR usrds_id sex race incyear;  
  TITLE1 'DATASET: saf.patients';  
RUN;
```

There are two parts to the 'data=' expression. The first is the directory location, defined by the LIBNAME, and the second is the dataset name. The first part (directory location) implies that the dataset is permanent. Later examples do not include this part, and the datasets you create will disappear when you leave SAS. To permanently save a dataset, the first part of the expression must be included.

SAS FORMATS FOR USRDS DATA

Information in a dataset may be coded. Thus, the variable GENDER may have the values F, M, or U, where F is the coded value for female, M is the value for male, and U is the value for unknown. Using one character instead of several saves disk storage, but because the coded values are not always easy for users to understand, a format is assigned to translate them. Many variables have been assigned formats by the USRDS.

In each program, SAS must be told where these formats are. Assume that the format catalog is in the directory C:\SAF. Then the following SAS LIBNAME makes the formats accessible to your SAS programs.

```
LIBNAME LIBRARY 'c:\saf'; * Directory location of format catalog;
```

The SAS keyword LIBRARY must be used because it tells SAS to look for formats in the directory, C:\SAF. Other methods can accomplish this, but not as easily. To bypass the use of formats, use the following two SAS statements before running any SAS procedures:

```
LIBNAME LIBRARY;  
OPTIONS NOFMterr
```

Bypassing the use of formats allows you to see raw data instead of the formatted values, which may be useful when you need to write SAS IF statements to control the flow of your program in a SAS data step. See *Data Formatting* for a tabular list of the formats with their coded values.

COMMENT LINES

Comment lines in the SAS code look like this:

```
/* Comment line */  
* Comment line;
```

These refer to any descriptive comment. The use of comments is optional but strongly recommended.

THE SAF DIRECTORY

Throughout this section SAF has been used as the permanent SAS LIBNAME. It is assumed that all of the USRDS SAF datasets and catalogs have been placed in this directory. If the datasets have been placed in the WINDOWS directory C:\SAF, then the following SAS LIBNAME would point to the SAF datasets.

```
LIBNAME saf 'c:\saf';
```

Note: The datasets may be loaded into any directory, with the directory in the LIBNAME changed accordingly.

```
LIBNAME core_cd 'C:\USRDS\CORE_CD\SAF';  
LIBNAME hosp_cd 'C:\USRDS\HOSP_CD\SAF';  
LIBNAME in_cd 'C:\USRDS\IN\SAF';  
LIBNAME cpm_cd 'C:\USRDS\CPM\SAF';  
LIBNAME library 'C:\USRDS\CORE_CD\SAF';
```

EXAMPLES

EXAMPLE 1: INCIDENT COHORT

Create a patient cohort of incident patients from 1990 to 1999 to use in the examples that follow.

```
DATA inc90_99 (KEEP=usrds_id esrddate inc_year rxgroup);  
  SET core_cd.rxhist60;  
  BY usrds_id begdate;  
  
  FORMAT esrddate MMDDYY10.;  
  
  IF (FIRST.usrds_id) AND  
  (MDY(1,1,1990) <= begdate <= MDY(12,31,1999));  
  
  esrddate = begdate;
```

```

inc_year = YEAR(esrddate);
RUN;

PROC FREQ DATA=inc90_99;
TABLES inc_year;
TITLE 'Frequency Distribution of Incident Patients 1990 - 1999: Rxhist60 file';
RUN;

PROC FREQ DATA=inc90_99;
TABLE inc_year * rxgroup;
TITLE 'Frequency Distribution of Incident Patients 90-99 by Modality';
RUN;

```

EXAMPLE 2: INCIDENT PATIENTS DISTRIBUTION BY DEMOGRAPHIC DATA

```

PROC FREQ DATA=core_cd.patients;
TABLE incagec sex race disgrp;
WHERE (incyear = 1999);
TITLE 'Frequency Distribution of 1999 Incident Patients by Demographic Data';
RUN;

```

EXAMPLE 3: POINT PREVALENT COHORT

Create a patient cohort of point prevalent dialysis patients who were alive on January 1, 1999.

```

DATA pre_99 (KEEP=usrds_id rxgroup);
    SET core_cd.rxhist60;
        BY usrds_id begdate;

    IF (begdate <= MDY(1,1,1999)) AND
        ((enddate = .) OR (enddate >= MDY(1,1,1999))) AND
            (rxgroup NOT IN ('D','X')) THEN
        OUTPUT;
RUN;

PROC FREQ DATA=pre_99;
TABLE rxgroup;
TITLE 'Frequency Distribution of 1-1-99 Point Prevalent Patients by Modality';
RUN;

```

EXAMPLE 4: 1995 INCIDENT PATIENT SURVIVAL RATES (KAPLAN MEIER)

Calculate 5-year survival rates of 1995 incident dialysis patients using Kaplan Meier method.

```

DATA inc_95_s;
    MERGE inc90_99          (IN = x1)
          core_cd.patients (IN = x2 KEEP=usrds_id died tx1date);
        BY usrds_id;

    IF x1 AND x2;

    * Extract only 1995 incident dialysis patients.;
    IF (inc_year = 1995) AND (rxgroup ^= 'T');

    * Calculate the survival time (in month) of each incident patient.;
    t = (MIN(died, tx1date, MDY(12,31,1999)) - esrddate + 1) / 30.4375;
    IF (t < 0) THEN t = 0;

    * Determine whether the patient is censored.;
    c = (MIN(died, tx1date, MDY(12,31,1999)) = died);
RUN;

```

```

PROC LIFETEST DATA=inc_95_s METHOD=KM NOTABLE PLOTS=(s) OUTSURV=surv95;
TIME t*c(0);
TITLE '1995 Incident Dialysis Patients 5-Year Survival Rates';
RUN;

```

EXAMPLE 5: MERGE WITH MEDICAL EVIDENCE FILE (CMS 2728)

Demonstrate a way to extract comorbid conditions for a pre-defined study cohort from the Medical Evidence file.

```

DATA medevid;
    SET core_cd.medevid (KEEP=usrds_id cancer cararr carfail
                        cva diabins diabprim dysrhyt hyper ihd
                        mi pulmon pvasc);
    BY usrds_id;

    IF (FIRST.usrds_id);
RUN;

DATA me_2728;
    MERGE medevid      (IN=x1)
          core_cd.patients (IN=x2 KEEP=usrds_id died tx1date);
    BY usrds_id;

    IF x1 AND x2;
RUN;

DATA inc98_me;
    MERGE inc90_99 (IN=x1 WHERE=(inc_year = 1998))
          me_2728 (IN=x2);
    BY usrds_id;

    IF x1 AND x2;
RUN;

```

EXAMPLE 6 : 1998 INCIDENT PATIENT SURVIVAL RATES (KAPLAN MEIER)

Show a survival rate calculation stratified by patient comorbid condition.

```

DATA inc_98_s;
    SET inc98_me;
    BY usrds_id;

    IF (UPCASE(cancer) IN ('1' '2' 'Y' 'N'));

    IF (UPCASE(cancer) IN ('1' 'Y')) THEN
        can = 1;
    ELSE
        can = 0;

    * Calculate the survival time (in month) of each incident patient.;
    t = (MIN(died, MDY(12,31,1999)) - esrddate + 1) / 30.4375;
    IF (t < 0) THEN t = 0;

    * Determine whether the patient is censored.;
    c = (MIN(died, MDY(12,31,1999)) = died);
RUN;

PROC LIFETEST DATA=inc_98_s METHOD=KM NOTABLE PLOTS=(s) OUTSURV=surv98;
TIME t*c(0);
STRATA can;

```

```
TITLE '1998 Incident Dialysis Patients 2-Year Survival Rates by co-morbidity';
RUN;
```

EXAMPLE 7: WAITLIST ACCESS RATE

Determine waitlist access rate to December 31, 1999, of 1998 incident dialysis patients who were registered in the transplant waitlist.

```
DATA txwait;
    set core_cd.waitseq_ki core_cd.waitseq_kp;
run;

PROC SORT data=txwait;
    by usrds_id;
RUN;

DATA inc_98_w;
    MERGE inc98_me      (IN=x1)
          txwait (IN=x2 KEEP=usrds_id begin);
          BY usrds_id;

    IF x1;

    * Extract only 1998 incident dialysis patients.;
    IF (rxgroup ^= 'T');

    * Make sure all dialysis patients who were not put on the waitlist;
    * get to be censored at the end of follow-up period.;
    IF x1 AND ^x2 THEN begin = MDY(1,1,2000);

    * Calculate the waitlist access time (in month) of each incident patient.;
    t = (MIN(begin, died, MDY(12,31,1999)) - esrddate + 1) / 30.4375;
    IF (t < 0) THEN t = 0;

    * Determine whether the patient is censored.;
    c = (MIN(begin, died, MDY(12,31,1999)) = begin);
RUN;

PROC LIFETEST DATA=inc_98_w METHOD=KM NOTABLE PLOTS=(s) OUTSURV=wait98;
TIME t*c(0);
TITLE '1998 Incident Dialysis Patients Waitlist Access Rates';
RUN;
```

EXAMPLE 8: TOTAL ADMISSION RATE

Create the patient driver for hospitalization rates, or use previously created file.

```
DATA driver;
    SET core_cd.patients (WHERE=(incyear=1998));

    sfu = first_se + 91;
    efu = MIN(died, first_se+455);

    IF (died NE .) AND (died < sfu) THEN DELETE;
    FORMAT sfu efu MMDDYY10.;
RUN;
PROC SORT DATA=driver;
    BY usrds_id;
RUN;
```

Link to hospitalization file; gather hospitalizations within period of interest (includes only patients with hospitalizations).

```
PROC SQL;
    CREATE TABLE hospdat AS
    SELECT * FROM driver a, hosp_cd.hosp (KEEP=usrds_id clm_from clm_thru) b
    WHERE a.usrds_id=b.usrds_id AND a.sfu<=clm_thru AND a.efu>=b.clm_from;
QUIT;

PROC SORT DATA=hospdat;
    BY usrds_id clm_from clm_thru;
RUN;

DATA rate;
    SET hospdat;
    BY usrds_id;

    RETAIN n_hos n_adm exptime rt_adm;

    IF FIRST.usrds_id THEN
    DO;          /* INITIALIZE RETAIN VARIABLES FOR EACH USRDS_ID */
        n_hos=0;
        n_adm=0;
        exptime=0;
        rt_adm=0;
    END;

    * FOR HOSPITALIZATIONS OVERLAPPING STUDY START ONLY COUNT;
    * HOSPITAL DAYS, NOT AS ADMISSION;
    IF (clm_from<sfu<=clm_thru) THEN n_hos=n_hos+(MIN(clm_thru,efu)-sfu+1);

    * IF WITHIN STUDY PERIOD COUNT DAYS (UP TO STUDY END) AND
    * ADMISSIONS;
    ELSE IF (sfu<=clm_from<=efu) THEN
    DO;
        n_hos=n_hos+(MIN(clm_thru,efu)-clm_from);
        n_adm=n_adm+1;
    END;

    IF LAST.usrds_id THEN          /* OUTPUT ONE RECORD PER USRDS_ID */
    DO;
        exptime=(efu-sfu-n_hos)/365;
        IF exptime>0 then rt_adm=n_adm*1000/exptime;
        ELSE IF (exptime<0) THEN exptime=0;
        OUTPUT;
    END;
RUN;
```

Combine result with original incident sample to include patients without hospitalizations.

```
DATA rateall;
    MERGE driver (IN=x1) rate (IN=x2);
    BY usrds_id;

    IF x2=0 THEN
    DO;
        n_hos=0;
        n_adm=0;
        rt_adm=0;
        exptime=(efu-sfu+1)/365;
    END;
```

```

        IF x1 THEN OUTPUT;
RUN;

```

Calculate mean admissions per 1000 patient-years by gender.

```

PROC TABULATE DATA=rateall;
VAR rt_adm;
CLASS sex;
WEIGHT exptime;
TABLE sex="*rt_adm="*mean*f=8.1;
KEYLABEL mean="";
TITLE1 'Total Admission rates per 1,000 patient years';
RUN;

```

EXAMPLE 9: FIRST ADMISSION RATE

Using hospitalization data from above, calculate first hospitalization rates.

```

DATA frate;
    SET hospdat;
        BY usrds_id;

    RETAIN n_adm exptime rt_adm flag;

    IF FIRST.usrds_id THEN
    DO;                /* INITIALIZE RETAIN VARIABLES FOR EACH USRDS_ID */
        n_adm=0;
        exptime=0;
        rt_adm=0;
        flag=0;
    END;

    * FOR HOSPITALIZATIONS OVERLAPPING STUDY START SET EXPOSURE
    * TIME TO ZERO TO EXCLUDE FROM RATE;
    IF (clm_from<=sfu<=clm_thru) THEN
    DO;
        exptime=0;
        flag=1;
    END;

    * IF WITHIN STUDY PERIOD COUNT ADMISSION AND CALCULATE
    * EXPOSURE TIME;
    ELSE IF (sfu<clm_from<=efu) AND flag=0 THEN
    DO;
        exptime=(clm_from-sfu+1)/365;
        n_adm=n_adm+1;
        flag=1;
    END;

    IF LAST.usrds_id THEN /* OUTPUT ONE RECORD PER USRDS_ID */
    DO;
        IF exptime>0 then rt_fadm=n_adm*1000/exptime;
        OUTPUT;
    END;
RUN;

```

Combine result with original indicent sample to include patients without hospitalizations.

```

DATA frateall;
    MERGE driver (IN=x1) frate (IN=x2);

```



```

        BY usrds_id;

    IF x2=0 THEN
    DO;
        n_adm=0;
        rt_fadm=0;
        exptime=(efu-sfu+1)/365;
    END;
    IF x1 THEN OUTPUT;
RUN;

```

Calculate mean admissions per 1000 patient-years by gender.

```

PROC TABULATE DATA=frateall;
VAR rt_fadm;
CLASS sex;
WEIGHT exptime;
TABLE sex="*rt_fadm="*mean*f=8.1;
KEYLABEL mean="";
TITLE1 'First Admission rates per 1,000 patient years';
RUN;

```

EXAMPLE 10: CREATE A PATIENT COHORT OF 1998 MEDICARE INCIDENT PATIENTS

Create the 1998 incident patient file.

```

DATA inc_98;
    SET core_cd.patients (WHERE=(incyear=1998));
RUN;

```

Find Medicare payer status at first service date;

```

DATA first_payer;
    SET core_cd.payhist;
    BY usrds_id begdate;
    IF first.usrds_id;
RUN;

```

Combine payer information with original incident cohort and limit to patients with Medicare payers at first service date;

```

PROC SORT DATA=inc_98;
    BY usrds_id;
RUN;
DATA medicare_inc_98;
    MERGE inc_98      (IN=x1)
          first_payer (IN=x2 KEEP=usrds_id mcare payer dualelig);
    BY usrds_id;
    IF x1 AND mcare = 'Y';
RUN;

```


Sections 1-9



SECTION 1 • ESRD DATA AND THE USRDS DATABASE SYSTEM

The main objective of the USRDS CC is to use all relevant ESRD data to create an integrated and consistent database system for outcomes research. The CC database includes ESRD patient demographic and diagnosis data, biochemical values, dialysis claims, and information on treatment history, hospitalization events, and physician/supplier services.

DATA SOURCES

The data used by the USRDS CC originates from CMS, UNOS, the CDC, the ESRD Networks, and the USRDS special studies.

PMMIS/REBUS/REMIS Database System

The major source of ESRD patient information for the USRDS is the CMS Renal Beneficiary and Utilization System (REBUS), which was adopted in 1995 as the On-Line Transaction Processing (OLTP) system from its predecessor, the Program Management and Medical Information System (PMMIS) database. The PMMIS/REBUS database contains demographic, diagnosis, and treatment history information for all Medicare beneficiaries with ESRD. The database has been expanded to include non-Medicare patients, as discussed below.

Having advanced its database technology, CMS transformed the REBUS database into an Oracle relational database system, called the Renal Management Information System (REMIS), in the fall of 2003. This database included all patients who were alive and had ESRD as of January 1, 1995, or were incident after this date. This approach was adopted from the Networks' Standard Information Management System (SIMS) database creation procedure. However, because the REMIS system as it existed did not include legacy patients for longitudinal studies, CMS expanded it in the fall of 2004 to include all ESRD patients.

CMS regularly updates the PMMIS/REBUS/REMIS database, using the Medicare Enrollment Database (EDB), Medicare inpatient and outpatient claims, the UNOS transplant database, the ESRD Medical Evidence Report (CMS-2728) provided by the ESRD Networks, the ESRD Death Notification (CMS-2746) obtained from renal providers, and the ESRD Networks' SIMS database. CMS has established data integrity rules to ensure accurate identification of patients in the SIMS and CMS databases. Each ESRD patient (new and old) is identified with a unique patient identification number common to both databases, guaranteeing that data on all patients are consistently managed over time.

Standard Information Management System (SIMS) Database

The USRDS CC continues to collaborate with CMS and the ESRD Networks to address data-tracking issues relating to non-Medicare ESRD patients. Working solely with data from the Medical Evidence Report, the CC could establish the first ESRD service data for these patients, but could not generate a detailed treatment history in a consistent manner. The integration of the SIMS event data into the CC database, however, allows for the examination of issues that arise in the non-Medicare ESRD population, such as the large and

growing number of lost-to-follow-up patients, and for the gathering of data on patients for whom no data were previously available on initial modality or death.

CMS Medical Evidence Report (Form CMS-2728)

The CMS Medical Evidence Report is completed by the renal provider for each new ESRD patient, and is sent to CMS through the ESRD Networks. It serves to establish Medicare eligibility for individuals who previously were not Medicare beneficiaries, reclassify previously eligible Medicare beneficiaries as ESRD patients, and provide demographic and diagnostic information on all new ESRD patients regardless of Medicare entitlement.

Before 1995, dialysis units and transplant centers were required to file the Medical Evidence Report only for Medicare-eligible patients. With the adoption of the form revised in 1995, however, providers were required to complete the form for all new ESRD patients regardless of Medicare eligibility status. The 1995 form also contained new fields for comorbid conditions, employment status, expanded race categories, ethnicity, and biochemical data at the start of ESRD.

While only one Medical Evidence Report is expected for each ESRD patient for the entire ESRD treatment period, multiple forms may be filed for patients with multiple insurance eligibility switches caused by therapy changes. For example, Medicare will drop ESRD benefits for a transplant patient whose graft is still functioning after three years if ESRD has been the patient's sole qualification for Medicare eligibility. If this patient has a graft failure and subsequently returns to dialysis, a second Medical Evidence form must be filed to re-establish Medicare eligibility. As another example, a dialysis patient who stops dialysis for more than twelve months, resulting in the termination of Medicare ESRD benefits, and who returns to dialysis or receives a kidney transplant, generates a second Medical Evidence form to resume receiving Medicare benefits.

Revised Medical Evidence Report (Form CMS-2728)

Another revision of the Medical Evidence Report was introduced in May 2005. It includes new data collection methods and new variables. It allows users to specify if the form is for initial (new ESRD patient), re-entitlement (reinstating Medicare entitlement after not filing claims for 12 or more months or having a functioning graft for 36 or more months), and supplemental (updating missing or incorrect information) registration. This will clarify the intended use of the form without relying on the "First Regular Dialysis Start Date," and will help chronicle the historical sequence when multiple forms are submitted.

Patients can now check multiple races. CMS provides a single variable containing a concatenated string representing all selected race codes with binary digits (0s and 1s). This string must be decoded to determine patient race (or races). Similar formatting requirements apply to information on comorbid conditions, medical coverage, and reasons for patients not being informed of transplant options. Because the required programming is substantial, we include, for each of these four patient data categories, the original variable with the concatenated string and a new variable with the decoded

values (i.e., information noted on form CMS-2728). However, the decoded multiple race values must be presented as “Other” or “Multiple race” to maintain consistency with the legacy race information.

Data on nephrologist care, diet care, and access type have also been added to the new form, with the respective time interval relative to ESRD onset. The laboratory values hematocrit, creatinine clearance, BUN, and urea clearance are no longer collected. Added laboratory values include HbA1c and lipid profiles such as TC, LDL and HDL cholesterol, and TG. Additional questions relate to whether patients were informed of transplant options and if not the reason, and donor type. Comorbid conditions and primary diagnoses have also been added. Please see ‘What’s New’ (page 5) for a detailed description of new and dropped variables. Both the 2005 and 1995 versions of the forms are provided on the USRDS Core SAF data set and are also available for download in PDF format from the USRDS website: <http://www.usrds.org/reference.htm>.

CMS ESRD Death Notification (Form CMS-2746)

Like the Medical Evidence Report, the Death Notification Form is data rich, and its completion by renal providers is enforced by CMS. Providers usually have 45 days to report ESRD death events to their respective ESRD Networks, providing information about the place, time, and cause of death. Data are thus available to the USRDS Coordinating Center to conduct research on cause-specific mortality outcomes.

CMS Medicare Enrollment Database (EDB)

The CMS Enrollment Database is the designated repository of all Medicare beneficiary enrollment and entitlement data, including current and historical information on beneficiary residence, Medicare as Secondary Payer (MSP) status, and Health Insurance Claim/Beneficiary Identification Code (HIC/BIC) cross-referencing.

CMS Paid Claims Records

Inpatient transplant and outpatient dialysis claims records are sometimes used to identify new ESRD patients for whom no Medical Evidence Report has been filed. These patients, who are most likely to be non-Medicare patients or beneficiaries who develop ESRD while already on Medicare because of old age or disability, will eventually be entered into the PMMIS/REBUS database, and hence the USRDS database, through the claims records. For patients without Medical Evidence records, these claims are the only reliable information from which to determine first service dates for ESRD. These paid claims records, however, are only a supplement to, not a replacement of, other sources of information on incidence and prevalence.

It is important to note that some Medicare eligible patients may not have bills submitted to and paid by Medicare, including MSP patients covered by private insurance, HMOs, Medicaid, or the Department of Veterans Affairs (DVA).

UNOS Transplant Database

CMS began collecting data on all Medicare kidney transplants in the early 1980s. In 1988, UNOS was created to provide a national system for allocating donor organs and to maintain a

centralized data depository on organ transplantation. UNOS also began collecting data on all transplants. Subsequently, these two collection efforts were consolidated in 1994, and UNOS became the sole source on transplant donors and recipients.

The CMS and UNOS transplant data files overlap for 1988–1993, and some patients with Medical Evidence Reports indicating transplant as the initial modality are not included in either file. To resolve the conflicts among these three sources, the USRDS has adopted the following procedure:

- ◆ Before 1988, all transplant events found in CMS PMMIS/REBUS Transplant files are used.
- ◆ After 1994, all transplant events found in the UNOS files are used.
- ◆ Between 1988 and 1993, all transplant events found in the UNOS files are used while additional transplant events are taken from the CMS PMMIS/REBUS Transplant file only if they occur at least 30 days either side of a previously accepted transplant event.
- ◆ Additionally, transplant events associated with the reported incident transplant patients from the Medical Evidence Report are taken if they also occur at least 30 days either side of a previously accepted transplant event.
- ◆ Each transplant event found in the Transplant file of the USRDS SAF Core CD is thus a unique event derived from the UNOS, CMS PMMIS/REBUS Transplant, and Medical Evidence record files.

CMS ESRD Standard Analytical Files (SAFs)

The CMS SAFs contain data from final action claims, submitted by Medicare beneficiaries, in which all adjustments have been resolved. For Part A institutional claims, the USRDS uses the following 100% SAF claims:

- ◆ Inpatient
- ◆ Outpatient
- ◆ Skilled nursing facility (SNF)
- ◆ Home health agency (HHA)
- ◆ Hospice

For Part-B physician/supplier 100% SAF claims:

- ◆ Physician/supplier
- ◆ Durable medical equipment (DME)

CMS SAFs are updated each quarter through June of the next year, when the annual files are finalized. Datasets for the current year are created six months into the year and updated quarterly until finalized at 18 months, after which files are frozen and will not include late arriving claims. Annual files are thus approximately 98% complete. The USRDS 2006 ADR includes all claims up to December 31, 2004. Patient-specific demographic and diagnosis information, however, includes data as recent as October 2005.

CMS 5% General Medicare SAFs

The 5% general Medicare SAFs have the same structure and data elements as the ESRD 100% SAFs, but they were extracted from the general Medicare billing database on a random sample of just 5% of the entire Medicare population. Because the sample is selected using the last two digits of patients' Social Security Numbers, one should expect to see the same group of Medicare beneficiaries represented in the 5% SAFs each year, with exceptions for death, disenrollment, and new Medicare entitlements.

The USRDS Coordinating Center uses these files to conduct studies on Healthy People 2010 objectives, comparing preventive care and other non-ESRD disease treatments in general Medicare and ESRD patients. In addition, these files are used to create DM/CKD/CHF cohort finder files.

Clinical Performance Measures Project (CPM)

CMS developed the ESRD CPM (formerly the ESRD Core Indicators Project) to collect information on the quality of care provided to dialysis patients. The data originate from surveys completed by primary care facilities, and focus on dialysis adequacy measures, anemia management, and vascular access use. Additional clinical parameters such as albumin are also available. These data have been collected annually since 1994, using a random sample of patients aged 18 years and older, alive and on dialysis at the end of each calendar year; on average, about 8500 in-center hemodialysis patients and 1500 peritoneal dialysis patients are surveyed each year. Data collection for all pediatric patients aged 12 to 17 years began in 2000, and in 2002 was expanded to all in-center hemodialysis patients aged younger than 18 years. Starting in 2005, all PD patients in the US have been sampled for the pediatric PD data collection. The USRDS CC, in collaboration with CMS, provides CPM/USRDS merged data to the general research community.

CMS Dialysis Facility Compare Data

The USRDS uses the CMS Dialysis Facility Compare data to define chain and ownership information for each renal facility; before the 2003 ADR, similar data were extracted from the Independent Renal Facility Cost Report (CMS 265-94).

CMS Annual Facility Survey (AFS)

In addition to the CMS ESRD databases, independent ESRD patient counts are available from the CMS Annual Facility Survey, which all Medicare-approved dialysis units and transplant centers are required to complete at the end of each calendar year. The AFS reports counts of patients being treated at the end of the year, new ESRD patients starting during the year, and patients who died during the year. Counts of Medicare and non-Medicare end-of-year patients are included. While AFS files do not carry patient-specific demographic and diagnosis information, they do provide independent patient counts used to complement the CMS patient-specific records.

CDC National Surveillance Data

From 1993-2002, the CDC used its National Surveillance of Dialysis-Associated Diseases in the United States to collect in-

formation from dialysis facilities on patient and staff counts, membrane types, reuse practices, water treatment methods, therapy types, vascular access use, antibiotic use, hepatitis vaccination and conversion rates (for both staff and patients), and the incidence of HIV, AIDS, and tuberculosis. None of the information is patient-specific. Because the CDC terminated this program in 2003, the last surveillance report is for 2002 data. The CDC did not conduct a survey in 1998.

Dialysis Morbidity and Mortality Study (DMMS)

The DMMS was an observational study in which data on demographics, comorbidity, laboratory values, treatment, socioeconomic factors, and insurance were collected for a random sample of US dialysis patients, using dialysis records. Data were collected on 6000 ESRD patients in each of Waves I, III, and IV, and 4500 patients in Wave II, a total of 22,500 patients over three years. Waves I, III, and IV are each historical prospective studies in which data were collected for patients receiving in-center hemodialysis on December 31, 1993. Data were abstracted from patient medical records, and each patient was followed from December 31, 1993, through the earliest of data abstraction, death, transplant, change in modality, or transfer to another facility. Wave II is a true prospective study of incident hemodialysis and peritoneal dialysis patients for 1996 and some incident patients entering the ESRD program in the first part of the 1997 calendar year.

Case Mix Adequacy Study

The objectives of the USRDS Case Mix Adequacy Study of Dialysis were to:

- ◆ establish the relationship between the dose of delivered dialysis therapy and mortality.
- ◆ determine the strength of this relationship when data are adjusted for comorbidity.
- ◆ assess how this relationship changes at different dialysis doses
- ◆ assess how this relationship is affected by dialyzer reuse.
- ◆ assess the impact of different dialysis membranes on patient morbidity and mortality.

The study consisted of two groups of patients: an incident sample of ESRD patients who began hemodialysis during 1990, and a prevalent sample of hemodialysis patients with onset of ESRD before 1990. A total of 7096 patients from 523 dialysis units were included, with approximately 3300 patients having the pre- and post-BUN values needed to calculate delivered dialysis dose. Ninety-four percent of these cases were matched to the USRDS database. The ESRD Networks collected these data in conjunction with their Medical Case Review data abstraction.

Case Mix Severity Study

The objectives of this study were to:

- ◆ estimate the correlation of comorbidity and other factors existing at the onset of ESRD to subsequent mortality and hospitalization rates, while adjusting for age, gender, race, and primary diagnosis

Appendix A
USRDS Products and Services



INTRODUCTION

Table A.1 describes the products and services provided by the USRDS to support ESRD research and the work of the renal community.

The entire ADR is available at www.usrds.org. The site also offers color slides of figures, a PDF file of the *Researcher's Guide*, and USRDS contact information. Through this site, users can create customized data sets and regional maps. Data regarding site use are presented in Figure A.1.

DIALYSIS UNIT-SPECIFIC SMR/SHR REPORTS

From 1996 through 1999, the USRDS produced more than 2300 unit-specific reports each year, compiling information about the patients treated in each dialysis facility, and including standardized mortality ratios and standardized hospitalization ratios. These reports are now produced by the Kidney Epidemiology and Cost Center at the University of Michigan (www.med.umich.edu/kidney).

DATA REQUESTS

Making information on ESRD available to the renal community is a primary objective of the USRDS, and the CC is committed to the timely fulfillment of data requests. Many of these requests can be fulfilled using data published in the ADR or elsewhere. The CC fulfills data requests that require two hours or less of staff time without charge, usually within one week. More complex requests that require more than two hours of staff time, and requests for Standard Analysis Files and custom files, must be accompanied by a written proposal (see Table A.1), and are fulfilled only upon written approval by the NIDDK Project Officer.

DATA FILES AVAILABLE TO RESEARCHERS

The CC maintains a set of Standard Analysis Files (SAFs) to meet diverse research needs and to provide easy access to the data used in the ADR. The SAFs were introduced in 1994, and at the same time NIDDK began awarding a new group of grants focusing on research using the USRDS data. The result has been an annual increase in the number of files provided by the USRDS.

Before 1994, all files provided to researchers were custom files created for a specific research project. Since the introduction of the SAFs, however, custom files are generally limited to cases in which a researcher provides a patient finder file to be matched with the USRDS database.

The Core SAF CD-ROM contains basic patient data and is needed to use any other SAF. It includes each patient's demographic information, treatment history, limited transplant data, and all data from the USRDS Special Studies. Approximately half of the researchers using the USRDS SAFs need only the Core CD. Detailed transplant and transplant follow-up information is provided on a separate CD containing data collected by CMS and UNOS. Hospital inpatient data are provided on the Hospital CD, and Medicare payment data are available either in a full set or by individual year (Table A.2).

STANDARD ANALYSIS FILES (SAFs)

Use of the SAFs is governed by the USRDS Policy on Data Release for Investigator-Initiated Research, described on page 42. Proposals must be approved by the USRDS Project Officer, and the researcher must sign the USRDS Agreement for Release of Data, reproduced on page 44. SAF prices are listed in Table A.3.

Most SAFs provide patient-specific data. All patient identifiers (name, address, Social Security number, etc.) are removed from the files or encrypted, but data confidentiality is nevertheless a serious concern. The Agreement for Release of Data therefore includes restrictions on the use and disposition of the SAFs. The SAFs include encrypted ID numbers to allow patient data from multiple SAFs to be merged when needed.

CORE CD

The USRDS has carried out a number of Special Studies. Topics are approved by the NIDDK, with recommendations from CMS, the USRDS Scientific Advisory Committee, the ESRD networks, and the Renal Community Council. For each study, design and sampling plans were developed, samples were selected, and data collection forms and instructions drafted, tested, and finalized. The main studies are summarized below.

The Core CD contains the most frequently used SAFs, including those from the USRDS Special Studies, and is needed for use of the Transplant CD, the Hospital CD, or any CD based on Medicare claims data. Core CD files are the following:

Patient (file name: PATIENTS)

Contains one record per patient in the USRDS database, and gives basic demographic and ESRD-related data.

Residence (file name: RESIDENC)

Provides a longitudinal record to the ZIP code level of each patient's place of residence.

Treatment history (file names: RXHIST and RXHIST60)

Also referred to as the Modality Sequence file; contains a new record for each patient at each change in treatment modality or dialysis provider.

Payer History (file name: PAYHIST)

Contains detailed longitudinal insurance payer information for each unique patient from the date of ESRD initiation.

Medical Evidence (file names: MEDEVID95, MEDEVID05, & MEDEVID)

The MEDEVID95 and MEDEVID05 files contain data from the 1995 and 2005 versions of the CMS End-Stage Renal Disease Medical Evidence Report (CMS-2728), respectively. The MEDEVID file combines data from both form versions with additional processing in code value conversions and consistency, specifically targeting common and similar data elements to ensure data integrity. All unique data elements on the original Medical Evidence Form (1987 version) were appropriately incorporated into other files, such as the 'Patients' and 'RXHIST' files on the Core CD, and are not included in the MEDEVID file. The 1995 version included data on comorbidity, employment status, lab values at start

of dialysis, and Hispanic ethnicity. The 2005 version added more information on treatment before starting renal replacement therapy, additional comorbid conditions, and type of vascular access used at initiation.

Transplant (file name: TX)

Contains basic data for all transplants, including graft failure date (detailed transplant data are contained on a separate transplant CD).

Transplant waiting list (file names: WAITLIST_KI and WAITLIST_KP)

Since the creation of the 2001 Core CD, basic patient demographic data and data on all unique wait-list periods for each patient appear in the transplant wait-list files. These files include one or more records for each patient wait-listed for

kidney (KI) or simultaneous kidney-pancreas (KP) transplants from the UNOS transplant wait-list, with each record representing a unique wait-list period.

Transplant waiting list sequence (file names: WAITSEQ_KI and WAITSEQ_KP)

These condensed files list unique waiting periods per patient per transplant center. They are the condensed waiting list date sequence files for kidney (KI) and simultaneous kidney-pancreas (KP) transplants. Both files are center-specific and therefore contain beginning and ending dates for each patient at each transplant center at which they are registered on the waiting list. Investigators who wish to investigate the raw UNOS kidney and simultaneous kidney-pancreas waiting list files can use WAITLIST_KI and WAITLIST_KP. Refer to Section 5, Transplant Process and Outcomes, for a more detailed description of the waiting list sequence files.

Table A.1 USRDS Products and Services for ESRD Researchers and the General Renal Community. Products are provided without charge except as noted.

Reports and Guides

Annual Data Reports	Available from the National Kidney and Urologic Disease Information Clearinghouse, 3 Information Way, Bethesda, MD 20892-3560, 301.654.4415, nkudic@info.niddk.nih.gov. Material from the ADR is also published in the American Journal of Kidney Disease.
ADR CD-ROM	Contains the text and graphics of the ADR, data tables, color PowerPoint® slides, and the <i>Researcher's Guide</i> .
<i>Researcher's Guide</i> to the USRDS Database	Provides a detailed description of the USRDS database and of the USRDS Standard Analysis Files, and is the basic reference for researchers who use USRDS data files.
www.usrds.org	Offers PDF files of ADR chapters, reference tables, and the <i>Researcher's Guide</i> ; PowerPoint® slides of atlas figures and USRDS conference presentations; Excel® files of the data tables; notices regarding current news and analyses; links to related Internet sites; and email addresses for contacting the USRDS.

RenDER

The USRDS Renal Data Extraction and Referencing (RenDER) System is a querying application that allows users to create data tables and interactive maps. It can be accessed at www.usrds.org/odr/xrender_home.asp following a short registration; a tutorial is available to help new users.

Requests for data

Two-hour data requests	Questions and data requests not addressed directly by the ADR can be addressed to the Coordinating Center; those requiring less than two hours of staff time to fulfill will be processed without charge.
Extensive data requests	Questions and data requests that require more than two hours of staff time must be submitted in writing and approved by the NIDDK Project Officer. Fulfillment of these requests is subject to staff availability, and costs are assessed on a case-by-case basis.
Standard Analysis Files	SAFs provide patient-specific data from the USRDS database to support ESRD research. A standard pricelist has been established for the files. Users must sign a Data Release Agreement with the NIDDK.
Custom data files	Custom files can be created by the Coordinating Center for projects requiring data not provided in the SAFs, at an hourly rate of \$103.97. Users must sign a data release agreement with the NIDDK.

Publications and presentations

Most USRDS research studies result in published papers or presentations at national meetings. Figures from these studies are on the website. Published abstracts and papers can be found in the relevant journals.

Contact information

Data requests and publication orders	USRDS Coordinating Center, 914 South 8th Street, Suite S-206, Minneapolis, MN 55404. Phone 612.347.7776 or 1.888.99USRDS, Fax 612.347.5878. www.usrds.org
Data file contact	Shu-Cheng Chen, MS, schen@usrds.org

Dialysis Mortality and Morbidity Special Study Waves 1-4 (File Name: DMMS)

Each wave includes a data collection instrument for collecting core data, allowing collection of a consistent set of fundamental data for research questions that require a large sample size.

Facility (file name: FACILITY)

The CMS ESRD Annual Facility Survey is the source of data for the Facility SAF, which can be linked to the Facility Cost Report files using the USRDS provider ID. Because of this link, geographic variables that could be used to identify facilities have been deleted. The survey period is January 1 through December 31.

Facility Cost Reports (file name: FCOSIND)

The CMS hospital and independent facility cost reports for the years 1989–1995 and 1989–1993 are available as Standard Analysis Files. All geographic variables have been deleted to ensure confidentiality. The file may be linked with the Facility SAF using the USRDS provider ID; geographic analyses at less than a regional or ESRD network level, however, are not possible. Because use of these files has been minimal, data for additional years will be added only if there is sufficient demand.

Dialyzers (file name: DIALYZER)

The Case Mix Severity, Case Mix Adequacy, and DMMS Special Studies all collected information on the manufacturer that must be matched to information in the Dialyzer file to identify the manufacturer and model and characteristics such as membrane type and clearance. The data in this file come from published sources available at the time of the study. We believe these data accurately represent the dialyzer characteristics, but they should be used with caution.

TRANSPLANT CDS

Detailed transplant data are available on the Transplant CDs.

KIDNEY TRANSPLANT-CMS (FILE NAME: TXHCFA)

Includes transplant information collected by the CMS PMMIS system before 1994.

Kidney Transplant-UNOS (File Names: TXUNOS_KI and TXUNOS_KP)

Includes information on kidney (KI) and kidney-pancreas (KP) transplants collected since 1987 by UNOS, the main source of transplant data for the USRDS.

Immunosuppression at Registration-UNOS (File Name: TXIRUNOS)

Includes information on immunosuppressive drugs; collected by UNOS at the time of transplantation events.

Kidney Transplant Followups-CMS (File Name: TXFUHCFA)

Includes transplant followup reports collected by CMS before 1994; reports are completed at discharge, at six months, each year post-transplant, and at graft failure.

Kidney Transplant Followups-UNOS (File Names: TXFUUNOS_KI and TXFUUNOS_KP)

Includes followup reports on kidney (KI) and kidney-pancreas (KP) transplants collected by UNOS since 1988.

Immunosuppression at Followup-UNOS (File Name: TXIFUNOS)

Includes information on immunosuppressive drugs collected by UNOS at followup visits.

HOSPITAL CD

Hospitalization inpatient data from the USRDS database are a subset of the data in the institutional claims file. This CD includes data on hospital inpatient stays and on diagnoses and procedures during those stays. It includes no payment or cost variables.

DIALYSIS MORBIDITY AND MORTALITY CD

This CD contains files from the Dialysis Morbidity and Mortality Study and extracted data from all other SAFs for the patients in this study. All data on Medicare payments for these patients are followed to the currently reported claims year.

CASE MIX ADEQUACY CD

This CD contains the Case Mix Adequacy Special Study file and extracted data from all other SAFs for the patients in this study. All data on Medicare payments for these patients are followed to the currently reported claims year. Along with analyses related to the study itself, this file is useful for developing analyses that will later be run on the full Medicare payments files.

MEDICARE CLAIMS PAYMENT CDS

Medicare payment data on institutional claims are available for the years indicated in Table A.3. These data sets can be purchased by individual year.

Institutional claims consist of all Part A claims (inpatient, outpatient, skilled nursing facility, home health agency, and hospice) and some Part B claims, notably outpatient dialysis. All physician/supplier claims are Medicare Part B; these are about 80 percent of the claims but account for only 20 percent of the dollars.

The structure and content of the two types of claims are different, as are the files derived from them. The Institutional claims file indicates the type of claim, the dollar amounts, the DRG code, the type of dialysis (if any), and the dates of service. The institutional claims detail file contains details such as diagnosis and procedure codes. Many analyses require only the institutional claims file. Physician/supplier claims files have one record for each claim line-item, showing dollar amounts, dates of service, diagnosis and procedure codes, and type and place of service.

Table A.2 Contents of the USRDS Core Standard Analysis File CD-ROM

This file is needed to use any other Standard Analysis File. The data are provided on four CDs.

File Name	Unit of Observation	Uses
Patient (PATIENTS)	One record for each ESRD patient.	Incidence, prevalence, patient survival. Most other files must link to this file using the encrypted patient ID.
Residence (RESIDENC)	One record for each patient for each period in a different residence.	Regional analyses.
Treatment History (RXHIST)	One record for each period on one modality. A patient may have many records.	Modality distribution and treatment patterns.
Pay History (PAYHIST)	One record for each period with one payer. A patient have many records.	Effect of insurance payer on clinical outcomes.
Medical Evidence (MEDEVID95)	One record for each CMS-2728 filed (1995 version).	ESRD first service date, initial treatment modality, comorbid conditions, patient status at start of ESRD.
Medical Evidence (MEDEVID05)	One record for each CMS-2728 filed (2005 version).	ESRD first service date, initial treatment modality, comorbid conditions, patient status at start of ESRD.
Transplant (TX)	One record for each transplant event. A patient may have multiple transplants.	Transplant and transplant outcome analyses.
Transplant Waiting List (WAITLIST_KI, WAITLIST_KP)	One record per unique waitlist period per patient.	Raw waiting list data as reported by the OPTN.
Transplant Waiting List Sequence (WAITSEQ_KI, WAITSEQ_KP)	One record per continuous waitlist period per patient per transplant center.	Versions of the above files collapsed for easier use. Waiting list start and stop dates for each center at which a candidate is listed, with adjacent waiting periods that might appear in WAITLIST_KI and WAITLIST_KP collapsed.
Dialysis Mortality and Morbidity Special Study (DMMS)	Wave 1, 5670 patients. Wave 2, 4024 patients. Wave 3, 11,142 patients.	Comorbid conditions, adequacy of dialysis, dialysis prescription and other treatment parameters, laboratory test values, nutrition, vascular access.
Case Mix Adequacy Special Study (ADEQUACY)	7096 patients.	Comorbid conditions, adequacy of dialysis, dialysis prescription and other treatment parameters, laboratory values.
Case Mix Severity Special Study (CASEMIXS)	5255 patients.	Comorbid conditions, adequacy of dialysis, dialysis prescription and other treatment parameters, laboratory values.
Pediatric Growth Development Special Study (PEDGROW)	3067 patients.	Growth, development, and other issues relating to pediatric and ESRD patients.
CAPD Peritonitis Special Study (CAPD)	3385 patients.	CAPD and peritonitis.
Facility (FACILITY)	One record for each year facility has operated.	Merge with the treatment history, transplant, or annual summary SAFs for analyses involving provider characteristics by encrypted facility ID.
Facility Cost Reports (FCOSHOS)	One record per facility per year (1989–1995).	Costs and staffing of dialysis facilities.
Dialyzers (DIALYZER)	Information on dialyzer characteristics; match to patient dialyzer information in other files.	Relation of dialyzer characteristics to patient outcomes.
Claim Codes (CLMCODES)	One record for each diagnosis, procedure, or HCPCS code in claims files.	Frequency of occurrence of each code; a starting point for analyses using diagnosis and procedure codes.
FORMATS	All USRDS-defined SAS formats used by the SAFs.	Format library used to format values of categorical variables.

REQUIREMENTS FOR USING THE SAFS

- ◆ Computer: at a minimum, a 486 or Pentium PC. Smaller runs have been done on 486/100 PCs. The files can be converted to SAS transport format for use on any computer with access to SAS.
- ◆ CD-ROM drive: any PC with a CD-ROM drive should be able to read the SAF CDs.
- ◆ Disk storage: between 10 and 600 megabytes are needed to use the Core CD, depending on the files being used. The data on each CD require from 550 to 650 megabytes of disk storage. Additional space is needed for temporary work files and for files users create.
- ◆ Software: SAS. Files converted to SAS transport format can be used by SPSS.
- ◆ People with SAS experience: The SAF documentation provides basic information about loading the files into SAS and using them, but further work with the files requires SAS experience.

File media and formats

The SAFs are provided on CD-ROM disks as SAS files, and can be used directly by SAS on any 486 or Pentium PC with a CD-ROM reader.

The SAS format was chosen for the USRDS SAFs because it is widely used, easily transported, and largely self-documenting. SAS is a commercially available data management and statistical analysis software system that runs on most computers, from mainframes to PCs, and it is almost universally available on university computer systems. The USRDS SAFs take full advantage of the program's ability to incorporate a large amount of documentation into the file.

Researchers who require a different program format or a medium other than CD-ROM must arrange for the conversion themselves. The USRDS may be able to convert files to alternative formats or media, but at substantially greater cost.

COST

The price of the files covers the cost of reproducing and shipping the file and its documentation, administrative costs of handling the sales, and costs of technical support for researchers. Checks must be made payable to the Minneapolis Medical Research Foundation. Prices are subject to change.

DOCUMENTATION

This *Researcher's Guide* provides most of the documentation for the SAFs by including a codebook of variables in the files and a chapter on techniques for using the SAFs in SAS (*Getting Started*, page 7). The *Researcher's Guide* is available in PDF format at www.USRDS.org.

ACKNOWLEDGEMENT FOR USE OF USRDS DATA

Publications that use USRDS data should include an acknowledgment and the following notice:

The data reported here have been supplied by the United States Renal Data System (USRDS). The interpretation and reporting of these data are the responsibility of the author(s) and in no way should be seen as an official policy or interpretation of the U.S. government.

DATA RELEASE POLICIES AND PROCEDURES

Because the SAFs and custom data files contain confidential, patient-specific data, release of these files requires the approval process described here. Investigators may contact the USRDS Project Officer at the NIDDK to discuss their requests before preparing a written proposal. To request and use USRDS data files, investigators should do the following:

- ◆ Provide the USRDS Project Officer with a detailed description of the proposed investigation (outlined in Table A.4). The project summary must include goals, background data, an in-depth description of the study design and analytic methodology, and resources available for completing the project. It may be the project description from a grant or other funding application. The proposed project must comply with the Privacy Act of 1974, and the project summary should provide enough information to enable assessment of compliance. Guidelines for adherence to the Privacy Act appear in the USRDS "Agreement for Release of Data," page 44.
- ◆ Indicate which USRDS SAFs will be needed. If the USRDS SAFs cannot meet the requirements of the proposed research, the proposal must specify precisely which data elements are needed, and investigators must budget for a substantially higher cost.
- ◆ If the project is approved, return a signed copy of the USRDS "Agreement for Release of Data" to the Project Officer. The investigator and the Coordinating Center will resolve any technical questions and arrange for payment. Payment must be received before the files will be released. Checks must be payable to the Minneapolis Medical Research Foundation.

The NIH will review the project for technical merit and conformity with the Privacy Act. The Project Officer will notify the investigator(s) in writing of the outcome, and if the project is not approved will discuss reasons for the decision. The Project Officer will send the approval letter to the Coordinating Center. The process of reviewing the data request, generating the data file, and releasing the data takes the Coordinating Center about three months.

When the signed "Agreement for Release of Data" and payment for the files have been received by the Coordinating Center, the files and documentation will be prepared and sent to the investigator.

Any reports or articles resulting from use of the USRDS data must be submitted to the Project Officer before submission for publication to assure adherence to the Privacy Act. The Project Officer must respond within 30 days. If a report or article is determined not to adhere to the Privacy Act, it will not be published until compliance with the Act is achieved. Assessment of compliance will not depend on the opinions and conclusions expressed by the investigators, nor will the Project Officer's approval indicate government endorsement of the investigator's opinions and conclusions.

All publications using the released data must contain the standard acknowledgement and disclaimer presented above. The investigator is requested to send copies of all final publications resulting from this research to the Project Officer and to the USRDS Coordinating Center.

CAVEATS

This policy establishes conditions and procedures for the release of data from the USRDS and is intended to ensure that data are made available to investigators in the pursuit of legitimate biomedical, cost-effectiveness, or other economic research.

The USRDS will not release data that identify individual patients, providers, or facilities. However, because inferring the identity of individual patients, providers, or facilities from the data in the SAFs might be possible, these data are considered confidential. The USRDS "Agreement for Release of Data" contains general and specific restrictions on the use of USRDS data, and investigators are expected to abide by these restrictions. If individually identifiable data are needed, the request should be submitted directly to the Centers for Medicare & Medicaid Services.

Use of these data to identify or contact patients, facilities, or providers in the files is prohibited both by USRDS policy and by the Privacy Act of 1974.

The USRDS Coordinating Center will provide data in any of the usual media (tape, disk, or hard copy). Analytical services, other than review of the proposal and preparation of the data file, are not provided under the USRDS contract, although Coordinating Center personnel may participate in analyses funded by other sources.

SAFs or other data files from USRDS Special Studies become available one year after the data have been collected, edited, and entered into the database.

Table A.4. Outline for Research Proposals Using USRDS Data

- I. Research topic title and submission date.
- II. Background information.
- III. Study design
 - A. Objectives
 - B. Hypotheses
 - C. Analytical methods
- IV. Requested data
 - A. List of Standard Analysis Files needed (specify if multiple years) or fields in custom data file.
 - B. Description of data security measures (responsible party, computer access, etc.).
 - C. Timeframe for the project.
 - D. Statement that data will be returned to the USRDS or destroyed at the end of the project.
- V. To address patient privacy issues, to be consistent with HIPAA policies, and to insure adherence to local privacy standards and USRDS and CMS privacy policies, the USRDS requires IRB approval for all research proposals except those requesting aggregate data.
- VI. Outline of estimated costs of requested data, funding source.
- VII. Agreement for Release of Data signed by all researchers.
- VIII. Information for Principal Investigator and co-investigators:
 - Name
 - Affiliation
 - Business address
 - Business phone and fax
 - Email address

Submit to:
Paul Eggers, PhD
NIDDK
6707 Democracy Blvd, Room 615
Bethesda, MD 20892-5458
Phone 301.594.8305
Fax 301.480.3510
eggersp@extra.niddk.nih.gov

Table A.3. Prices for USRDS Standard Analysis Files on CD-ROM
Checks must be payable to the Minneapolis Medical Research Foundation

<i>SAF CDs</i>	<i>Files</i>	<i>Price</i>	<i>Description</i>
Core	4	\$1000	Needed to use any other SAF CD.
Transplant	2	\$250	Detailed transplant data from CMS and UNOS.
Hospital	2	\$250	Derived from the institutional claims and institutional claims details CDs. Contains diagnosis and surgical procedure codes for each stay, but no cost data.
DMMS claims	4	\$500	All institutional and physician/supplier claims data for patients in the USRDS Dialysis Morbidity and Mortality Special Study. Special Study data collection form data are on the Core CD.
Case Mix Adequacy	1	\$125	Contains all institutional and physician/supplier claims data for patients in the USRDS Case Mix Adequacy Special Study, including Special Study data collection form data.
CPM/USRDS merged dataset	Variable		The CPM 2001 SAF CD set includes CPM data collections from the 1994 through 2000 surveys, with a claims history from the USRDS 2001 SAF CD. Additional years of merged CPM SAF CDs are also available. For more information, visit www.usrds.org/cpm.htm or call 1.888.99USRDS.

Medicare Claims CDs

Year	Institutional claims			Physician/supplier claims	
	Claim Files	Detail Files	Price	Files	Price
pre-1989*	1	1	\$250		
1989	1	1	\$250		
1990	1	1	\$250		
1991	1	2	\$375	4	\$500
1992	1	2	\$375	4	\$500
1993	1	2	\$375	4	\$500
1994	1	2	\$375	5	\$625
1995	1	3	\$500	5	\$625
1996	1	3	\$500	6	\$750
1997	1	3	\$500	7	\$875
1998	1	3	\$500	7	\$875
1999	1	3	\$500	7	\$875
2000	1	5	\$750	7	\$875
2001	1	5	\$750	7	\$875
2002	1	6	\$875	8	\$1000
2003	1	6	\$875	9	\$1125
2004	1	7	\$1000	9	\$1125
2005	1	8	\$1125	10	\$1250

*Pre-1989 files include only hospital inpatient stays and quarterly summaries of outpatient dialysis with no cost data.

†2006 claims will be available in early 2008; prices subject to change.

United States Renal Data System (USRDS) Agreement for Release of Data

Project title _____

In this agreement, “Recipient” means _____

- A. The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), through the United States Renal Data System (USRDS) Coordinating Center (CC), will provide the Recipient with tapes, disks, and/or hard copies containing data extracted from the USRDS research database.
- B. The sole purpose of providing the data is the conduct of legitimate and approved biomedical, cost-effectiveness, and/or other economic research by the Recipient.
- C. The Recipient shall not use the data to identify individuals on the file.
- D. The Recipient shall not combine or link the data provided with any other collection or source of information that may contain information specific to individuals on the file, except where written authorization has been obtained through the approval process.
- E. The Recipient shall not use the data for purposes that are not related to biomedical research, cost-effectiveness, or other economic research. Purposes for which the data may not be used include, but are not limited to,
 - the identification and targeting of under- or over-served health service markets primarily for commercial benefit
 - the obtaining of information about providers or facilities for commercial benefit
 - insurance purposes such as redlining areas deemed to offer bad health insurance risks
 - adverse selection (e.g., identifying patients with high risk diagnoses)

Any use of the data for research not in the original proposal must be approved by the USRDS Project Officer (PO).

- F. The Recipient shall not publish or otherwise disclose the data in the file to any person or organization unless the data have been aggregated (that is, combined into groupings of data such that the data are no longer specific to any individuals within each grouping), and no cells (aggregates of data) contain information on fewer than ten individuals or fewer than five providers or facilities. The Recipient shall not publish or otherwise disclose data that identify individual providers or facilities, or from which such identities could be inferred. However, the Recipient may release data to a contractor for purposes of data processing or storage if (1) the Recipient specified in the research plan submitted to the USRDS Project Officer that data would be released to the particular contractor, or the Recipient has obtained written authorization from the PO to release the data to such contractor, and (2) the contractor has signed a data release agreement with the PO.
- G. A copy of any aggregation of data intended for publication shall be submitted to the PO for review for compliance with the confidentiality provisions of this agreement prior to submission for publication and, if not approved, shall not be published until compliance is achieved. The PO must respond within 30 days.
- H. Appropriate administrative, technical, procedural, and physical safeguards shall be established by the Recipient to protect the confidentiality of the data and to prevent unauthorized access to it. The safeguards shall provide a level of security outlined in OMB Circular No. A-130, Appendix III—Security of Federal Automated Information System, which sets forth guidelines for security plans for automated information systems in Federal agencies.
- I. No copies or derivatives shall be made of the data in this file except as necessary for the purpose authorized in this agreement. The Recipient shall keep an accurate written account of all such copies and derivative files, which will be furnished upon request to the PO. The USRDS data files covered in this data use agreement may be retained by the Recipient until _____. At the completion of the activities in the research plan, the file shall be returned to the USRDS CC at the Recipient’s expense, and any derivative files and copies shall be destroyed.
- J. For the purpose of inspecting security procedures and arrangements, authorized representatives of the PO and/or of CMS will, upon request, be granted access to premises where data in this file are kept.

Recipient typed name, title, & organization

Recipient telephone number

Recipient signature & date

Contractor typed name, title, & organization, as appropriate

Contractor telephone number

Contractor signature & date

Lawrence Y. C. Agodoa, MD, NIDDK, NIH or
Paul W. Eggers, PhD, NIDDK, NIH
USRDS Project Officer

USRDS Project Officer signature & date

May 2004

Appendix B

Medicare Claims



INTRODUCTION

The USRDS Coordinating Center created files from CMS billing data to incorporate into the USRDS database. These files include claims for some patients who are not included in the SAF.PATIENTS file and claims for some patients before the start of ESRD. These cases can be identified and handled by merging the claims files with SAF.PATIENTS, as discussed under the heading “Patients and Time Periods Included.”

CMS DATA SOURCES

Medicare claims are of two types: physician/supplier claims for all of Medicare Part B, and institutional claims primarily for Part A. Some Part B claims, however, are institutional claims, notably those for outpatient dialysis. The structure and content of the two types of claims are different, as are the files derived from them.

The institutional claims files are obtained from the CMS SAFs, and the physician/supplier data from the 100% National Claims History nearline file. Information on outpatient dialysis and hospital inpatient stays not included in the CMS SAFs is obtained from PMMIS/REBUS. Together, these sources provide data on all types of Medicare bills. The following CMS SAFs are used:

- ◆ Inpatient
- ◆ Outpatient
- ◆ Skilled Nursing Facility
- ◆ Home Health Agency
- ◆ Hospice

For institutional and physician/supplier claims files, data for a year is frozen at the end of the following June, so claims submitted after June of the year following the year of service are included. All data are resolved to final bills, with duplicates and correction transactions resolved into a single final bill for the service in question.

For 1977 through 1990 the PMMIS/REBUS system provides an alternate source of data on hospital inpatient stays and outpatient dialysis, but it includes no charge or payment data. The inpatient data include diagnosis and procedure codes, and outpatient data include summaries of dialysis claims by calendar quarter and provider. This is the only source for data from before 1989, the year in which the CMS SAFs start. Starting with 1991, data from PMMIS/REBUS is used only when a matching hospital stay or dialysis record is not in the CMS SAFs. SAF data are given preference because of their greater detail. However, because these files contain no data for claims processed by CMS after the June following the year of service, some claims are missed. PMMIS/REBUS data are included in the Institutional Claims and Institutional Claim Details Files and can be distinguished by the value of the HCFASAF variable (M or Q). CMS SAFs and Part B physician/supplier data both begin in 1991, and extend through the last date shown in Table A.3 (page 40). Data for a given year usually become available in August or September of the following year, and are based on claims processed through June.

Bills submitted or finalized after the cutoff date are included in the SAF for the following year. When analyzing claims, it is important to realize that all claims contained

in the SAFs for a given year may not have been incurred in that year, while some claims incurred in a given year may appear in the SAFs for the following year. Because the service dates of the claim correspond to the actual dates of service, they should be used to determine inclusion in analyses, not the calendar year of the SAFs. As the reporting window is 18 months for January claims and only six months for December claims, data are likely to be less complete as a year progresses.

PATIENTS AND TIME PERIODS INCLUDED

The Medicare claims files (SAF.INCLAIM, SAF.INDETAIL, and SAF.PSCLAIM) contain data for some patients not included in the SAF.PATIENTS file. When the USRDS database is updated, all claims for all patients who show an indication of having ESRD are retrieved from the CMS database. Some patients are then filtered out, and not included in SAF.PATIENTS or the USRDS analyses. This procedure allows the USRDS Coordinating Center itself to exclude data, rather than request them anew from CMS should they be needed later. Patients may be filtered out because of problems with the data, as when two patients have the same Medicare ID or Social Security number, or a patient's listed birth date comes after the death date. In other cases, too little information is available to establish the presence of ESRD or a date of first ESRD service. Sometimes a person filtered out one year passes the filters the next year because data problems are resolved or new data confirm that the patient has ESRD.

Researchers need to decide whether to include the claims for these patients in their analyses. The claims can be excluded by merging the claims file with SAF.PATIENTS by USRDS_ID and selecting only patients who appear in SAF.PATIENTS.

The USRDS database also includes pre-ESRD claims for patients who were entitled to Medicare due to age or disability before they developed ESRD. Because these data are not available for all patients, and because it is likely that patients entitled to Medicare before ESRD are systematically different from those not entitled, analyses of these data must be designed with care.

To obtain claims from the ESRD period only, merge the claims file with PATIENTS to identify the first service date, and select only those claims occurring on or after this date. It is up to researchers to determine how or whether to include claims that straddle the first service date.

BASIC FILE STRUCTURE

Institutional claims are for hospital inpatient stays, hospital outpatient services, most dialysis, skilled nursing facilities, home health agencies, and hospices. Dollar amounts are available in the Institutional Claims file. The Institutional Claims Details file contains diagnostic and procedural codes that can occur a variable number of times for each claim. For many analyses this file is not needed.

Physician/supplier claims are bills covering physician services and medical supplies. They account for approximately 80% of the claims but only 20% of the dollars. One diagnostic and one procedural code can occur on each physician/sup-

plier claim, which is essentially a line-item record. One visit to a physician can generate multiple claims records.

While there are only minor differences in the structure of the data included in the five institutional claim types (hospital inpatient, hospital and freestanding outpatient, hospice, home health agency, skilled nursing facility), the structure of the physician/supplier claims is substantially different from that of the institutional claims.

Institutional claims are submitted on Part A claim forms, which have a large header portion followed by variable length trailers. Possible trailer fields include diagnoses, procedures, and revenue centers. Physician/supplier claims have a simpler header portion and fewer trailer fields, including the revenue center with a CMS Common Procedure Code Standard (HCPCS) procedural code. Unlike the International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM) procedural codes on the institutional claims, which primarily record invasive surgical procedures, HCPCS codes record all procedures performed by physicians (e.g., patient histories) and all supplies, ranging from Band-Aids to dialysis machines.

INSTITUTIONAL CLAIMS

A “claim” file and a “claim detail” file are created from the institutional files. The details can be linked back to the claims. The Institutional Claims File has one record per claim, with a claim generally representing a single instance of service, such as a hospital inpatient stay, an outpatient surgery, or a month of dialysis. Dollar values for total and allowed charges are stored in the claim file, which also shows the type and number of dialysis sessions included in the claim.

Data in the Institutional Claims File allow researchers to determine dialysis treatment modality over time, compute hospitalization rates, and determine aggregate costs by time period and type of cost. These data are sufficient for many research studies and most USRDS products. Analyses of particular diagnoses, procedures, or revenue centers require the claims detail file.

Table B.1 shows the variables in the Institutional Claims file. The claims are uniquely identified by a compound key consisting of the first four variables listed in Table B.1. The records in the institutional claims files are sorted by this compound key.

The derivation of the dialysis and EPO variables on the Institutional Claims record is described below under Revenue Center Details.

MEDICARE PAYMENT VARIABLES

CLM_TOT is the total amount billed for the claim, while CLM_AMT is the amount actually paid by Medicare. For Inpatient and skilled nursing facility claims, the cost also includes an amount for the CMS pass-through payments for items such as indirect medical education, capital, and kidney acquisition for transplants. To obtain this pass-through payment amount, multiply the per diem amount (PER_DIEM) by the count of covered days (CVR_DCNT). In addition to these overall amounts, the billed amount for dialysis and for EPO are provided by the variables DIALCASH and EPOCASH

DIALYSIS VARIABLES

The variable RXCAT indicates the type of dialysis, if any, included in a claim. RXCAT is derived from DIALREVC and DIALCRC, which come from the Revenue Center and Claim Related Condition details, as described below. DIALSESS is the UNITS value from the Revenue Center detail which indicates dialysis. For in-center hemodialysis, this generally indicates a plausible value for the number of dialysis sessions. For other types of dialysis, particularly CAPD and CCPD, this may indicate the number of days. DIALCASH is REV_CH from the Revenue Center detail and is the provider’s billed charge rather than the Medicare payment. The Revenue Center and Claim Related Condition details, which indicate dialysis, are not included in the Institutional Claim Details file unless the claim has multiple details which indicate dialysis.

EPO VARIABLES

Summary variables are provided for EPO treatments covered by a claim. EPO treatments are identified by Revenue Center codes 0634 and 0635 and by HCPCS codes from Q9920 through Q9940 on a Revenue Center detail. The variable for number of EPO administrations (EPOADMIN) is the UNITS variable from the Revenue Center detail, while the variable for EPO payments (EPOCASH) is the REV_CH variable. If the claim has multiple Revenue Center details indicating EPO, the EPOADMIN and EPOCASH are summed over these details. The Revenue Center details from which these variables come are not retained in the Institutional Claim Details SAF.

The variables for the dose of EPO (EPODOSE) come from a Claim Related Value detail with code ‘68’, and the variable for hematocrit (HCRIT) comes from a Claim Related Value detail with code ‘48’. The Claim Related Value details from which these variables come are not retained in the Institutional Claim Details SAF.

INSTITUTIONAL CLAIM DETAILS

The Institutional Claim Details file includes a variety of details about each claim. The records in this file can be linked back to the corresponding claim in the claims file. There may be none, one, or many records for each type of detail for a particular claim.

- ◆ ICD-9-CM diagnosis codes
- ◆ ICD-9-CM procedure codes
- ◆ CMS revenue center codes (line item)
- ◆ HCPCS procedure codes (with line item)
- ◆ CMS claim related condition codes
- ◆ CMS claim related value codes

Table B.2 shows the variables appearing in the Institutional Claim Details file. There can be any number of Institutional Claim Details records for each Institutional Claims record. The claim detail file is sorted by the same four-part compound key as the Claims file, so that this key can be used to link the two files.

The two-file structure is a solution to the problem of a number of important data items that appear to be zero one or many times in a given claim. Hospital inpatient stay claims, for example, always have DRG codes, but other types of institutional claims never have this code. All claims should have

at least one ICD-9-CM diagnosis code, but they may have up to ten. A hospital inpatient claim probably uses one or more ICD-9-CM surgical procedure codes if the stay involved surgery, but may also have revenue center details which specify procedures using HCPCS codes, and an outpatient claim is more likely to specify procedures using revenue center details with HCPCS codes. Using a master and a detail file creates a simple structure easily manipulated in SAS.

REVENUE CENTER DETAILS

The Revenue Center details are the source of a number of important variables. The Revenue Center details correspond to the Revenue Center “trailers” on the CMS SAF records. A record “trailer” is a section of the file record that can appear as a variable several times; the number of occurrences is indicated by an additional variable resulting in records that vary in length depending upon the amount of data present. The CMS SAF records have nine types of trailers, making the record structure quite complex.

The Revenue Center details (or record trailers) provide data about the breakdown of the total charges into charges from “each cost center for which a separate charge is billed (type of accommodation or ancillary).” A cost center is a division or unit within a hospital (e.g., radiology, emergency room, pathology). Each Revenue Center detail contains a variable for the amount charged (REV_CH in the Institutional Claims Detail file), and one detail, with Revenue Center code ‘0001,’ is the sum of all of the REV_CH for all other Revenue Center details for that claim.

To test the consistency of the Revenue Center Details and the CLM_TOT variable, The Coordinating Center examined the original CMS SAF records for 10,000 inpatient and 10,000 outpatient claims. In all cases the ‘0001’ Revenue Center amount was the sum of the other Revenue Center amounts. In about 3% of the inpatient records, however, CLM_TOT was greater than this sum. Beginning in late 2000, CMS began providing a field in the revenue trailers called revenue center payment amount, which corresponds to the payment amount for each revenue center trailer for all outpatient claims. This field is included as an additional variable (REVPMT) in the 2001 Institutional Detail SAF, starting with calendar year 2001. This value allows researchers to more accurately determine the payment amount for individual types of Revenue Center services (such as Laboratory service, EPO, and dialysis) billed on outpatient claims. One caveat for using this variable is that the REVPMT summed over all Revenue Center Details for a given claim will not always agree with the CLM_AMT variable contained in the Institutional Claim SAF for that claim. Our analysis showed that the sum of REVPMT over all outpatient claims exceeded the CLM_AMT for all outpatient claims by approximately 3%.

The SAS format \$REVCEN gives labels for the Revenue Center codes (the CODE variable on records with CDTYPE = ‘R’). The Revenue Center details are the source for the dialysis and EPO variables on the Institutional Claims file. Codes 0800-0809 and 0820-0889 indicate the type of dialysis (DIALREVC). UNITS provides the number of dialysis sessions (DIALSESS), and REV_CH provides the dialysis charges (DIALCASH). DIALCASH should be treated with

caution because its use may be inconsistently defined; it is not clear if the value is the charged amount or the CMS allowed charge, and definition of the value may vary from institution to institution.

When a claim has only one dialysis Revenue Center code, as is usually the case, a Revenue Center detail record is not produced because the relevant data items are recorded on the Institutional Claim record. If a claim has multiple Revenue Center details indicating dialysis, the dialysis variables are derived from the first Revenue Center code encountered, giving precedence to the more specific codes. In this case, a detail record is created for each Revenue Center detail on the claim so users have the opportunity to interpret the multiple details.

Other Institutional Revenue Center details are of lesser interest unless a HCPCS code is included indicating a more specific service. A code showing that a claim is for laboratory services, for example, frequently includes a HCPCS code indicating the specific test performed. Revenue Center Detail records are included regardless of the presence or absence of a HCPCS code.

INSTITUTIONAL CLAIMS DETAIL FILE VARIABLES

CDTYPE, CODE

CDTYPE indicates the type of code contained in the CODE variable. Both variables are present on every record, while the remaining variables are not present for some CDTYPES. Table B.2 indicates the meaning of each CDTYPE and the SAS format that provides labels for the values of CODE for each CDTYPE.

UNITS

Use of the UNITS variable varies with CDTYPE. When CDTYPE = “P” (ICD-9-CM Surgical Procedures), UNITS is a value created by the USRDS to indicate when the surgical procedure was performed, and time is expressed as the number of days from the date given by CLM_FROM, with CLM_FROM counted as 1. A value of 1 for UNITS indicates that the procedure was performed on the date given by CLM_FROM, and 2 indicates the day after CLM_FROM.

When CDTYPE = “R,” UNITS is described in the CMS file documentation as “a quantitative measure (unit) of services provided to a beneficiary associated with accommodation and ancillary revenue centers described on an institutional claim. Depending on the type of service, units are measured by number of covered days in a particular accommodation, pints of blood, emergency room visits, clinic visits, dialysis treatments (sessions or days), outpatient therapy visits, and outpatient clinical diagnostic laboratory tests. The revenue center code or the HCPCS code indicates the type of service.

Because the meaning of UNITS varies greatly, the variable must be used with caution. When using this variable, tabulate the distribution of values over the records being analyzed to ensure that the values look correct.

When CDTYPE = “I,” UNITS has a value of 1 or 0, where 1 indicates that this was the primary diagnosis for this claim and 0 indicates that it was a secondary diagnosis. The claim

Table B.1. Variables in the Institutional Claims SAF File

Name	Type	Length	Format	Comment
USRDS_ID	Num	8		USRDS patient ID number.
CLM_FROM	Num	8	Date7.	From date of service.
HCFASAF	Char	1	\$HCFASAF.	CMS SAF source of this bill. Format: D Dialysis, H Home health, I Inpatient, N Skilled nursing facility, O Outpatient, P Physician/supplier, S Hospice
SEQ_KEYC	Char	2		Sequence number to ensure unique key
CLM_THRU	Num	8	Date7.	Service through date
PROVUSRD	Char	4		USRDS provider ID number for dialysis providers (HCFA SAF = D), blank for others
PRM_PYR	Char	1	\$PRPAYR.	Primary payer for this bill
CLM_TOT	Num	8		Total charges
CLM_AMT	Num	8		Medicare payments
DIALYSESS	Num	8		Dialysis treatments based on the UNITS variable for the Revenue Center code indicated by DIALREVC. If multiple occurrences of Revenue Center code, UNITS are summed across occurrences
DIALREVC	Char	2		Revenue center code for dialysis. Right two characters of the primary Revenue Center code indicate dialysis. See text for determining dialysis modality
DIALCRC	Char	5		Claim related condition for dialysis. Right digit of the primary claim related condition code indicates dialysis. See text for determining dialysis modality
EPODOSE	Num	4		Dose of EPO from claim related value code 68
EPOADMIN	Num	4		Number of EPO administrations
EPOCASH	Num	4		Charges for EPO
HCRIT	Num	4		Hematocrit from claim related value code 48
DRG_CD	Char	3	\$DRGLAB.	Diagnosis Related Group Code. Inpatient and SNF claims only. DRG 302 indicates kidney transplant
DISCSTAT	Char	2		Destination on discharge from an inpatient or SNF stay. Files produced before 1998 provide this variable as an Institutional Claims Detail record with CDTYPE = S
PER_DIEM	Num	8		For inpatient and SNF claims, the HCFA pass-through payments. Hospital is reimbursed separately for PER_DIEM times CVR_DCNT.
CVR_DCNT	Num	8		For Inpatient and SNF claims, the Medicare covered day count. See PER_DIEM.
RXCAT	Char	1	\$RXCATIC.	Dialysis treatment modality

Table B.2. Variables in the Institutional Claims Detail SAF File

Name	Type	Length	Format	Comment
USRDS_ID	Num	8		USRDS_ID
CDTYPE	Char	1	\$CDTYPEI.	Defines type for CODE
CLM_FROM	Num	8	Date7.	Claim from date
CODE	Char	5		See documentation
HCFASAF	Char	1	\$HCFASAF.	SAF source of bill
HCPCS	Char	5		HCPCS code
REV_CH	Num	8		Revenue center total charge
SEQ_KEYC	Char	2		
UNITS	Num	8		
URR_CD	Char	8	\$URRFMT.	Urea reduction ratio for reported hemo bills
REVPMT	Num	8		Line item payment amount

details are not necessarily sorted with the primary diagnosis first.

REV_CH

REV_CH occurs only on Revenue Center details (CDTYPE = "R") and indicates "the total charges (covered and non-covered) for all accommodations and services (related to the revenue code) for a billing period before reduction for the deductible and coinsurance amounts and before an adjustment for the cost of services provided." REV_CH corresponds in concept to the CLM_TOT variable on the Institutional Claims file, as discussed above under Revenue Center Details.

HCPCS

The CMS Common Procedure Coding Standard (HCPCS) "is a collection of codes that represent procedures, supplies, products, and services which may be provided to Medicare beneficiaries and to individuals enrolled in private health insurance programs." The HCPCS code occurs only on Revenue Center (CDTYPE = R) details but may not be present on all such records. HCPCS are an extension of the American Medical Association CPT-4 codes. Codes for certain pharmaceuticals, laboratory procedures, durable medical equipment, and radiology procedures are added to the CPT-4 codes to form HCPCS.

URR_CD

Starting in 1998, CMS began requiring the reporting of Urea Reduction Ratios (URRs) on outpatient hemodialysis claims. The URR is reported as a range that reflects the results for the month being billed. This information appears as a formatted value in the Revenue Center Details for hemodialysis claims.

PHYSICIAN/SUPPLIER FILE

In the physician/supplier file, a claim does not necessarily correspond to a logical instance of service, but is more likely to represent all services provided to a patient during the provider's billing period. Because procedures and costs are specified at the claim line item level, the file is constructed as a line item file, with one record per claim line item. For physician claims, the from/through dates can be used to identify a series of line items associated with a single visit. For supplier claims, however, the instance of service is more difficult to define. Bills for home dialysis dialysate, for example, specify

the quantity and delivery date of the dialysate but not the time period over which it is to be dispensed.

Table B.3 shows the variables in the Physician/Supplier Claims files. It contains two file types, identified by the value of the CDTYPE variables. CDTYPE = B indicates a physician/supplier line item, which has data for all the other variables. The DIAG variable indicates the diagnosis code associated with this line item. CDTYPE = I indicates that this record contains only a diagnosis code (DIAG); in this case the diagnosis code is associated with all line items on the claim. Payment variables for these records should be missing.

Variables MOD1-MOD4 are included to further identify the type of service billed on the line item. They are used in conjunction with the HCPCS/CPT code on the line item, and their meaning can be found in the Current Procedural Terminology codebook and the HCPCS Level II codebook.

The physician/supplier specialty code (SPCLTY) can be useful for untangling the bills for a specific surgical procedure. The principal surgeon, physician surgical assistants, and anesthesiologist use the HCPCS referring to the major invasive surgery to bill for that surgery. The code for nephrologists is 39.

The place of service variable (PLCSRV) indicates where the service was rendered. It can be used to distinguish between inpatient and outpatient services and between home dialysis and in-unit dialysis supplies. The value 6 refers to an ESRD treatment center.

The CMS service code variable (HCSRVC) can be used to distinguish between the principal surgeon and assistants. The value for immunosuppressive drugs is G, for renal supplier in the home L, for monthly capitation payment (dialysis) M, and for kidney donor N.

Three cost fields appear on each physician/supplier line item: submitted charges (SBMTCH); allowed charges (ALOWCH), which are the lower of prevailing, customary, or actual as determined by CMS; and the payment amount (PMTAMT), the amount paid to the provider and/or beneficiary after deductible and co-insurance amounts have been paid for the services included as a line item on a physician/supplier claim.

Table B.3. Variables in the Physician/Supplier File

Name	Type	Length	Format	Comment
USRDS_ID	Num	8		USRDS patient ID number
CLM_FROM	Date	8	Date7.	From date of service
HCFASAF	Char	1	\$HCFASAF.	CMS SAF source of this bill always = P
CLM_THRU	Date	8	Date7.	Thru date of service
CDTYPE	Char	1	\$HCCDTYP.	Line item type; B' = Phy/supp line item, I' = ICD-9-CM diagnosis
DIAG	Char	5	\$ICD9D.	ICD-9-CM diagnostic code
SBMTCH	Num	8		Submitted charges
ALOWCH	Num	8		Allowed charges
PMTAMT	Num	8		Claim payment amount
HCPCS	Char	5	\$HCPCS.	HCPCS Procedure Code
MOD1	Char	2		First HCPCS modifier
MOD2	Char	2		HCPCS modifier
MOD3	Char	2		HCPCS modifier
MOD4	Char	2		HCPCS modifier
SPCLTY	Char	2	\$PROVSP.	Provider Specialty Code
PLCSRV	Char	2	\$PLACESV.	Place of Service
HCSRVC	Char	1	\$HCFSVC.	HCFA Service Code
SRVCCT	Num	8		Number of services
PYRCOD	Char	1	\$PRPAYR.	Primary Payer Code

Appendix C

Statistical methods



METHODS FOR CALCULATING RATES

ESRD incidence rates, prevalence rates, death rates, and transplant rates are calculated for the total population or by groups such as year, Network, state, Health Service Area, age, gender, and primary cause of ESRD. Raw rates, model-based rates, and adjusted rates can be calculated using the following methods.

RAW RATES

Calculating raw rates is straightforward. Some rates are based on counts and others on total follow-up time. For example, incidence and prevalence rates are based on counts, but death rates are usually based on follow-up time. If state A had 1600 incident ESRD patients in 2004 and the state population size was 6,400,000 people, the incidence rate of state A in 2004 is:

$$r = 1600/6,400,000 \times 1,000,000 = 250 \text{ per million people}$$

If the total follow-up time of these patients in 2004 is 1100 patient-years, and 150 patient die in the incident year, the incident year death rate of state A is:

$$r_d = 150/1100 \times 1000 = 136.4 \text{ per thousand patient-years}$$

Calculating the standard errors for the estimated rates depends on the calculation of rates. If rate r depends on counts, its standard deviation is $\sqrt{r(r-1)/n}$ where n is the denominator of r . When n is large and r is very small, the standard deviation is estimated by $\sqrt{r/n}$. If rate r depends on another factor only, the second method can be used to calculate the standard deviations. If the units of the rates change (the first method assumes $0 = r = 1$), the standard deviations change accordingly.

MODEL-BASED RATES

If the sizes or total follow-up times are very small for some groups the raw rates may not be stable, and statistical models are necessary. Those most often used for calculating rates are the Poisson model and the Cox proportional regression model. Some software packages give the corresponding standard deviations; if not, the delta method can be applied based on output. The ADR uses a generalized mixed model for calculating death rates, first hospitalization rates, and first transplant rates. The Poisson model can be used without random effects according to the data.

The model used in the ADR is a generalized mixed linear model with log links, Poisson distribution, age, gender, race, primary diagnosis, their two-way interactions as fixed effects, and their four-way interactions as random effects. The response variable is death count and the offset is the log of total follow-up time. This model can produce predicted death counts. Predicted death rates are predicted death counts divided by total follow-up times. Most software packages give standard deviations for predicted counts, but not for predicted rates. The delta method or some other technique is needed to obtain standard deviations for predicted death rates.

For the Cox regression model, which reduces to the Kaplan-Meier method if there are no covariates, the predicted cumulative hazard at time t is the death rate in time period $(0, t]$, but special attention must be paid to the unit of the death rate.

ADJUSTED RATES

Because of the make-up of patient populations, raw rates might not reflect between-group differences that might be confounded by the differences between underlying population distributions. Adjusted, or standardized, rates are needed for comparison. When comparing rates adjusted for a particular factor, any remaining observed differences between groups cannot be attributed to confounding by that factor. The two main adjustment techniques are the direct method and the indirect method; only the direct method allows the rates to be compared (Fleiss 1981). Indirect adjusted rates are usually used as a standard for comparison with observed rates, similar to the standard mortality ratio.

Direct adjustment

If each group has many categories of interest, the direct adjusted rate is derived by applying the observed category-specific rates in the group to a single standard, or reference, population. This weighted average of the observed category-specific rates, with the weights taken from a standard population, provides for each group a single summary rate that reflects the numbers of events that would be expected if the group had identical distribution of the characteristic of interest as the reference. This makes the comparison valid, but the values of the adjusted rates are meaningless. Adjusted rates and their explanation are reference dependent. Because the reference population must have the same categories as all of the groups, it must be chosen with caution.

For example, to compare state-level incidence rates in 2004 under the assumption that race distributions in all states are the same, it is necessary to calculate the standardized incidence rates adjusted for race for each state. Because the race distributions are quite different in different states, the national population is a good choice for the reference. Using the national population at the end of 2004 as the standard population, and assuming the incidence rate of state A in 2004 is 173 per million people, the race-specific rates for state A and the national population distribution with respect to race are:

	Incidence Rate, State A	National Population, Percent
White	153	75.1
Black	250	12.3
Native American	303	0.9
Asian/Pacific	174	3.6
Other	220	8.0

The adjusted incidence rate of state A with the national population as the reference is:

$$(153 \times 75.1\%) + (250 \times 12.3\%) + (303 \times 0.9\%) + (174 \times 3.6\%) + (220 \times 8\%) = 158.73 \text{ per million people.}$$

Thus, if the population of state A had the same race proportions as the country as a whole, the incidence rate would be 158.73 instead of 173.

Adjusted-rate standard deviations can be calculated as follows: Calculate standard deviations for each category-specific rate in each group as described for raw rates, convert them to variances (the square of the standard deviation), then calculate the weighted sums of the variances as the variance of adjusted rates, where the weights are the squares of the weights in the calculation of adjusted rates. The square roots of the variances are the standard deviations of the adjusted rates.

The disadvantages of this method are:

- ◆ If one category in a group has a smaller population (the denominator of the rate) the corresponding category-specific rate will be unstable, making the adjusted rate for this group also unstable.
- ◆ If one category has no population in a group, the adjusted rate cannot be calculated for that group.
- ◆ There is no naïve method for calculating robust standard errors for adjusted rates.

Indirect adjustment

The indirect adjustment method is similar to the direct method. The indirect adjusted (standardized) rate for a group is derived by applying the category-specific event rates of the standard (reference) population to the group; it is the weighted average of the category-specific rates in the reference population with weights taken from the group. The indirect adjusted rate can be interpreted as the rate for the group if it had had the same category-specific rates as the reference population.

For example, if the population distribution with respect to race in state A and the national race-specific incidence rates per million population are as follows:

	National Incidence Rate	Population in State A, Percent
White	229	89.4
Black	970	3.5
Native American	862	1.1
Asian/Pacific	396	2.9
Other	358	3.0

The indirect adjusted rates for state A with national rates as the reference is

$$(229 \times 89.4\%) + (970 \times 3.5\%) + (862 \times 1.1\%) + (396 \times 2.9\%) + (358 \times 3\%) = 270.38 \text{ per million people.}$$

Choosing an appropriate reference allows calculation of indirect adjusted rates, but the rates are not comparable. For example, if Minnesota and Illinois had the same population distribution with respect to race, the indirect standardized rates, adjusted for race with the national population as the reference, would be the same no matter how different the real incidence rates between these two states.

MODEL-BASED ADJUSTMENT

Because of the disadvantages of the direct adjustment method, a model-based adjustment method is necessary. Sometimes models can be run and the average values of the covariates from the reference substituted. Unless the model is linear, however, averaging the covariates is not the same as averaging in the model, and the simple average might not provide accurate results. An appropriate method is to obtain the predicted death rates for each category in each group using a statistical model, then use the direct adjustment method to calculate adjusted rates based on predicted rates with the given reference population. If the model contains continuous covariates, individual predicted rates are needed.

For example, to calculate adjusted state-level one-year death rates for 2004 incident patients, adjusted for age, gender, race, and primary diagnosis, first calculate the predicted death rates for all intersection subgroups (categories) of age, gender, race, and primary diagnosis in each state (group), using a model. The Cox regression model can be used with state as a stratum variable because of the need to consider survival time and the questionable proportionality of the baseline hazard functions across states. The national 2004 ESRD incident patients are chosen as reference. The adjusted death rates can be calculated using the following procedures.

1. Fit the Cox regression model with survival time as response variable; age, gender, race, and primary diagnosis as explanatory variables; and state as the stratum variable.
2. Use the BASELINE statement in SAS Proc PHREG to calculate the baseline survival at day 365 for all states.
3. Calculate one death rate for each subgroup in each state at day 365 (one year) $r = \exp(x\beta) \log(S_0)$, using the estimated effect coefficient β and estimated survival of the state at day 365 S_0 , where x is the corresponding covariate value of the subgroup.
4. Calculate the weight for each subgroup based on the survival time in the first year for all 2004 incident patients in the country as a whole.
5. Calculate the adjusted death rate for each state based on the predicted rates from step 3, the weights from step 4, and the direct adjustment method.

Subgroup-specific death rates in steps 2 and 3 can also be calculated based on individual predicted deaths. The method for calculating adjusted survival is similar.

A disadvantage of this method is the lack of a closed form for calculating standard errors of the adjusted rates. The non-parametric bootstrap method can be used; it works well, but the computation is time consuming.

SURVIVAL ANALYSIS

The most commonly used methods for survival analyses are the Kaplan-Meier method for calculating survival probabilities, the log rank method for comparing survival between two or more groups, and the Cox proportional regression model for comparisons among groups and making inferences. The difficulty with survival analysis is defining the starting point (time zero) for survival time, especially in observational

studies. The time zero selection should be meaningful and should not cause selection bias; late or early start points may exclude some patients.

KAPLAN-MEIER

The Kaplan-Meier method (Kalbfleisch and Prentice 1980) is the most widely used non-parametric method for survival analysis. It is used for calculating survival functions and death rates. The plot of the Kaplan-Meier estimate of the survival function is a step-function, in which the estimated survival probabilities are constant between two successive death times which decrease at each death time. To find the survival probability at time t , find the closest death time $t_1 = t$; the survival probability at time t_1 is the estimate of survival probability at time t .

The standard error of the estimated survival probability at time t is given by the Greenwood formula. The confidence interval of the estimated survival probability at time t can be given by assuming that the estimated survival is normally distributed based on the standard error from the Greenwood formula.

LOG-RANK TEST

The log-rank test (Kalbfleisch and Prentice 1980) is a method for testing the hypothesis that there is no difference in survival probabilities over a time period among groups. The general log-rank test does not take into account the effect of other factors, such as different age groups, multiple clinical centers, etc. The stratified log-rank test (stratified by the factors of interest) will perform the log-rank test for each stratum and give the testing result by combining the information from all strata. This method can take account only of factors that can be classified. It cannot take account of continuous factors. If some strata have few patients, the result might not be stable. The modeling approach is more flexible.

COX REGRESSION MODEL

The Cox regression model (Kalbfleisch and Prentice 1980) is the most widely used semi-parametric method for survival analysis. It can be used to compare survival among groups and to find risk factors. The Cox model assumes:

$$h(t | X = x) = h_0(t) \exp(x_1\beta_1 + x_2\beta_2 + \dots + x_p\beta_p)$$

where $h(t | X = x)$ is the hazard function and $X = x = (X_1, X_2, \dots, X_p)$, $h_0(t)$ is the baseline hazard; i.e. $h_0(t) = h(t | X = 0)$, $x = (x_1, x_2, \dots, x_p)$ are the potential risk factors, and $\beta_1, \beta_2, \dots, \beta_p$ are the corresponding effects. If β_i is significantly different from zero, X_i is considered a risk factor.

This model is also called the Cox proportional regression model because if two individuals have characteristic $x^1 = (x_1^1, x_2^1, \dots, x_p^1)$ and $x^2 = (x_1^2, x_2^2, \dots, x_p^2)$, respectively, then the ratio of their hazard (relative risk) is:

$$h(t | X = x^1) / h(t | X = x^2) = \exp[(x_1^1 - x_1^2)\beta_1 + (x_2^1 - x_2^2)\beta_2 + \dots + (x_p^1 - x_p^2)\beta_p]$$

which does not depend on time. The basic assumption of the Cox regression model is proportionality. There are some

methods to test this assumption (Therneau and Grambsch 2000). If the hazards are not proportional for a variable, the analysis can be stratified by that variable. The stratified Cox model assumes the other factors have the same effects in all strata, but different strata may have different (non-proportional) baseline hazards, and usually they are not proportional. In survival analysis of ESRD patients, hazards for diabetic and non-diabetic patients are usually not proportional.

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Appendix D

Data File Descriptions



- ◆ Core CD -1
- 63 Patient Profile *PATIENTS*
- 64 Condensed Treatment History *RXHIST60*
- 65 Transplant *TX*
- 66 Payer History *PAYHIST*
- 67 Census Population (1) *CPST3R*
- 68 Census Population (2) *CPST4R*
- 69 Census Population (3) *CPUS3R*
- 70 Census Population (4) *CPUS4R*
- ◆ Core CD-2
- 71 Medical Evidence Form *MEDEVID95*
- 73 Medical Evidence Form *MEDEVID05*
- 75 Residence *RESIDENC*
- 76 CMS/CDC ESRD Annual Facility *FACILITY*
- 79 Transplant Wait List (Kidney) *WAITLIST_KI*
- 80 Transplant Wait List (Kidney Pancreas) *WAITLIST_KP*
- 81 Transplant Wait List Sequence (Kidney) *WAITSEQ_KI*
- 82 Transplant Wait List Sequence (Kidney Pancreas) *WAITSEQ_KP*
- ◆ Core CD-3
- 83 Detailed Treatment History *RXHIST*
- 84 Case Mix Adequacy Special Study *ADEQUACY*
- 87 Case Mix Adquacy Spec. Study Facility *ADQFACS*
- 88 CAPD Peritonitis Special Study *CAPD*
- 90 Case Mix Severity Special Study *CASEMIXS*
- 92 Claim Codes *CLMCODES*
- 93 Case Mix Severity Special Study Facility *CMSFACS*
- 94 Dialyzer *DIALYZER*
- 95 DMMS Wave 1 Special Study *DMMSWAV1*
- 100 DMMS Wave 2 Special Study *DMMSWAV2*
- 110 DMMS Wave 3 & 4 Special Study *DMMSWV34*
- 115 Dialysis Facility *DMMSFACS1*
- 116 Dialysis Facility *DMMSFACS2*
- 117 Dialysis Facility *DMMSFACS34*
- 118 Facility Cost Reports for Hospital Facility *FCOSHOS*
- 125 Facility Cost Reports for Independ. Facility *FCOSIND*
- 127 Pediatric Growth *PEDGROW*
- 130 Updated DMMS Wave 2 Data *WAV2UPDT*
- ◆ Core CD-4
- 140 Medical Evidence Form *MEDEVID*

- ◆ Transplant CD-1
- 143 Kidney Transplant-UNOS (Kidney) *TXUNOS_KI*
- 155 Kidney Tx -UNOS (Kidney Pancreas) *TXUNOS_KP*
- ◆ Transplant CD-2
- 167 Kidney Tx Followups-UNOS (Kidney) *TXFUUNOS_KI*
- 169 Kidney Tx Followups-UNOS (Kidney Pancreas) *TXFUUNOS_KP*
- 172 Immunosuppression at Followup-UNOS *TXIFUNOS*
- 173 Immunosuppression at Registration-UNOS *TXIRUNOS*
- 174 Kidney Transplant Followups-CMS *TXFUHCFA*
- 175 Kidney Transplant-CMS *TXHCFA*
- ◆ Hospital CD-1
- 177 Hospitalization 1 *HOSP1*
- ◆ Hospital CD-2
- 178 Hospitalization 2 *HOSP2*
- ◆ DMMS Claims CD-1
- 179 Hospitalization *HOSP*
- 180 Institutional Claims *INCLAIM*
- ◆ DMMS Claims CD-2
- 181 Institutional Claims Details *INDETAIL*
- ◆ DMMS Claims CD-3
- 182 Physician/Supplier Claims *PSCLAIM1*
- ◆ DMMS Claims CD-4
- 183 Physician/Supplier Claims *PSCLAIM2*
- ◆ Case Mix Adequacy CD
- 184 Hospitalization *HOSP*
- 185 Institutional Claims *INCLAIM*
- 186 Institutional Detail *INDETAIL*
- 187 Physician/Supplier Claims *PSCLAIM*
- ◆ Institutional Detail Claims CD*
- 188 Institutional Claims *INC2005*
- 189 Institutional Claims Details *DET2005*
- ◆ Physician/Supplier Claims CD*
- 199 Physician/Supplier *PS2005*

**Institutional and Physician/Supplier CD claims files are based on the same file structures year to year. Only file descriptions for the most recent year are shown.*

- ◆ Medicare 5% Sample CD Disease-Based Cohort
- 191 DM Patient Master File *DM_PATIENTS_MASTER_FILE*
- 192 CHF Patient Master File *CHF_PATIENTS_MASTER_FILE*
- 193 CKD Patient Master File *CKD_PATIENTS_MASTER_FILE*
- 194 DM Payer Sequence File *DM_PAYOR_SEQ_FILE*
- 194 CHF Payer Sequence File *CHF_PAYOR_SEQ_FILE*
- 194 CKD Payer Sequence File *CKD_PAYOR_SEQ_FILE*
- 195 DM Patient Co-morbid File *DM_CO_MORBID_yr*
- 195 CHF Patient Co-morbid File *CHF_CO_MORBID_yr*
- 195 CKD Patient Co-morbid File *CKD_CO_MORBID_yr*
- ◆ Medicare 5% Sample Institutional Detail Claims CD*
- 196 Institutional Claims *INC2005*
- 197 Institutional Claims Details *DET2005*
- ◆ Medicare 5% Sample Physician/Supplier Claims CD*
- 198 Physician/Supplier *PS2005*

**Institutional and Physician/Supplier CD claims files are based on the same file structures year to year. Only file descriptions for the most recent year are shown.*

CORE CD-1**PATIENT: Patient Profile**

Contains one record per patient in the USRDS database, and gives basic demographic and ESRD-related data.

Variable	Type	Length	Format	Comment
ADRIND	Num	8		This patient is included in the ADR cohort
ADRINDTXT	Char	1	\$ADRINDT	Reason this patient was not included in the ADR cohort
BORN	Num	8	MMDDYY	Date of Birth
CDEATH	Char	3	\$DEATHFM	Primary cause of death
CDEATH2	Char	3	\$DEATHFM	Secondary cause of death1
CDEATH3	Char	3	\$DEATHFM	Secondary cause of death2
CDEATH4	Char	3	\$DEATHFM	Secondary cause of death3
CDEATH5	Char	3	\$DEATHFM	Secondary cause of death4
COUNTY	Char	5		County (FIPS code)
DIED	Num	8	MMDDYY	Date of Death
DISGRPC	Char	5	\$DISGRPC	Primary disease > ESRD: detailed group
FIRST_SE	Num	8	MMDDYY	Date of First ESRD Service
INCAGEC	Char	2	\$AGE5YRC	Age at first ESRD service (5-yr groups)
INCYEAR	Num	8		Year of first esrd service
NETWORK	Char	2	\$NETFMT	ESRD Network
PDIS	Char	5	\$DIAG	Primary disease causing ESRD
RACE	Char	1	\$RACEFMT	Race of patient
RXSTOP	Char	1	\$RXSTOP	Rx stopped prior to death (1990 on)
SEX	Char	1	\$SEXFMT	Sex of patient
STATE	Char	2	\$STATFIP	State (FIPS code)
TOTTX	Num	8		Total transplants for this patient
TX1DATE	Num	8	MMDDYY	Date of first transplant
TX1DONOR	Char	3	\$DONOR	First transplant donor type
TX1FAIL	Num	8	MMDDYY	First transplant failure date
USA	Char	1		In USA? (Y/N)
USRDS_ID	Num	8	BEST	USRDS patient ID
ZIPCODE	Char	10	\$	ZIP_CODE

RXHIST60: Condensed Treatment History

A condensed version of the RXHIST file. All modality periods less than 60 days are subjected to a collapse with adjacent cells of longer durations.

Variable	Type	Length	Format	Comment
BEGDATE	Num	8	MMDDYY	Start date of this period
BEGDAY	Num	4		Start day of this period (start ESRD=1)
ENDDATE	Num	8	MMDDYY	End date of this period
ENDDAY	Num	4		End day of this period (start ESRD=1)
PROVUSRD	Num	8	BEST	USRDS Assigned Facility ID
RXGROUP	Char	1	SRXCATGP	Treatment modality (training recoded)
USRDS_ID	Num	8	BEST	USRDS_ID

TX: Transplant*Includes minimum details about all transplants from all sources.*

Variable	Type	Length	Format	Comment
DABO	Char	3	SBLOOD	Donor Blood Type
DAGE	Num	8		Donor Age
DHISP	Char	1	SETHFMT	Donor Hispanic Ethnicity
DONREL	Num	8	LD_REL	Relationship of Living Donor and Recipient
DRACE	Char	1	SRACEFMT	Donor Race
DSEX	Char	1	SSEXFMT	Donor Gender
DTYPE	Char	3	SDONOR	Donor Type
FAILDATE	Num	8	MMDDYY	Transplant Failure Date
INCCOUNT	Num	8		Sequence Number of This Transplant
PROVUSRD	Num	8	BEST	USRDS Assigned Facility ID
RABO	Char	3	SBLOOD	Recipient Blood Type
RACE	Char	1	SRACEFMT	Recipient Race
RAGE	Num	8		Recipient Age
RHISP	Char	1	SETHFMT	Recipient Hispanic Ethnicity
RSEX	Char	1	SSEXFMT	Recipient Gender
TDATE	Num	8	MMDDYY	Transplant Date
TOTTX	Num	8		Patient Total Number of TXs
TRR_ID	Num	8		Transplant Receipt Registration Form PRIMARY RECORD KEY
TX_SRCE	Char	1	STXSRC	Source of Transplant Record
USRDS_ID	Num	8	BEST	USRDS_ID
YEAR	Num	8		Year of Transplant

PAYHIST: Detailed Payer History

Contains a new record for each patient at each change in payer or dual eligibility status.

Variable	Type	Length	Format	Comment
BEGDATE	Num	8	MMDDYY	Start date of this period
DUALELIG	Char	7	SYNYNFMT	Medicare/Medicaid Dual Eligibility (Y/N)
ENDDATE	Num	8	MMDDYY	End date of this period
MCARE	Char	7	SYNYNFMT	Medicare Indicator (Y/N)
PAYER	Char	40	SPAYCAT	Payer Category
USRDS_ID	Num	8	BEST	USRDS_ID

CPST3R: Census Population

Census data, by state, and three races, white, black, or other.

Variable	Type	Length	Format	Comment
AGE	Char	8	SAGE5YRC	Age in 5-year increments
DEC31	Num	8		December 31 U.S. resident population
JUL1	Num	8		July 1 U.S. resident population
RACE	Char	1	SRACEFMT	Race
SEX	Char	1	SSEXFMT	Gender
STATE	Char	5	SSTATFIP	State FIPS Code
YEAR	Num	8		Year

CPSTAR: Census Population

Census data, by state, and four races, white, black, Asian, or Native American.

Variable	Type	Length	Format	Comment
AGE	Char	2	SAGE5YRC	Age in 5-year increments
DEC31	Num	8		December 31 U.S. resident population
JUL1	Num	8		July 1 U.S. resident population
RACE	Char	1	SRACEFMT	Race
SEX	Char	1	SSEXFMT	Gender
STATE	Char	2	SSTATFIP	State FIPS Code
YEAR	Num	8		Year

CPUS3R: Census Population

Census data for the US, by three races, white, black, or other.

Variable	Type	Length	Format	Comment
AGE	Char	2	SAGE5YRC	Age in 5-year increments
DEC31	Num	8		December 31 U.S. resident population
JUL1	Num	8		July 1 U.S. resident population
RACE	Char	1	\$RACEFMT	Race
SEX	Char	1	\$SEXFMT	Gender
YEAR	Num	8		Year

CPUSAR: Census Population

Census data for the US, by four races, white, black, Asian, or Native American.

Variable	Type	Length	Format	Comment
AGE	Char	2	\$AGE5YRC	Age in 5-year increments
DEC31	Num	8		December 31 U.S. resident population
JUL1	Num	8		July 1 U.S. resident population
RACE	Char	1	\$RACEFMT	Race
SEX	Char	1	\$SEXFMT	Gender
YEAR	Num	8		Year

CORE CD-2**MEDEVID95: Medical Evidence form 1995**

Contains full data from the 1995 version of the CMS Medical Evidence Report (CMS-2728), implemented in April, 1995. This is the source of data regarding primary cause of renal disease and start date of chronic renal dialysis. The 1995 version includes data on comorbidity, employment status, lab values at start of ESRD, and Hispanic ethnicity.

Variable	Type	Length	Format	Comment
AIDS	Char	1	SYNCFMT	AIDS (Q16r)
ALBUM	Num	8		Serum Albumin (Q18c)
ALBUMDT	Num	8	MMDDYY	Serum Albumin date (Q18c)
ALBUMLM	Num	8		Serum Albumin lower limit (Q18d)
ALCOH	Char	1	SYNUFMT	Alcohol dependence (Q16o)
ALGCON	Char	1		Medical Evidence Algorithm Conflict
APDXTR	Char	1	SYNUFMT	Bene Approved for Dial Train
APTXPR	Char	1	SYNUFMT	Bene Approved for Pre-TX Services
BMI	Num	8		Body Mass Index - Calculated
BORN	Num	8	MMDDYY	Birth Date
BUN	Num	8		BUN (Q18g)
BUNDAT	Num	8	MMDDYY	BUN date (Q18g)
CANCER	Char	1	SYNUFMT	Cancer (Q16n)
CARARR	Char	1	SYNUFMT	Cardiac arrest (Q16d)
CARFAIL	Char	1	SYNUFMT	Congestive heart failure (16a)
CRDATE	Num	8	MMDDYY	Date med ev record was posted to rebus
CREA	Num	8		Creatinine clearance (Q18f)
CREADAT	Num	8	MMDDYY	Creatinine clearance date (Q18f)
CTDATE	Num	8	MMDDYY	Date Atten Physician Signed Form (Q48)
CURTSIT	Char	1	SMESET	Curr Dial Treat Setting (Q35)
CURTXS	Char	1	SMETXST	Current Status of Transplant (Q33)
CVA	Char	1	SYNUFMT	Cerebrovascular disease, CVA TIA (Q16g)
DECBAS	Char	1		Decision basis
DIABINS	Char	1	SYNUFMT	Diabetes, currently on insulin (Q16k)
DIABPRIM	Char	1	SYNUFMT	Diabetes, (primary or contrib.) (Q16j)
DIALDAT	Num	8	MMDDYY	Date Regular Dialysis Began (Q23)
DIALEDT	Num	8	MMDDYY	Date Dialysis Stopped (Q25)
DIALRDAT	Num	8	MMDDYY	Return dialysis, tx nonfunction (Q34)
DIALSET	Char	1	SMESET	Primary Dialysis Setting (Q21)
DIALTYP	Char	1	SMEDIATP	Primary Type of Dialysis (Q22)
DIED	Num	8	MMDDYY	Date of Death
DRUG	Char	1	SYNUFMT	Drug dependence (Q16p)
DVA	Char	1	SYNUFMT	DVA coverage (Q10b)
DYSRHYT	Char	1	SYNUFMT	Cardiac dysrhythmia (Q16e)
EDITIND	Char	1		Data Edit Errors
EMPCUR	Char	1	SEMPSTAT	Current employment status (Q15)
EMPGRP	Char	1	SYNUFMT	Employer group health insurance (Q10d)
EMPPREV	Char	1	SEMPSTAT	Previous employment status (Q15)
EPO	Char	1	SYNUFMT	Pre-Dialysis/Tx EPO Administered (Q17)
ESRDCER	Char	1	SYNUFMT	Network confirmed as ESRD
ETHN	Char	1	SMEETH	Hispanic Ethnicity (Q8)
FACSTD	Num	8	MMDDYY	Patient Started Current Facility (Q24)
FORMVERSION	Num	8		Form Version: 1995, 2005
GFR	Num	8		GFR calculated (Ab. Levey or Schwartz)
HECRDT	Num	8	MMDDYY	Hematocrit date (Q18a)
HECRIT	Num	8		Hematocrit (Q18a)
HEGLB	Num	8		Hemoglobin (Q18b)
HEGLBDT	Num	8	MMDDYY	Hemoglobin date (Q18b)
HEIGHT	Num	8		Patient Height (Q13)
HIV	Char	1	SYNCFMT	HIV positive status (Q16q)
HYPERT	Char	1	SYNUFMT	Hypertension (Q16i)
IHD	Char	1	SYNUFMT	Ischemic heart disease (Q16b)
INC_AGE	Num	8		Age at incidence (ESRD date from profile)
MDCD	Char	1	SYNUFMT	Medicaid coverage (Q10a)
MDCR	Char	1	SYNUFMT	Medicare coverage (Q10c)
MDCRCOD	Char	1	SYNUFMT	Patient applying for medicare (Q11)
MESEQ	Num	8		Number of Med Evidence forms filed
MI	Char	1	SYNUFMT	Myocardial infarction (Q16c)
NETADT	Num	8	MMDDYY	Network Action Date
NETWORK	Char	2	SNETFMTN	Network number (Q55)

MEDEVID95: Medical Evidence form 1995 (continued)

Variable	Type	Length	Format	Comment
NOAMBUL	Char	1	SYNUFMT	Inability to ambulate (Q16s)
NOCOV	Char	1	SYNUFMT	No medical insurance (Q10f)
NOTRANS	Char	1	SYNUFMT	Inability to transfer (Q16t)
OTHCOV	Char	1	SYNUFMT	Other medical insurance (Q10e)
PATSIGN	Num	8	MMDDYY	Date Pt. signed form (Q51)
PDIS	Char	6	SDIAG	12 Prim cause renal failure trailer
PERICAR	Char	1	SYNUFMT	Pericarditis (Q16f)
PULMON	Char	1	SYNUFMT	Chronic obstruc pulmon disease (Q16l)
PVASC	Char	1	SYNUFMT	Periperal vascular disease (Q16h)
RACE	Char	9	SMERACE	Race (Q9)
SERCR	Num	8		Serum creatinine (Q18e)
SERCRDT	Num	8	MMDDYY	Serum creatinine date (Q18e)
SEX	Char	1	SMESEX	Sex (Q07)
SMOKE	Char	1	SYNUFMT	Tobacco use (Q16m)
TDATE	Num	8	MMDDYY	Date of transplant (Q27)
TRCERT	Char	1		Patient has/will complete training (Q40)
TRNEND	Num	8	MMDDYY	Date patient expect complete train (Q41)
TRSTDAT	Num	8	MMDDYY	Date training began (Q38)
TXADMDT	Num	8	MMDDYY	Date pt admitted in prep for tx (Q30)
TYPTRN	Char	1	SMEDIATP	Type of dialysis training (Q39)
UREA	Num	8		Urea (Q18h)
UREADT	Num	8	MMDDYY	Urea date (Q18h)
USRDS_ID	Num	8	BEST	USRDS_ID
WEIGHT	Num	8		Patient weight (Q14)

MEDEVID05: Medical Evidence form 2005

Contains full data from the 2005 version of the CMS Medical Evidence Report (CMS-2728), implemented in May, 2005. This is the source of data regarding primary cause of renal disease and start date of chronic renal dialysis. The 2005 version includes purpose of the form (initial, re-entitlement, supplemental), multiple patient race data, and data on nephrologist care, diet care, and access type.

Variable	Type	Length	Format	Comment
ACCESSTYPE	Num	8	ACCESS	(18.d) What access was used on first outpatient dialysis
ALBUM	Num	8		(19.a.1) Serum Albumin Value (g/dl).
ALBUMDT	Num	8	MMDDYY	(19.a.1.1) Serum Albumin Date
ALBUMLM	Num	8		(19.a.2) Serum Albumin Lower Limit Value
AVFMATURING	Num	8		(18.d.1) If not AVF, then: Is maturing AVF present?
AVGMATURING	Num	8		(18.d.2) If not AVF, then: Is maturing graft present?
BMI	Num	8		Body Mass Index - Calculated
BORN	Num	8	MMDDYY	Date of Birth (USRDS)
COMO_ALCHO	Char	1		(17.p) Co-Morbid P: Alcohol dependence.
COMO_AMP	Char	1		(17.g) Co-Morbid G: Amputation.
COMO_ASHD	Char	1		(17.b) Co-Morbid B: Atherosclerotic heart disease ASHD.
COMO_CANC	Char	1		(17.n) Co-Morbid N: Malignant neoplasm, Cancer.
COMO_CHF	Char	1		(17.a) Co-Morbid A: Congestive heart failure.
COMO_COPD	Char	1		(17.l) Co-Morbid L: Chronic obstructive pulmonary disease.
COMO_CVATIA	Char	1		(17.d) Co-Morbid D: Cerebrovascular disease, CVA, TIA*.
COMO_DM_INS	Char	1		(17.h) Co-Morbid H: Diabetes, currently on insulin.
COMO_DM_NOMEDS	Char	1		(17.j) Co-Morbid J: Diabetes, without medications.
COMO_DM_ORAL	Char	1		(17.i) Co-Morbid I: Diabetes, on oral medications.
COMO_DM_RET	Char	1		(17.k) Co-Morbid K: Diabetic retinopathy.
COMO_DRUG	Char	1		(17.q) Co-Morbid Q: Drug dependence*.
COMO_HTN	Char	1		(17.f) Co-Morbid F: History of hypertension.
COMO_INAMB	Char	1		17.r) Co-Morbid R: Inability to ambulate.
COMO_INST	Char	1		(17.u) Co-Morbid U: Institutionalized.
COMO_INST_AL	Char	1		(17.u1) Co-Morbid U1: Institutionalized - Assisted Living.
COMO_INST_NURS	Char	1		(17.u2) Co-Morbid U2: Institutionalized - Nursing Home.
COMO_INST_OTH	Char	1		(17.u3) Co-Morbid U3: Institutionalized - Other Institution.
COMO_INTRANS	Char	1		(17.s) Co-Morbid S: Inability to transfer.
COMO_NEEDASST	Char	1		(17.t) Co-Morbid T: Needs assistance with daily activities.
COMO_NONE	Char	1		(17.w) Co-Morbid W: None.
COMO_NRC	Char	1		(17.v) Co-Morbid V: Non-renal congenital abnormality.
COMO_OTHCARD	Char	1		(17.c) Co-Morbid C: Other cardiac disease.
COMO_PVD	Char	1		(17.e) Co-Morbid E: Peripheral vascular disease*.
COMO_TOBAC	Char	1		(17.m) Co-Morbid M: Tobacco use (current smoker).
COMO_TOXNEPH	Char	1		(17.o) Co-Morbid O: Toxic nephropathy.
COMORBID	Char	49		(17.) Concatenates the patients comorbidity factors
CRDATE	Num	8	MMDDYY	(CMS) Date this form was entered into the system.
CTDATE	Num	8	MMDDYY	(50.) Supervising Physician Signature Date.
CURTSIT	Char	1	SMESET	(37) Current Dialysis Treatment Site.
CURTXS	Char	1	SMETXST	(34.) Transplant Status.
DECBAS	Char	1		(CMS) Decision regarding how the patient was confirmed as ESRD.
DIALDAT	Num	8	MMDDYY	(24.) Date Regular Dialysis Began.
DIALEDT	Num	8	MMDDYY	(CMS) Date patient stopped dialysis therapy.
DIALRDAT	Num	8	MMDDYY	(36.) Dialysis Return date after a transplant rejection.
DIALSET	Char	1	SMESET	(22.) Dialysis Setting.
DIALTYP	Char	1	SMEDIATP	(23.) Dialysis Type.
DIED	Num	8	MMDDYY	(CMS) Date of patients death.
DIETCARE	Num	8		(18.c) Was patient under care of kidney dietitian?
DIETCARERANGE	Num	8	RANGE	(18.c.1) Was patient under care of kidney dietitian? If Yes, 6-12 or >12 months
DONORTYPE	Num	8	DONORTYP	(35.) Type of Donor
EMPCUR	Char	1	SEMPSTAT	(16.) Summarizes the patients employment status at time of 2728 filing
EMPPREV	Char	1	SEMPSTAT	(16.1) Summarizes the patients prior employment status
EPO	Char	1	SYNUFMT	(18.a) Erythropoietin (EPO) was administered prior to dialysis or transplant.
EPORANGE	Num	8	RANGE	(18.a.1) Did patient receive EPO or equivalent? If Yes, 6-12 or >12 months
ETHN	Char	1	SMEETH	(8.) Patients ethnicity.
FACSTD	Num	8	MMDDYY	(25.) Date Patient Started at 2728 Provider.
FORMVERSION	Num	8		(CMS) Form Version: Pre-1995, 1995, 2005
GFR	Num	8		GFR calculated (Ab. Levey or Schwartz)
HBA1C	Num	8		(19.d) HbA1c value (%)
HBA1CDATE	Num	8	MMDDYY	(19.d.1) HbA1c Date
HEGLB	Num	8		(19.c) Hemoglobin Value (g/dl).
HEGLBDT	Num	8	MMDDYY	(19.c.1) Hemoglobin Date.

MEDEVID05: Medical Evidence form 2005 (continued)

Variable	Type	Length	Format	Comment
HEIGHT	Num	8		(13.) Patient Height. (cm)
HEMOHOURS	Num	8		(23.2) Primary Type of Dialysis: Hemodialysis- (Hours per session)
HEMOSESSIONS	Num	8		(23.1) Primary Type of Dialysis: Hemodialysis- (Sessions per week)
INC_AGE	Num	8		Age at incidence (ESRD date from profile)
INHOSP	Char	1		(CMS) Was patient admitted prior to the transplant.
LABMETHOD	Num	8		(19.a.3) Serum Albumin Lower Limit: Lab Method Used (BCG or BCP)
LIPIDPROFILEHDLDATE	Num	8	MMDDYY	(19.e.3.1) Lipid Profile HDL Date
LIPIDPROFILELDLDATE	Num	8	MMDDYY	(19.e.2.1) Lipid Profile LDL Date
LIPIDPROFILETC	Num	8		(19.e.1) Lipid Profile TC value (mg/dL)
LIPIDPROFILETCDATE	Num	8	MMDDYY	(19.e.1.1) Lipid Profile TC Date
LIPIDPROFILETG	Num	8		(19.e.4) Lipid Profile TG value (mg/dL)
LIPIDPROFILETGDATE	Num	8	MMDDYY	(19.e.4.1) Lipid Profile TG Date
LIPIDPROFILHDL	Num	8		(19.e.3) Lipid Profile HDL value (mg/dL)
LIPIDPROFILLDL	Num	8		(19.e.2) Lipid Profile LDL value (mg/dL)
MDCRCOD	Char	1	SYNUFMT	(11.) Patient is applying for ESRD Medicare.
MEDCOV_ADVANTAGE	Char	1		(12.) Patient is currently entitled to Federal Medicare Advantage benefits.
MEDCOV_GROUP	Char	1		(12.) Patient receives medical benefits through an employer group health plan.
MEDCOV_MEDDVA	Char	1		(12.) Patient is receiving medical care from a Department of Veterans Affairs facility.
MEDCOV_MEDICAID	Char	1		(12.) Patient is receiving state Medicaid benefits.
MEDCOV_MEDICARE	Char	1		(12.) Patient is currently entitled to Federal Medicare benefits.
MEDCOV_NONE	Char	1		(12.) Patient has no medical insurance plan.
MEDCOV_OTHER	Char	1		(12.) Patient is receiving other medical benefits.
MEDICALCOVERAGE	Char	13		(12.) Concatenates the patients Medical Coverage
MESEQ	Num	8		Number of Med Evidence forms filed
NEPHCARE	Num	8		(18.b) Was patient under care of a nephrologist?
NEPHCARERANGE	Num	8	RANGE	(18.b.1) Was patient under care of a nephrologist? If Yes, 6-12 or >12 months
NETWORK	Char	2	SNETFMTN	(55. - 1995 Form) Network Number.
PATINFORMED	Num	8		(26.) Has patient been informed of kidney transplant options?
PATNOTINFORMEDREASON	Char	10	SPATNOTI	(27.) Concatenates reason patient was NOT informed of transplant options
PATSIGN	Num	8	MMDDYY	(55.) Patient Signature Date.
PATTXOP_DECLINE	Char	1		(27.) Patient NOT informed of TX options: Patient declines information
PATTXOP_MEDUNFIT	Char	1		(27.) Patient NOT informed of TX options: Medically unfit
PATTXOP_OTHER	Char	1		(27.) Patient NOT informed of TX options: Other
PATTXOP_PHYSUNFIT	Char	1		(27.) Patient NOT informed of TX options: Psychologically unfit
PATTXOP_UNASSESSED	Char	1		(27.) Patient NOT informed of TX options: Patient has not been assessed
PATTXOP_UNSUTAGE	Char	1		(27.) Patient NOT informed of TX options: Unsuitable due to age
PDIS	Char	6	SDIAG	(15.) Primary Cause of Renal Failure
RACE	Char	9	SMERACE	(10.) Patients race.
RACEC	Char	9		(10.) Contanation of Patients race.
SERCR	Num	8		(19.b) Serum Creatine Value (mg/dl).
SERCRDT	Num	8	MMDDYY	(19.b.1) Serum Creatine Date.
SEX	Char	1	SMESSEX	7.) Patients gender.
SUB_CODE	Char	3		(CMS) Sub race code as assigned by each Network.
TDATE	Num	8	MMDDYY	(28.) Date of most recent transplant.
TRAINSET	Num	8	TRAINSET	(41.ab) Hemodialysis Training Setting: Home or Center
TRCERT	Char	1		(42.) Patient has/will complete training.
TRNEND	Num	8	MMDDYY	(43.) Dialysis Training End Date.
TRSTDAT	Num	8	MMDDYY	(40.) Dialysis Training Begin Date.
TXADMDT	Num	8	MMDDYY	(31.) Date patient entered prep hospital.
TYPE2728	Num	8	FORMTYPE	(A.) This Form is: Initial, Re-entitlement, or Supplemental
TYPTRN	Char	1	SMEDIATP	(41.) Self Dialysis Training Type.
USRDS_ID	Num	8	BEST	USRDS_ID
WEIGHT	Num	8		(14.) Patient Weight. (kg)

RESIDENC: Residence

Provides a longitudinal record to ZIP code level of each patient's place of residence.

Variable	Type	Length	Format	Comment
BEGRES	Num	8	DATE	Starting date for this period
COUNTY	Char	5		County (FIPS code)
ENDRES	Num	8	DATE	Ending date for this period
FSD	Num	8	MMDDYY	First ESRD service during this period
NETWORK	Char	2	\$NETFMT	ESRD Network
STATE	Char	2	\$STATFIP	State (FIPS code)
USA	Char	1		In USA? (Y/N)
USRDS_ID	Num	8	BEST	USRDS_ID
ZIPCODE	Char	10	\$	ZIP_ZIPCODE

FACILITY: CMS/CDC ESRD Annual Facility

The CMS ESRD Annual Facility Survey and the CDC Dialysis Surveillance Survey are the sources of survey data for the Facility SAF, which can be linked to the Facility Cost Report files using the USRDS provider ID. Because of this link, geographic variables that could be used to identify facilities have been deleted. The survey period is January 1 through December 31.

Variable	Type	Length	Format	Comment
BEG_TOT	Num	8	BEST	03 Total
CADDONOR	Num	8	BEST	49 Cadaveric Donor
CAPD	Char	1	SYNYNFMT	CAPD Indicator
CAPHOME	Num	8	BEST	23 Home Dialysis - CAPD
CAPINTRG	Num	8	BEST	18 Self Dialysis Training - CAPD
CATRAIND	Num	8	BEST	32 CAPD
CATRGTRT	Num	8	BEST	40 CAPD
CCPD	Char	1	SYNYNFMT	CCPD Indicator
CCPHOME	Num	8	BEST	24 Home Dialysis - CCPD
CCPINTRG	Num	8	BEST	19 Self Dialysis Training - CCPD
CCTRAIND	Num	8	BEST	33 CCPD
CCTRGTRT	Num	8	BEST	41 CCPD
CERTCODE	Char	1	\$FSCERT	Certification Type
CERTDATE	Num	8	DATE	Date of Cert. to provide renal serv.
CHAIN_ID	Char	10		Chain ID
CTR_LOSS	Num	8	BEST	56 Non-Viable Kidneys
CTR_OUT	Num	8	BEST	55 Sent Outside the U.S.
CTR_SENT	Num	8	BEST	* Total Sent (54+55)
CTR_TOT	Num	8	BEST	57 Total
CTR_US	Num	8	BEST	54 Sent to Another U.S. facility
CTRTXPLT	Num	8	BEST	53 Transplanted at this facility
DMEDAPPR	Num	8	BEST	27 Currently enrolled in Medicare
DMEDPEND	Num	8	BEST	28 Medicare Application Pending
DNONMED	Num	8	BEST	29 Non-Medicare
DREUSE	Num	8		Did facility reuse dialyzers
DSTCNTCT	Num	8		# of staff having contact w/pts or eqp.
DSTVAC	Num	8		# staff ever receiving 3 doses Hep B vac
DX_WAIT	Num	8	BEST	51 Dialysis
DXGERMA	Num	8		1=yes 0=no Indicator var Amuchina
DXGERMF	Num	8		1=yes 0=no Indicator var Formaldehyde
DXGERMG	Num	8		1=yes 0=no Indicator var Glutaraldehyde
DXGERMH	Num	8		1=yes 0=no Indicator var Heat
DXGERMO	Num	8		1=yes 0=no Indicator var Other
DXGERMR	Num	8		1=yes 0=no Indicator var Renalin
END_TOT	Num	8	BEST	26 Total Patients
FS_YEAR	Char	4	\$	Facility Survey Survey Year
FYEND	Char	4	\$	MMDD of Fiscal Year End
H4HDHMDY	Num	8		30B Home pts dialyzing during the day
H4HDHMNT	Num	8		31B Home pts dialyzing during at night
H4HDICDY	Num	8		30A In-ctr pts dialyzing during the day
H4HDICNT	Num	8		31A In-ctr pts dialyzing during at night
HAPNFT	Num	8		Advanced Practice Nurses on staff FTime
HAPNPT	Num	8		Advanced Practice Nurses on staff PTime
HDIETFT	Num	8		Dieticians on staff full-time
HDIETPT	Num	8		Dieticians on staff part-time
HEDUFTPT	Num	8		35 Pts attending school full/ part time
HEMHOME	Num	8	BEST	21 Home Dialysis - Hemo
HEMINTRG	Num	8	BEST	16 Self Dialysis Training - Hemo
HEMO	Char	1	SYNYNFMT	Staff Assisted Hemo. Indicator
HEMOSC	Char	1	SYNYNFMT	In-Unit Self-Care Hemo. Indicator
HEMOTRNG	Char	1	SYNYNFMT	Hemo. Training Indicator
HEMPFTPT	Num	8		34 VOC/REHAB pts employed full/part time
HEMSLSTF	Num	8	BEST	14 Outpatient Dialysis - Hemo
HLPNFT	Num	8		Licensed Practical/Visiting Nurses FTime
HLPNPT	Num	8		Licensed Practical/Visiting Nurses PTime
HOAPNFT	Num	8		APN full-time positions open
HOAPNPT	Num	8		APN part-time positions open
HODIETFT	Num	8		Dieticians full-time positions open
HODIETPT	Num	8		Dieticians part-time positions open
HOLPNFT	Num	8		LPN/LVN full-time positions open
HOLPNPT	Num	8		LPN/LVN part-time positions open

FACILITY: CMS/CDC ESRD Annual Facility (continued)

Variable	Type	Length	Format	Comment
HOPCTFT	Num	8		PCT full-time positions open
HOPCTPT	Num	8		PCT part-time positions open
HORNFT	Num	8		RN full-time positions open
HORNPT	Num	8		RN part-time positions open
HOSWFT	Num	8		Social Workers full-time positions open
HOSWPT	Num	8		Social Workers part-time positions open
HPAT1854	Num	8		32 Patients aged 18 through 54
HPATVOC	Num	8		33 Patients receiving vocational rehab
HPCFTF	Num	8		Patient Care Technicians on staff FTime
HPCTPT	Num	8		Patient Care Technicians on staff PTime
HRNFT	Num	8		Registered Nurses on staff full-time
HRNPT	Num	8		Registered Nurses on staff part-time
HSWFT	Num	8		Social Workers on staff full-time
HSWPT	Num	8		Social Workers on staff part-time
HTRGTRT	Num	8	BEST	38 Hemodialysis
IH_BEG	Num	8	BEST	02 Home
IH_DEATH	Num	8	BEST	08B Home - Deaths
IH_DISCO	Num	8	BEST	12B Home - Discontinued Dialysis
IH_END	Num	8	BEST	25 Total Home Dialysis
IH_LTFU	Num	8	BEST	13B Home - Other (LTFU)
IH_RECOV	Num	8	BEST	09B Home - Recovered Kidney Function
IH_RETTX	Num	8	BEST	07B Home - Returned after TX
IH_START	Num	8	BEST	04B Home-Started for first time ever
IH_TRFIN	Num	8	BEST	06B Home - Transferred In
IH_TXPLT	Num	8	BEST	10B Home - Received Transplant
IHRESTRT	Num	8	BEST	05B Home - Restarted
IHTRFOUT	Num	8	BEST	11B Home - Transferred to Another Unit
INCDC	Num	8		Data present in CDC survey 1=yes 0=no
IND_LOSS	Num	8	BEST	66 Non-Viable Kidneys
IND_OUT	Num	8	BEST	65 Sent Outside the U.S.
IND_SENT	Num	8	BEST	* Total Sent (64+65)
IND_TOT	Num	8	BEST	67 Total
IND_US	Num	8	BEST	64 Sent to Another U.S. facility
INDTXPLT	Num	8	BEST	63 Transplanted at this facility
INHCFA	Num	8		Data present in HCFA survey 1=yes 0=no
IU_BEG	Num	8	BEST	01 In-Unit
IU_DEATH	Num	8	BEST	08A In-Unit - Deaths
IU_DISCO	Num	8	BEST	12A In-Unit - Discontinued Dialysis
IU_END	Num	8	BEST	20 Total Outpatient Dialysis
IU_LTFU	Num	8	BEST	13A In-Unit - Other (LTFU)
IU_RECOV	Num	8	BEST	09A In-Unit - Recovered Kidney Function
IU_RETTX	Num	8	BEST	07A In-Unit - Returned after TX
IU_START	Num	8	BEST	04A In-Unit -Started for first time Ever
IU_TRFIN	Num	8	BEST	06A In-Unit - Transferred In
IU_TXPLT	Num	8	BEST	10A In-Unit - Received Transplant
IURESTRT	Num	8	BEST	05A In-Unit - Restarted
IUTRFOUT	Num	8	BEST	11A In-Unit - Transferred to Another Unit
LIVDONOR	Num	8	BEST	* Total Living Donor (47+48)
MED_VA	Char	1	SMEDVA	Non-MC Renal Facility for which HCFA rec
NETWORK	Char	2	S	ESRD Network Number
NTH_LOSS	Num	8	BEST	71 Non-Viable Kidneys
NTH_OUT	Num	8	BEST	70 Sent Outside the U.S.
NTH_SENT	Num	8	BEST	* Total Sent (69+70)
NTH_TOT	Num	8	BEST	72 Total
NTH_US	Num	8	BEST	69 Sent to Another U.S. facility
NHTXPLT	Num	8	BEST	68 Transplanted at this facility
NU_HBFS	Num	8		1=Hopsital-based, 2=Freestanding
NU_P_NP	Char	10		FOR-PROFIT / NON-PROFIT indicator
OP_HTRT	Num	8	BEST	36 Hemodialysis
OP_PTRT	Num	8	BEST	37 IPD
OPA_LOSS	Num	8	BEST	61 Non-Viable Kidneys
OPA_OUT	Num	8	BEST	60 Sent Outside the U.S.
OPA_SENT	Num	8	BEST	* Total Sent (59+60)
OPA_TOT	Num	8	BEST	62 Total

FACILITY: CMS/CDC ESRD Annual Facility (continued)

Variable	Type	Length	Format	Comment
OPA_US	Num	8	BEST	59 Sent to Another U.S. facility
OPATXPLT	Num	8	BEST	58 Transplanted at this facility
OTH_WAIT	Num	8	BEST	52 Non-Dialysis
PCRTCODE	Char	1	SFSCERT	Prior certification type
PCRTDATE	Num	8	BEST	Prior certification date
PERHOME	Num	8	BEST	22 Home Dialysis - IPD
PERI	Char	1	SYNYNFMT	Staff Assisted Peri. Indicator
PERINTRG	Num	8	BEST	17 Self Dialysis Training - IPD
PERISC	Char	1	SYNYNFMT	In-Unit Self-Care Peri. Indicator
PERITRNG	Char	1	SYNYNFMT	Peri. Training Indicator
PERSLSTF	Num	8	BEST	15 Outpatient Dialysis - IPD
PROVST	Char	2	\$	State Abbreviation
PROVUSRD	Num	8	BEST	USRDS Assigned Facility ID
PTRGTRT	Num	8	BEST	39 IPD
PTRMCODE	Char	1	\$TERMCOD	Prior Termination reason
PTRMDATE	Num	8	BEST	Prior Termination Date
RLIVDONR	Num	8	BEST	47 Living Related
SHTRAIND	Num	8	BEST	30 Hemodialysis
SPTRAIND	Num	8	BEST	31 IPD
SURVCERT	Char	1	SFSCERT	Cert. Type for Fac. Survey Purposes
TDSCRD	Num	8	BEST	78 Discarded Kidneys
TERMCODE	Char	1	\$TERMCOD	Reason facility terminated
TERMDATE	Num	8	DATE	Termination Date
TMEDAPPR	Num	8	BEST	43 Currently Enrolled in Medicare
TMEDPEND	Num	8	BEST	44 Medicare Application Pending
TNONMED	Num	8	BEST	* Total Non-Medicare (45+46)
TONONMED	Num	8	BEST	46 Non-Medicare - Other
TOT_LOSS	Num	8	BEST	76 Non-Viable Kidneys
TOT_OUT	Num	8	BEST	75 Sent Outside the U.S.
TOT_SENT	Num	8	BEST	* Total Sent (74+75)
TOT_TXPL	Num	8	BEST	50 Total (sum of 47 thru 49)
TOT_US	Num	8	BEST	74 Sent to Another U.S. facility
TOTSTAS	Num	8	BEST	Total Number of Dialysis Stations
TOTTXPLT	Num	8	BEST	73 Transplanted at this facility
TRSCRCH	Num	8	BEST	77 Used for research
TRSL_PAT	Num	8	BEST	34 Treated during Survey Period
TRSL_TRT	Num	8	BEST	35 Number of outpatient treatments
TUNONMED	Num	8	BEST	45 Non-Medicare - U.S. Resident
TXPL_PAT	Num	8	BEST	42 Patients transplanted at this facil.
TYPOWNER	Char	2	SFSOWN	Type of Ownership
ULIVDONR	Num	8	BEST	48 Living Unrelated
ZIPCODE	Char	5	\$	Zip Code of Facility

WAITLIST_KI: Transplant Waiting List (Kidney)

Contains one record for each patient per waiting list event in the USRDS database who can also be identified on the kidney transplant waiting list maintained by UNOS.

Variable	Type	Length	Format	Comment
ABO	Char	3		SBLOOD Blood Type
ADATE	Num	8	MMDDYY	Activation Date
CPRA	Num	8		Current PRA
DOB	Num	8	MMDDYY	Patient Date of Birth
EDATE	Num	8	MMDDYY	Listing Date
HGT	Num	8		Height in Centimeters
HISP	Char	1	SPMETHN	Hispanic/Non-Hispanic
ON_EXPAND_DONOR	Char	1		Accept Local Expanded Criteria Donor (ECD) Kidney
ON_IEXPAND_DONOR	Char	1		Accept Imported Expanded Criteria Donor (ECD) Kidney
ORG_TYP	Char	4	SORGTP	Waitlist Organ
PID	Num	8		UNOS Patient ID
PPRA	Num	8		Peak PRA
PROVUSRD	Num	8	BEST	USRDS Assigned Listing Center Facility ID
RA1	Num	8		A Antigen
RA2	Num	8		A Antigen
RACE	Char	1	SRACEFMT	Patient Race
RB1	Num	8		B Antigen
RB2	Num	8		B Antigen
RDR1	Num	8		DR Antigen
RDR2	Num	8		DR Antigen
REMCODE	Num	8	REMCOD	Removal Code
REMDATE	Num	8	MMDDYY	Removal Date
SEX	Char	1	SSEXFMT	Patient Gender
TDATE	Num	8	MMDDYY	Transplant Date
TRR_ID	Num	8		Transplant Recipient Registration Primary Record Key
USRDS_ID	Num	8	BEST	Patient ID Assigned By USRDS
WAIT_STAT	Char	1		Waitlist Status (A = Active R = Removed)
WGT	Num	8		Weight in Kilograms

WAITLIST_KP: Transplant Waiting List (Kidney/Pancreas)

Contains one record for each patient per waiting list event in the *USRDS* database who can also be identified on the kidney transplant waiting list maintained by *UNOS*.

Variable	Type	Length	Format	Comment
ABO	Char	3		\$BLOOD Blood Type
ADATE	Num	8	MMDDYY	Activation Date
CPRA	Num	8		Current PRA
DOB	Num	8	MMDDYY	Patient Date of Birth
EDATE	Num	8	MMDDYY	Listing Date
HGT	Num	8		Height in Centimeters
HISP	Char	1	\$PMETHN	Hispanic/Non-Hispanic
ON_EXPAND_DONOR	Char	1		Accept Local Expanded Criteria Donor (ECD) Kidney
ON_IEXPAND_DONOR	Char	1		Accept Imported Expanded Criteria Donor (ECD) Kidney
ORG_TYP	Char	4	\$ORGTP	Waitlist Organ
PID	Num	8		UNOS Patient ID
PPRA	Num	8		Peak PRA
PROVUSRD	Num	8	BEST	USRDS Assigned Listing Center Facility ID
RA1	Num	8		A Antigen
RA2	Num	8		A Antigen
RACE	Char	1	\$RACEFMT	Patient Race
RB1	Num	8		B Antigen
RB2	Num	8		B Antigen
RDR1	Num	8		DR Antigen
RDR2	Num	8		DR Antigen
REMCODE	Num	8	REMCN	Removal Code
REMDATE	Num	8	MMDDYY	Removal Date
SEX	Char	1	\$SEXFMT	Patient Gender
TDATE	Num	8	MMDDYY	Transplant Date
TRR_ID	Num	8		Transplant Recipient Registration Primary Record Key
USRDS_ID	Num	8	BEST	Patient ID Assigned By USRDS
WAIT_STAT	Char	1		Waitlist Status (A = Active R = Removed)
WGT	Num	8		Weight in Kilograms

WAITSEQ_KI: Transplant Waiting List Sequence (Kidney)

A condensed kidney transplant waiting list date sequence file, center-specific and containing beginning and ending dates for each patient at each transplant center where patients are registered on the waiting list. Investigators who wish to investigate the raw UNOS kidney waiting list file should refer to WAITLIST_KI. Also refer to Transplant Process and Outcomes, for a more detailed description of these files.

Variable	Type	Length	Format	Comment
BEGIN	Num	8	MMDDYY	A New Waiting Period Starting Date
ENDING	Num	8	MMDDYY	A New Waiting Period Ending Date
PID	Num	8		Patient ID Assigned By UNOS
PROVUSRD	Num	8	BEST	Listing Center Facility ID Assigned By USRDS
USRDS_ID	Num	8	BEST	Patient ID Assigned By USRDS

WAITSEQ_KP: Transplant Waiting List Sequence (Kidney/Pancreas)

A condensed kidney/pancreas transplant waiting list date sequence file, center-specific and containing beginning and ending dates for each patient at each transplant center where patients are registered on the waiting list. Investigators who wish to investigate the raw UNOS kidney/pancreas waiting list file should refer to WAITLIST_KP. Also refer to Transplant Process and Outcomes, for a more detailed description of these files.

Variable	Type	Length	Format	Comment
BEGIN	Num	8	MMDDYY	A New Waiting Period Starting Date
ENDING	Num	8	MMDDYY	A New Waiting Period Ending Date
PID	Num	8		Patient ID Assigned By UNOS
PROVUSRD	Num	8	BEST	Listing Center Facility ID Assigned By USRDS
USRDS_ID	Num	8	BEST	Patient ID Assigned By USRDS

CORE CD-3***RXHIST: Detailed Treatment History***

Also called the Modality Sequence file; contains a new record for each patient at each change in treatment modality or dialysis provider.

Variable	Type	Length	Format	Comment
BEGDATE	Num	8	MMDDYY	Start date of this period
BEGDAY	Num	4		Start day of this period (start ESRD=1)
ENDDATE	Num	8	MMDDYY	End date of this period
ENDDAY	Num	4		End day of this period (start ESRD=1)
PROVUSRD	Num	8	BEST	USRDS Assigned Facility ID
RXDETAIL	Char	2	SRXCATDT	Treatment modality this period (detail)
RXGROUP	Char	1	SRXCATGP	Treatment modality (training recoded)
USRDS_ID	Num	8	BEST	USRDS_ID

ADEQUACY: Case Mix Adequacy Special Study

Contains the Case Mix Adequacy Special Study file and extracts data from all other SAFs for the patients in this study. All data on Medicare and payments for these patients are followed to the currently reported claims year. Along with analyses related to the study itself, this file is useful for developing analyses that will alter and be run on the full Medicare payment files.

Variable	Type	Length	Format	Comment
ABS_PULS	Char	1	SYESNO	AQP B 4c: Absent foot pulses
ACCESS1	Char	1	SVASCFMT	AQP C 5h: Vascular access (1)
ACCESS2	Char	1	SVASCFMT	AQP C 5h: Vascular access (2)
AFT_WTKG	Num	8	BEST	AQP C 2: Dry weight - kilograms
AFT_WTLB	Num	8	BEST	AQP C 2: Dry weight - pounds
AIDS	Char	1	SAIDSFMT	AQP B12: Diagnosed with AIDS?
ALONE	Char	1	SLIVFMT	AQP C 9: Living alone
AMPUTATA	Char	1	SSUSPCT	AQP B 4b: Amputation due to PVD
AN_GRABN	Char	1	SYESNO	AQP B 2e: Angiography abnormal?
ANGINA	Char	1	SSUSPCT	AQP B 2b: Angina
ANGIOGRA	Char	1	SYESNO	AQP B 2e: Coronary angiography
ANGIOPLA	Char	1	SYESNO	AQP B 2d: Coronary angioplasty
ARRHYTHM	Char	1	SSUSPCT	AQP B 5e: Arrhythmia
ARTERLO	Char	1	SYESNO	AQP B 4e: Arteriography
ASTHMA	Char	1	SSUSPCT	AQP B 8b: Asthma
ATR_FIBR	Char	1	SSUSPCT	AQP B 5d: Atrial fibrillation
BFR	Num	8	BEST	AQP C 5f: Blood flow rate
BILIRUB	Num	8	BEST	AQP D 3: Bilirubin total
BLUECROS	Char	1	\$	AQP A12a: Blue Cross
BUN1	Num	8	DATE	AQP D12: Date of BUN 1
BUN2	Num	8	DATE	AQP D12: Date of BUN 2
BUN3	Num	8	DATE	AQP D12: Date of BUN 3
BUN4	Num	8	DATE	AQP D12: Date of BUN 4
BUN5	Num	8	DATE	AQP D12: Date of BUN 5
BUN6	Num	8	DATE	AQP D12: Date of BUN 6
BUN_O1	Num	8	BEST	AQP D15: PRE BUN one month after onset
BUN_O2	Num	8	BEST	AQP D15: POST BUN one month after onset
BUN_O3	Num	8	BEST	AQP D15: PRE* BUN one month after onset
CABG	Char	1	SYESNO	AQP B 2c: Bypass Surgery
CARDARR	Char	1	SYESNO	AQP B 2f: Cardiac arrest
CEREBROV	Char	1	SSUSPCT	AQP B 3a: Cerebrovascular Accident
CHD_CAD	Char	1	SSUSPCT	AQP B 2a: Prior Dx of CHD/CAD
CHOLEST	Num	8	BEST	AQP D 5a: Cholesterol
CIRRHOS	Char	1	SSUSPCT	AQP B10b: Cirrhosis
CLAUDIC	Char	1	SYESNO	AQP B 4d: Claudication
COMPDATE	Num	8	DATE	AQP A 3: Date of Completion
CONG_HRT	Char	1	SSUSPCT	AQP B 5a: Congestive heart failure
COPD	Char	1	SSUSPCT	AQP B 8a: Chronic obst pulm disease
CREAT1	Num	8	BEST	AQP D10: Serum Creatinine, predialysis
DIAB_RET	Char	1	SSUSPCT	AQP B 7d: Diabetic retinopathy
DIALYSAT	Char	1	\$DISATE	AQP C 5a: Dialysate
DIALYZER	Char	3	\$	AQP C 5g: Dialyzer type
DUR_DIAB	Char	2	\$	AQP B 7b: Duration of Diabetes (years)
DUR_HYPR	Char	2	\$	AQP B 6b: Duration hypertension (years)
DX_DIAB	Char	1	SSUSPCT	AQP B 7: Prior Dx of Diabetes
EARLDIAL	Num	8	DATE	AQP A10b: Date earliest Dialysis
ECHOCARD	Char	1	SYESNO	AQP D2b: LVH by echocardiography
EDUCAT	Char	1	SEDUC	AQP C12: Education
EKG	Char	1	SYESNO	AQP D2a: LVH by EKG
EPO	Char	1	SYESNO	AQP D 9: Taking EPO at SSD
ETHNIC	Char	1	SETHFMT	AQP A13: Ethnicity (Hispanic or not)
EVREMPV	Char	1	SEMPLOY	AQP C11a: Highest emp level EVER
FID	Char	6	\$	AQP Pg1: Unique Form ID
FIRSDIAL	Num	8	DATE	AQP A10a: Date First Dialysis
HBSAG	Char	1	\$HBSAG	AQP D 4: HBsAG
HEMATO	Num	8	BEST	AQP D 8: Hematocrit
HEMO_HRS	Num	8	BEST	HEMO_HRS
HEMO_MIN	Num	8	BEST	AQP C 5b: Prescribed mins. per treatmen
HEPATIT	Char	1	SSUSPCT	AQP B10a: Hepatitis
HHEMO	Num	8	DATE	AQP E3: Date of switch to home hemo
HIV	Char	1	\$HIVFMT	AQP B11: HIV Status

ADEQUACY: Case Mix Adequacy Special Study (continued)

Variable	Type	Length	Format	Comment
HOUSMEMB	Num	8	BEST	AQP C10: Household members
HT_CM	Num	8	BEST	AQP C 1: Height - cm.
HT_FT	Num	8	BEST	HT_FT
HT_IN	Num	8	BEST	HT_IN
HX_HYPER	Char	1	SSUSPCT	AQP B 6: History of hypertension
IND_AMBU	Char	1	SYESNO	AQP C 7c: Independent Ambulating
IND_EAT	Char	1	SYESNO	AQP C 7a: Independent eating
IND_XFER	Char	1	SYESNO	AQP C 7b: Independent transferring
INSSD	Num	8	DATE	AQP A11: SSD per instructions
INSULIN	Char	1	SINSLFMT	AQP B 7e: Insulin therapy ever
LASTDI	Num	8	DATE	AQP E7: Date of last known dialysis
LSTFU	Num	8	DATE	AQP E6: Date lost to Follow-up
MAR_STAT	Char	1	\$MARSTAT	AQP C 8: Marital status
MEDICAID	Char	1	\$	AQP A12c: Medicaid
MEDICARE	Char	1	\$	AQP A12b: Medicare
METASTAS	Char	1	SYESNO	AQP B 9c: Known metastases
MI	Char	1	SYESNO	AQP B 2g: Myocardial infarction
MIDATE	Char	4	\$	AQP B 2g: Date of last MI
NEO_DATE	Char	4	\$	AQP B 9b: Date of first neoplasm Dx
NEO_TYPE	Char	20	\$	AQP B 9a: Neoplasm primary site/type
NEOPLASM	Char	1	SSUSPCT	AQP B 9: Neoplasms
NEWID	Char	6	\$	AQP Pg1: Numeric portion of FID
NO_INS	Char	1	\$	AQP A12g: No insurance
NUMTRANS	Num	8	BEST	AQP D 8b: Number of Trans received
NUT_STAT	Char	1	\$NUTFMT	AQP C 3: Nutritional Status
OCCUPAT	Char	1	\$OCCUP	AQP C13: Occupation level before ESRD
OTH_INS	Char	1	\$	AQP A12f: Other insurance
OXYGEN	Char	1	SSUSPCT	AQP B 8c: Home oxygen prescribed
PERICARD	Char	1	SSUSPCT	AQP B 5c: Pericarditis
PERIDATE	Char	4	SSUSPCT	AQP B 5c: date Pericarditis diagnosis
PERIDIA	Num	8	DATE	AQP E2: Date of switch to PD
PHOSPH	Num	8	BEST	AQP D 7: Serum phosphorous
POSTBUN1	Num	8	BEST	AQP D12: BUN postdialysis (1)
POSTBUN2	Num	8	BEST	AQP D12: BUN postdialysis (2)
POSTBUN3	Num	8	BEST	AQP D12: BUN postdialysis (3)
POSTBUN4	Num	8	BEST	AQP D12: BUN postdialysis (4)
POSTBUN5	Num	8	BEST	AQP D12: BUN postdialysis (5)
POSTBUN6	Num	8	BEST	AQP D12: BUN postdialysis (6)
POSTWT_1	Num	8	BEST	AQP D12: Weight postdialysis (1)
POSTWT_2	Num	8	BEST	AQP D12: Weight postdialysis (2)
POSTWT_3	Num	8	BEST	AQP D12: Weight postdialysis (3)
POSTWT_4	Num	8	BEST	AQP D12: Weight postdialysis (4)
POSTWT_5	Num	8	BEST	AQP D12: Weight postdialysis (5)
POSTWT_6	Num	8	BEST	AQP D12: Weight postdialysis (6)
PRE_DBP	Num	8	BEST	AQP C 4a: DBP at SSD / predialysis
PRE_SBP	Num	8	BEST	AQP C 4a: SBP at SSD / predialysis
PREBUN1A	Num	8	BEST	AQP D12: Second BUN predialysis (1)
PREBUN2A	Num	8	BEST	AQP D12: Second BUN predialysis (2)
PREBUN3A	Num	8	BEST	AQP D12: Second BUN predialysis (3)
PREBUN4A	Num	8	BEST	AQP D12: Second BUN predialysis (4)
PREBUN5A	Num	8	BEST	AQP D12: Second BUN predialysis (5)
PREBUN6A	Num	8	BEST	AQP D12: Second BUN predialysis (6)
PREBUN_1	Num	8	BEST	AQP D12: First BUN predialysis (1)
PREBUN_2	Num	8	BEST	AQP D12: First BUN predialysis (2)
PREBUN_3	Num	8	BEST	AQP D12: First BUN predialysis (3)
PREBUN_4	Num	8	BEST	AQP D12: First BUN predialysis (4)
PREBUN_5	Num	8	BEST	AQP D12: First BUN predialysis (5)
PREBUN_6	Num	8	BEST	AQP D12: First BUN predialysis (6)
PREWT_1	Num	8	BEST	AQP D12: First Weight predialysis (1)
PREWT_2	Num	8	BEST	AQP D12: First Weight predialysis (2)
PREWT_3	Num	8	BEST	AQP D12: First Weight predialysis (3)
PREWT_4	Num	8	BEST	AQP D12: First Weight predialysis (4)
PREWT_5	Num	8	BEST	AQP D12: First Weight predialysis (5)
PREWT_6	Num	8	BEST	AQP D12: First Weight predialysis (6)

ADEQUACY: Case Mix Adequacy Special Study (continued)

Variable	Type	Length	Format	Comment
PREWT_1A	Num	8	BEST	AQP D12: Second Weight predialysis (1)
PREWT_2A	Num	8	BEST	AQP D12: Second Weight predialysis (2)
PREWT_3A	Num	8	BEST	AQP D12: Second Weight predialysis (3)
PREWT_4A	Num	8	BEST	AQP D12: Second Weight predialysis (4)
PREWT_5A	Num	8	BEST	AQP D12: Second Weight predialysis (5)
PREWT_6A	Num	8	BEST	AQP D12: Second Weight predialysis (6)
PRIVATE	Char	1	\$	AQP A12d: Private
PST_DBP	Num	8	BEST	AQP C 4b: DBP at SSD / postdialysis
PST_SBP	Num	8	BEST	AQP C 4b: SBP at SSD / postdialysis
PSYCH_EV	Num	8	DATE	AQP C 6: Date Pyscho-social evaluation
PULM_EDE	Char	1	SSUSPCT	AQP B 5b: Pulmonary edema
PVD	Char	1	SSUSPCT	AQP B 4a: Peripheral Vascular Disease
RECOVER	Num	8	DATE	AQP E5: Date of Recov Renal Function
REUSE	Char	1	SYESNO	AQP C 5d: Reuse of dialyzer
S_BIRTH	Num	8	DATE	AQP A 9: Date of Birth
S_DIED	Num	8	DATE	AQP E4: Date of Death
S_NETWK	Char	2	SNETFMT	AQP A 1: Network
S_SEX	Char	1	SGENDFMT	AQP A 4: Patients sex
S_TDATE	Num	8	DATE	AQP E1: Transplant Date
SER_ALBU	Num	8	BEST	AQP D11: Serum Albumin
SESSIONS	Num	8	BEST	AQP C 5c: No. sessions per week
SHRTDIAL	Char	2	\$	AQP D13: No. of treat short by 10min
SKIPDIAL	Char	2	\$	AQP D14: No. of treat skipped
SMOKING	Char	1	SSMOKFMT	AQP B 1: Smoking status
SSD	Num	8	DATE	AQP Pg1: Study Start Date
SSD2	Num	8	DATE	AQP Pg2: SSD page 2
SSD3	Num	8	DATE	AQP Pg3: SSD page 3
SSDEMPLV	Char	1	SEMPLOY	AQP C11b: Emp level at SSD
SUGAR	Num	8	BEST	AQP D 6: Highest blood sugar
TIA	Char	1	SSUSPCT	AQP B 3b: Transient ischeimc attacks
TRANS	Char	1	SYESNO	AQP D 8a: Transfusion / 30 days of SSD
TRIGLY	Num	8	BEST	AQP D 5b: Triglycerides
TRT_HYP	Char	1	SYESNO	AQP B 6c: Hypertension at time of SSD
TYP_DIAB	Char	1	STYPDIAB	AQP B 7c: Type of diabetic
TYPE700	Char	10	\$	AQP C 5g: Specific Code 700 dialyzer
UNITSKGS	Char	1	\$	AQP D12: Units of measurement-kilograms
UNITSLBS	Char	1	\$	AQP D12: Units of measurement-pounds
USRDS_ID	Num	8	BEST	USRDS patient ID number
USRDSPRO	Num	8	BEST	USRDS provider ID number
VA	Char	1	\$	AQP A12e: VA
WTLOSSKG	Num	8	BEST	AQP C 5e: Highest wt loss - kgs.
WTLOSSLB	Num	8	BEST	HIGHEST_WT_LOSS_IN_LB
XRAY	Char	1	SYESNO	AQP D 1: Cardiomegaly by X-ray
YR_DIAB	Char	2	\$	AQP B 7a: Year of Dx of Diabetes
YR_HYPER	Char	2	\$	AQP B 6a: Year hypertension diagnosis

ADQFACS: Case Mix Adequacy Special Study Facility

Contains the Case Mix Adequacy Special Study file and extracts data from all other SAFs for the patients in this study. All data on Medicare and payments for these patients are followed to the currently reported claims year. Along with analyses related to the study itself, this file is useful for developing analyses that will alter and be run on the full Medicare payment files.

Variable	Type	Length	Format	Comment
ABSTINIT	Char	2	\$	AQF 2: Abstractor
BLEACH	Char	1	SYN12FMT	AQF 7c1: Bleach Used
CHARCOAL	Char	1	SYN12FMT	AQF 9b: Activated Charcoal Used
COMPDATE	Num	8	DATE	AQF 3: Date fac form compl
DEIONIZE	Char	1	SYN12FMT	AQF 9d: Dionization Used
FORMALIN	Char	1	SYN12FMT	AQF 7c2: Formalin Used
GLUTARAL	Char	1	SYN12FMT	AQF 7c4: Glutaraldehyde Used
PROVUSRD	Num	8	BEST	USRDS provider ID number
RENALIN	Char	1	SYN12FMT	AQF 7c3: Renalin Used
REUSETEC	Char	1	\$REU_TEC	AQF 7b: Reuse Technique
REVOSMOS	Char	1	SYN12FMT	AQF 9c: Reverse Osmosis Used
S_NETWORK	Char	2	\$NETFMT	AQF 1: Network
SOFTENER	Char	1	SYN12FMT	AQF 9a: Water Softener Used
STOPREUS	Num	8	DATE	AQF 7a: Date Reuse Stopped
STRTREUS	Num	8	DATE	AQF 7a: Date Reuse Started
TOPRESNT	Char	1	\$	AQF 7a: Reuse through to present
UKMODEL	Char	1	\$	AQF 6: Urea Kinetic Modeling
ULTRFILT	Char	1	SYN12FMT	AQF 9e: Ultrafilter Used
UNITREUS	Char	1	\$	AQF 7: Reuse at Unit
WATERSRC	Char	1	\$WAT_SRC	AQF 8: Water Source 1:public 2:well

CAPD: CAPD Peritonitis Special Study

The USRDS CAPD and Peritonitis Rates Study examined the relationship of peritonitis episodes in CAPD patients to the connection device technology and other factors.

Variable	Type	Length	Format	Comment
ANT_TUB	Char	1	SYNUFMT	CAP 20c: TUBING ANTISEPTIC USED
ANT_TYP	Char	1	SANTISEP	CAP 20d: TYPE OF TUBING ANTISEPTIC USED
BORN	Num	8	MMDDYY	Birth Date
BRAND	Char	25	\$	CAP 20b: BRAND NAME OF FIRST TECHNIQUE
CAPHOME	Num	8		CAP 19: CAPD HOME METHOD
CATH_BY	Char	1	SCATHBY	CAP 16: CATHETER PLACED BY
CATH_DAT	Num	8	MMDDYY	CAP 17b: CATHETER REMOVAL DATE
CATH_INS	Num	8	MMDDYY	CAP 13: CATHETER INSERTION DATE
CATH_PA	Char	1	SYNUFMT	CAP 15b: PROPHYLACTIC ANTIBIOTICS USED
CATH_REM	Char	1	SYNUFMT	CAP 17a: CATHETER REMOVED
CATH_TEC	Char	1	SCATHTEC	CAP 15a: CATHETER INSERTION TECHNIQUE
CATH_TYP	Char	2	SCATHFMT	CAP 14a: CATHETER TYPE USED
CCPHOME	Num	8		CCPD HOME METHOD
COMBINED	Num	8	BEST	NUMBER OF CAPD+CCPD PATIENTS AT UNIT
COMPDATE	Num	8	MMDDYY	CAP 4: Date completed
CPDISGRP	Num	8		CPDISGRP
CUFF	Char	1	SCUFFFMT	CAP 14b: NUMBER AND FORM OF CUFFS
CUFF_PLC	Char	1	SCUFFPLC	CAP 14c: DEEP CUFF PLACEMENT
ENDOBS	Char	1	SCATHREM	CAP 21: CURRENT DATE IS END OF OBS. PERI
EPI1	Num	8	MMDDYY	CAP 24a1: 1ST EPISODE START DATE
EPI2	Num	8	MMDDYY	CAP 24a2: 2ND EPISODE START DATE
EPI3	Num	8	MMDDYY	CAP 24a3: 3RD EPISODE START DATE
EPI4	Num	8	MMDDYY	CAP 24a4: 4TH EPISODE START DATE
EPI5	Num	8	MMDDYY	CAP 24a5: 5TH EPISODE START DATE
EPI6	Num	8	MMDDYY	CAP 24a6: 6TH EPISODE START DATE
EPI1_DCR	Char	1	SDCRFMT	CAP 24e1: 1ST EPISODE, DIALYSATE CULT RE
EPI1_EXT	Char	1	SYNUFMT	CAP 24b1: 1ST EPISODE, EXIT/TUNNEL INFEC
EPI1_HSP	Char	1	SHOSPFMT	CAP 24d1: 1ST EPISODE, HOSPITALIZATION
EPI1_LK	Char	1	SYNUFMT	CAP 24c1: 1ST EPISODE, CATHETER LEAKAGE
EPI2_DCR	Char	1	SDCRFMT	CAP 24e2: 2ND EPISODE, DIALYSATE CULT RE
EPI2_EXT	Char	1	SYNUFMT	CAP 24b2: 2ND EPISODE, EXIT/TUNNEL INFEC
EPI2_HSP	Char	1	SHOSPFMT	CAP 24d2: 2ND EPISODE, HOSPITALIZATION
EPI2_ID	Char	1	SYNUFMT	CAP 24f2: 2ND EPISODE, CULT ORGANISM=LAS
EPI2_LK	Char	1	\$	CAP 24c2: 2ND EPISODE, CATHETER LEAKAGE
EPI3_DCR	Char	1	SDCRFMT	CAP 24e3: 3RD EPISODE, DIALYSATE CULT RE
EPI3_EXT	Char	1	SYNUFMT	CAP 24b3: 3RD EPISODE, EXIT/TUNNEL INFEC
EPI3_HSP	Char	1	SHOSPFMT	CAP 24d3: 3RD EPISODE, HOSPITALIZATION
EPI3_ID	Char	1	SYNUFMT	CAP 24f3: 3RD EPISODE, CULT ORGANISM=LAS
EPI3_LK	Char	1	SYNUFMT	CAP 24c3: 3RD EPISODE, CATHETER LEAKAGE
EPI4_DCR	Char	1	SDCRFMT	CAP 24e4: 4TH EPISODE, DIALYSATE CULT RE
EPI4_EXT	Char	1	SYNUFMT	CAP 24b4: 4TH EPISODE, EXIT/TUNNEL INFEC
EPI4_HSP	Char	1	SHOSPFMT	CAP 24d4: 4TH EPISODE, HOSPITALIZATION
EPI4_ID	Char	1	SYNUFMT	CAP 24f4: 4TH EPISODE, CULT ORGANISM=LAS
EPI4_LK	Char	1	SYNUFMT	CAP 24c4: 4TH EPISODE, CATHETER LEAKAGE
EPI5_DCR	Char	1	SDCRFMT	CAP 24e5: 5TH EPISODE, DIALYSATE CULT RE
EPI5_EXT	Char	1	SYNUFMT	CAP 24b5: 5TH EPISODE, EXIT/TUNNEL INFEC
EPI5_HSP	Char	1	SHOSPFMT	CAP 24d5: 5TH EPISODE, HOSPITALIZATION
EPI5_ID	Char	1	SYNUFMT	CAP 24f5: 5TH EPISODE, CULT ORGANISM=LAS
EPI5_LK	Char	1	SYNUFMT	CAP 24c5: 5TH EPISODE, CATHETER LEAKAGE
EPI6_DCR	Char	1	SDCRFMT	CAP 24e6: 6TH EPISODE, DIALYSATE CULT RE
EPI6_EXT	Char	1	SYNUFMT	CAP 24b6: 6TH EPISODE, EXIT/TUNNEL INFEC
EPI6_HSP	Char	1	SHOSPFMT	CAP 24d6: 6TH EPISODE, HOSPITALIZATION
EPI6_ID	Char	1	SYNUFMT	CAP 24f6: 6TH EPISODE, CULT ORGANISM=LAS
EPI6_LK	Char	1	SYNUFMT	CAP 24c6: 6TH EPISODE, CATHETER LEAKAGE
ETHNIC	Char	1	SETHFMT	CAP 10: Ethnicity (Hispanic or not)
FRST_MOD	Char	1	SYNUFMT	CAP 11a: CAPD - FIRST CHOICE MODALITY
FRST_TEC	Char	2	STECFMT	CAP 19: FIRST TECHNIQUE USED AT HOME
IP	Char	1	SYNUFMT	CAP 22: INTRAPERITONEAL DRUGS USED
MANU	Char	1	SMANUFMT	CAP 20a: MANUFACTURER FOR FIRST TECHNIQUE
NETWORK	Char	2	SNETFMT	CAP 1: ESRD Network
NUM_EPI	Num	8	BEST	CAP 25: NUMBER OF PERITONITIS EPISODES
OTH_ANT	Char	25	\$	CAP 20d8: OTHER TUBING ANTISEPTIC USED

CAPD: CAPD Peritonitis Special Study (continued)

Variable	Type	Length	Format	Comment
OTH_CATH	Char	25	\$	CAP 14a88: OTHER CATHETER TYPE USED
OTH_DCR1	Char	25	\$	CAP 24e8a: OTHER DIALYSATE CULTURE RESUL
OTH_DCR2	Char	25	\$	CAP 24e8b: OTHER DIALYSATE CULTURE RESUL
OTH_DCR3	Char	25	\$	CAP 24e8c: OTHER DIALYSATE CULTURE RESUL
OTH_FRST	Char	25	\$	CAP 19 88: OTHER FIRST TECHNIQUE USED AT
OTH_MANU	Char	25	\$	CAP 20a8: OTHER MANUFACTURER FOR FIRST T
OTH_REM	Char	25	\$	CAP 17c8: OTHER REASON FOR CATHETER REMO
OTH_TEC	Char	25	\$	CAP 15a8: OTHER INSERTION TECHNIQUE
P_STAT	Char	2	SPATSTAT	CAP 23: PATIENT STATUS FOLLOWING TECHNIQ
PREV_HEM	Char	1	\$HEMFORMT	CAP 11b: PREVIOUS CHRONIC HEMODIALYSIS
REM_EXT	Char	1	\$CATHREM	CAP 17c2: CATH REMVD DUE TO TUNNEL/EXIT
REM_LK	Char	1	\$CATHREM	CAP 17c3: CATHETER REMOVED DUE TO LEAKAG
REM_MM	Char	1	\$CATHREM	CAP 17c4: CATH REMVD DUE TO MECHANICAL M
REM_OTHR	Char	1	\$CATHREM	CAP 17c8: CATHETER REMOVED DUE TO OTHER
REM_PER	Char	1	\$CATHREM	CAP 17c1: CATHETER REMOVED DUE TO PERITO
REM_TR	Char	1	\$CATHREM	CAP 17c5: CATH REMOVED, TRANSFER TO OTHE
TOT_EPI	Num	8	BEST	CAP 25: TOTAL # OF EPISODE IF > 6
TRAN	Char	1	\$YNUFMT	CAP 12a: PRIOR RENAL TRANSPLANTATION
USRDS_ID	Num	8	BEST	USRDS patient ID

CASEMIXS: Case Mix Severity Special Study

The study consists of two groups of patients: an incident sample of ESRD patients who began hemodialysis during 1990, and a prevalent sample of hemodialysis patients with onset of ESRD prior to 1990.

Variable Name	Type	Length	Format	Comment
ABS_PULS	Char	1	SYNFMT	CMP B 4c: Absent foot pulses
ACCESS1	Char	1	SACCFMT	CMP C 8h1: Hemo - Vascular access (1)
ACCESS2	Char	1	SACCFMT	CMP C 8h2: Hemo - Vascular access (2)
AFT_DBP	Num	8	BEST	CMP C 5b: DBP after first dialysis
AFT_SBP	Num	8	BEST	CMP C 5b: SBP after first dialysis
AFT_WTKG	Num	8	BEST	CMP C 3b: Weight - kg. after first dialy
ALONE	Char	1	\$ALONE	CMP C14: Living alone
AMPUTATA	Char	1	SYNSFMT	CMP B 4b: Amputation due to PVD
AN_GRABN	Char	1	SYNFMT	CMP B 2e: Coronary angiography abnormal?
AN_GRDAT	Char	4	\$	CMP B 2e: Coronary angiography date(mmyy)
AN_PLDAT	Char	4	\$	CMP B 2d: Coronary angioplasty date(mmyy)
ANGINA	Char	1	SYNSFMT	CMP B 2b: Angina
ANGIOGRA	Char	1	SYNFMT	CMP B 2e: Coronary angiography
ANGIOPLA	Char	1	SYNFMT	CMP B 2d: Coronary angioplasty
ARRHYTHM	Char	1	SYNFMT	CMP B 5d: Arrhythmia
ARTERLO	Char	1	SYNFMT	CMP B 4e: Arteriography
ASTHMA	Char	1	SYNFMT	CMP B 8b: Asthma
ATR_FIBR	Char	1	SYNFMT	CMP B 5e: Atrial fibrillation
BFR	Num	8	BEST	CMP C 8f: Hemo - blood flow rate
BILIRUB	Num	8	BEST	CMP D3 1: Bilirubin total
BLUECROS	Char	1	SYNFMT	CMP A11a: Blue Cross
BUN_AFT	Num	8	BEST	CMP D3 7b: BUN - post dialysis treatmen
BUN_PRE	Num	8	BEST	CMP D3 7a: BUN - predialysis treatment
CABG	Char	1	SYNFMT	CMP B 2c: Bypass surgery
CABGDATE	Char	4	\$	CMP B 2c: Bypass surgery date(mmyy)
CARDARR	Char	1	SYNFMT	CMP B 2f: Cardiac arrest
CEREBROV	Char	1	SYNSFMT	CMP B 3a: Cerebrovascular Accident
CHD_CAD	Char	1	SYNSFMT	CMP B 2a: Prior Dx of CHD/CAD
CHOLEST	Num	8	BEST	CMP D3 3a: Cholesterol
CIRRHOS	Char	1	SYNFMT	CMP B10b: Cirrhosis
CLAUDIC	Char	1	SYNFMT	CMP B 4d: Claudication
COMPDATE	Num	8	DATE	CMP A 3: Date completed
CONG_HRT	Char	1	SYNFMT	CMP B 5a: Congestive heart failure
COPD	Char	1	SYNFMT	CMP B 8a: Chronic obstructive pulm. dis.
CRE_DATE	Char	4	\$	CMP D1 1: Serum Creatinine date
CREAT1	Num	8	BEST	CMP D1 1: Serum Creat 1-12mo pre CMD
CREAT2	Num	8	BEST	CMP D1 2a: Serum Creat first CMD
CREAT3	Num	8	BEST	CMP D1 2b: Serum Creat after first CMD
CREAT4	Num	8	BEST	CMP D1 3: High Serum Creat before onset
CREAT5	Num	8	BEST	CMP D1 4: High Serum Creat 1st month
CREAT6	Num	8	BEST	CMP D1 5: Serum Creat 2-6 weeks
DIAB_RET	Char	1	SYNFMT	CMP B 7d: Diabetic retinopathy
DIALYZER	Char	3	\$	CMP C 8g: Hemo - Dialyzer type
DIS_1	Char	30	\$	CMP B11 1: Major diagnosis - Description
DIS_2	Char	30	\$	CMP B11 2: Major diagnosis - Description
DIS_3	Char	30	\$	CMP B11 3: Major diagnosis - Description
DIS_4	Char	30	\$	CMP B11 4: Major diagnosis - Description
DIS_5	Char	30	\$	CMP B11 5: Major diagnosis - Description
DIS_6	Char	30	\$	CMP B11 6: Major diagnosis - Description
DONORSRC	Char	1	\$DNRTYP	CMP C10b: Donor source
DUR_DIAB	Num	8	BEST	CMP B 7b: Duration of Diabetes (years)
DX_DIAB	Char	1	SYNFMT	CMP B 7: Prior Dx of Diabetes
EARLDIAL	Num	8	DATE	CMP A10b: Date Earliest Chronic Dialysis
ECHOCARD	Char	1	SYNFMT	CMP D2 2b: Left vent hypertrophy echoca
EDUCAT	Char	1	SEDLV	CMP C17: Education
EKG	Char	1	SYNFMT	CMP D2 2a: Left vent hypertrophy by EKG
EXCH_DAY	Num	8	BEST	CMP C 9c: Peri - exchanges per treatment
EXCH_LIT	Num	8	BEST	CMP C 9d: Peri - liters per exchange
FIRSDIAL	Num	8	DATE	CMP A10a: Date First Chronic Dialysis
HBSAG	Char	1	SPOSFMT	CMP D3 2: HBsAG
HEMATO	Num	8	BEST	CMP D3 6: Hematocrit
HEMO_LOC	Char	1	\$HEMOFMT	CMP C 8a: Hemo - dialysis location

CASEMIXS: Case Mix Severity Special Study (continued)

Variable	Type	Length	Format	Comment
HEMO_MIN	Num	8	BEST	CMP C 8b: Hemo - Usual min. per treatment
HEPATIT	Char	1	SYNFMT	CMP B10a: Hepatitis
HOUSMEMB	Num	8	BEST	CMP C15: Household members
HT_CM	Num	8	BEST	CMP C 1: Height - cm.
HX_HYPER	Char	1	SYNFMT	CMP B 6: History of hypertension
ICD9_1	Char	5	\$	CMP B11 1: Major diagnosis - ICD9 code
ICD9_2	Char	5	\$	CMP B11 2: Major diagnosis - ICD9 code
ICD9_3	Char	5	\$	CMP B11 3: Major diagnosis - ICD9 code
ICD9_4	Char	5	\$	CMP B11 4: Major diagnosis - ICD9 code
ICD9_5	Char	5	\$	CMP B11 5: Major diagnosis - ICD9 code
ICD9_6	Char	5	\$	CMP B11 6: Major diagnosis - ICD9 code
IND_AMBU	Char	1	SYNFMT	CMP C12c: Independent Ambulating
IND_EAT	Char	1	SYNFMT	CMP C12a: Independent eating
IND_XFER	Char	1	SYNFMT	CMP C12b: Independent transferring
INSULIN	Char	1	SINSUFMT	CMP B 7e: Insulin therapy ever
MAR_STAT	Char	1	\$MARST	CMP C13: Marital status
MEDICAID	Char	1	SYNFMT	CMP A11c: Medicaid
MEDICARE	Char	1	SYNFMT	CMP A11b: Medicare
METASTAS	Char	1	SYNFMT	CMP B 9c: Known metastases
MI	Char	1	SYNFMT	CMP B 2g: Myocardial infarction
MIDATE	Char	4	\$	CMP B 2g: Myocardial infarction last date
NEO_DATE	Char	4	\$	CMP B 9b: Date(mmyy) of first neoplasm D
NEO_TYPE	Char	20	\$	CMP B 9a: Neoplasm primary site/type
NEOPLASM	Char	1	SYNFMT	CMP B 9: Neoplasms
NO_INS	Char	1	SYNFMT	CMP A11g: No insurance
NUT_STAT	Char	1	\$NUTFMT	CMP C 4: Nutritional Status
OCCUPAT	Char	1	SOCCLEV	CMP C18: Occupation level before ESRD
ONSEMPLV	Char	1	SEMPLEV	CMP C16b: Employment level at onset of ESRD
OTH_INS	Char	1	SYNFMT	CMP A11f: Other insurance
OXYGEN	Char	1	SYNFMT	CMP B 8c: Home oxygen prescribed
PAT_STAT	Char	1	\$PATSTAT	CMP C 6: Patient status at one month
PERI_LOC	Char	1	\$PERILOC	CMP C 9a: Peri - dialysis location
PERI_TYP	Char	1	\$PERITYP	CMP C 9b: Peri - dialysis type
PERICARD	Char	1	SYNFMT	CMP B 5c: Pericarditis
PHOSPH	Num	8	BEST	CMP D3 5: Serum phosphorous
PR_HYPER	Char	1	SYNFMT	CMP B 6a: Hypertension treated pre ESRD
PRI_DBP	Num	8	BEST	CMP C 5a: DBP at first dialysis/predialy
PRI_SBP	Num	8	BEST	CMP C 5a: SBP at first dialysis/predialy
PRI_WTKG	Num	8	BEST	CMP C 2: Weight - kg. before first dialy
PRIEMPLV	Char	1	SEMPLEV	CMP C16a: Highest emp level one yr prior
PRIVATE	Char	1	SYNFMT	CMP A11d: Private
PROVUSRD	Num	8	BEST	USRDS assigned facility ID
PSYCH_EV	Num	8	DATE	CMP C11: Date of psychosocial evaluation
PULM_EDE	Char	1	SYNFMT	CMP B 5b: Pulmonary edema
PVD	Char	1	SYNSFMT	CMP B 4a: Peripheral Vascular Disease
REUSE	Char	1	SYNFMT	CMP C 8d: Hemo - reuse of dialyzer
S_BORN	Num	8	DATE	CMP A 9: Birth Date
S_DIED	Num	8	DATE	CMP C 7: Date of death
S_NETWORK	Char	2	\$NETFMT	CMP A 1: ESRD Network
S_TDATE	Num	8	DATE	CMP C10a: Date of transplant
SER_ALBU	Num	8	BEST	CMP D3 8: Serum albumin
SESSIONS	Num	8	BEST	CMP C 8c: Hemo - No. sessions per week
SI_HYPER	Char	1	SYNFMT	CMP B 6b: Hypertension treated since ESR
SMOKING	Char	1	SSMOKFMT	CMP B 1: Smoking Status
SUGAR	Num	8	BEST	CMP D3 4: Highest blood sugar
TIA	Char	1	SYNSFMT	CMP B 3b: Transient ischemic attacks
TRIGLY	Num	8	BEST	CMP D3 3b: Triglycerides
TRMT_DAY	Num	8	BEST	CMP C 9e: Peri - treatment days per week
TYP_DIAB	Char	1	\$DIABFMT	CMP B 7c: Type of diabetic
TYPE300	Char	10	\$	CMP C 8g: Hemo - Specific Code 300 dialyz
USRDS_ID	Num	8	BEST	USRDS assigned patient ID
VA	Char	1	SYNFMT	CMP A11e: VA
WTLOSSKG	Num	8	BEST	CMP C 8e: Hemo - highest wt loss - kgs.
XRAY	Char	1	SYNFMT	CMP D2 1: Cardiomegaly by X-ray
YR_DIAB	Char	2	\$	CMP B 7a: Year of Dx of Diabetes

CLMCODES: Claim Codes

Frequency of occurrence of each code. A starting point for analyses using diagnosis and procedure codes.

Variable	Type	Length	Format	Comment
FREQ	Num	8		Number of occurrences
CDTYPE	Char	1	SCDTYPE	Code type
CODE	Char	5		Code value
CODELAB	Char	100		Label for code
INTEREST	Char	1		
PART_AB	Char	2	SPARTAB	Claim type
SPCD	Char	6		Code type + value

CMSFACS: Case Mix Severity Special Study Patient Form
Facility Questionnaire for Case Mix Severity Special Study

Variable	Type	Length	Format	Comment
ABSTINIT	Char	2	\$	CMF 2: Abstractor
BLEACH	Char	1	SYNFMT	CMF 7C1: Bleach Used
CHARCOAL	Char	1	SYNFMT	CMF 9B: Activated Charcoal Used
COMPDATE	Num	8	MMDDYY	CMF 3: Date completed
DEIONIZE	Char	1	SYNFMT	CMF 9D: Dionization Used
FORMALIN	Char	1	SYNFMT	CMF 7C2: Formalin Used
GLUTARAL	Char	1	SYNFMT	CMF 7C4: Glutaraldehyde Used
PROVUSRD	Num	8	BEST	KECC Assigned Facility ID
RENALIN	Char	1	SYNFMT	CMF 7C3: Renalin Used
REUSETEC	Char	1	STYPREUS	CMF 7B: Reuse Technique
REVOSMOS	Char	1	SYNFMT	CMF 9C: Reverse Osmosis Used
S_NETWORK	Char	2	\$	CMF 1: ESRD Network
SOFTENER	Char	1	SYNFMT	CMF 9A: Water Softener Used
SPECIAL_	Char	1	\$	SPECIAL_STUDY_FORM
STOPREUS	Num	8	MMDDYY	CMF 7A: Date Reuse Stopped
STRTREUS	Num	8	MMDDYY	CMF 7A: Date Reuse Started
TOPRESNT	Char	1	\$	CMF 7A: Reuse through to present
UKMODEL	Char	1	SYNFMT	CMF 6: Urea Kinetic Modeling
ULTRFILT	Char	1	SYNFMT	CMF 9E: Ultrafilter Used
UNITREUS	Char	1	SYNFMT	CMF 7: Reuse at Unit
WATERSRC	Char	1	\$WATRSRC	CMF 8: Water Source

DIALYZER: Dialyzers

The Case Mix Severity, Case Mix Adequacy, and DMMS Special Studies all collected information on the manufacturer and model of the dialyzer used for a patient at a specific time.

Variable	Type	Length	Comment
ADQ_CD	Char	3	Dialyzer Code-Adequacy
B12	Num	8	Dialyzer B12 clearance
COMPANY	Char	10	Dialyzer Manufacturer
KOA	Num	8	Dialyzer Koa area
KUF	Num	8	Dialyzer Uf coefficient
MEMBRANE	Char	20	Dialyzer Membrane type
MODEL	Char	20	Dialyzer Model number
PRIMVOL	Char	7	Dialyzer Priming volume
QB	Char	3	Dialyzer Blood Flow rate Readings at
STERIL	Char	7	Dialyzer Sterilization type
SUR_AREA	Num	8	Dialyzer Surface area
TYPE	Char	2	Dialyzer Type spec.
UREA	Num	8	Dialyzer Urea clearance
WAVE1_CD	Char	4	Dialyzer Code-DMMS Wave 1
WAVE2_CD	Char	4	Code-DMMS Waves 2-4

DMMSWAV1:DMMS Wave 1 Patients

Each wave includes a data collection instrument for collecting core data that allows collection of a consistent set of fundamental data for research questions that require a large sample size. Wave 1 includes a non-core component designed to address additional research questions that require smaller sample sizes.

Variable	Type	Length	Format	Comment
Form: Anemia Questionnaire				
USRDS_ID	Num	8	BEST22.	USRDS Assigned Patient ID
SER_IRON	Num	8		D1A 1 : Serum Iron
IRONBIND	Num	8		D1A 2 : Tot iron binding cap (TIBC)
FERRITIN	Num	8		D1A 3 : Ferritin Anemia
TRANSAT	Num	8		D1A 4 : Transferrin saturation
HEMAT	Num	8		D1A 5 : Hematocrit Anemia
IRONPAR	Char	1	SYESNO.	D1A 6a: Parenteral iron used Anemia
IRONPARR	Char	1	SIRONADM.	D1A 6b: Route parenteral iron administ Anemia
IRONDATE	Num	8	DATE9.	D1A 6c: Date of 1st iron iv/im/pi admi Anemia
IRONDOSE	Num	8		D1A 6d: Dose of iron in mg Anemia
IRONWEEK	Num	8		D1A 6e: # Administ. of iron per week
IRONORAL	Char	1	SYESNO.	D1A 7 : Taking oral iron in 12/93
EPO_ADM	Char	1	SYESNO.	D1A 8 : EPO administered, anemia
EPOUNITA	Num	8		D1A 8a: Units of EPO per admin
EPOUNITW	Num	8		D1A 8b: Units of EPO per week
EPOADWK	Num	8		D1A 8c: # Administ EPO per week
EPOROUTE	Char	1	SEPOADM.	D1A 8d: Route of EPO administration
EPODATE	Num	8	DATE9.	D1A 8e: EPO start date Anemia
EPOBESRD	Char	1		D1A 8e: EPO started before ESRD
HEMABEPO	Num	8		D1A 8f: Most rec hemat before EPO
Nutrition Questionnaire				
UNITNKG5	Char	1		D1N 1 : Units - kilos, nutr (94)
UNITNLBS	Char	1		D1N 1 : Units - pounds, nutr (94)
POSBUNN1	Num	8		D1N 1b: 1# BUN postdial, nutrit (94)
PREBUNN1	Num	8		D1N 1b: 1# BUN predial, nutrit (94)
PR2BUNN1	Num	8		D1N 1b: 1# BUN sec predial, nutr (94)
POSBUNN2	Num	8		D1N 1b: 2# BUN postdial, nutrit (94)
PREBUNN2	Num	8		D1N 1b: 2# BUN predial, nutrit (94)
PR2BUNN2	Num	8		D1N 1b: 2# BUN sec predial, nutr (94)
POSBUNN3	Num	8		D1N 1b: 3# BUN postdial, nutrit (94)
PREBUNN3	Num	8		D1N 1b: 3# BUN predial, nutrit (94)
PR2BUNN3	Num	8		D1N 1b: 3# BUN sec predial, nutr (94)
POSBUNN4	Num	8		D1N 1b: 4# BUN postdial, nutrit (94)
PREBUNN4	Num	8		D1N 1b: 4# BUN predial, nutrit (94)
PR2BUNN4	Num	8		D1N 1b: 4# BUN sec predial, nutr (94)
POSBUNN5	Num	8		D1N 1b: 5# BUN postdial, nutrit (94)
PREBUNN5	Num	8		D1N 1b: 5# BUN predial, nutrit (94)
PR2BUNN5	Num	8		D1N 1b: 5# BUN sec predial, nutr (94)
POSBUNN6	Num	8		D1N 1b: 6# BUN postdial, nutrit (94)
PREBUNN6	Num	8		D1N 1b: 6# BUN predial, nutrit (94)
PR2BUNN6	Num	8		D1N 1b: 6# BUN sec predial, nutr (94)
BUNDAYN1	Char	2		D1N 1d: Day of BUN 1, nutrit (94)
BUNDAYN2	Char	2		D1N 1d: Day of BUN 2, nutrit (94)
BUNDAYN3	Char	2		D1N 1d: Day of BUN 3, nutrit (94)
BUNDAYN4	Char	2		D1N 1d: Day of BUN 4, nutrit (94)
BUNDAYN5	Char	2		D1N 1d: Day of BUN 5, nutrit (94)
BUNDAYN6	Char	2		D1N 1d: Day of BUN 6, nutrit (94)
POSWGTN1	Num	8		D1N 1w: 1# WGT postdial, nutr (94)
PREWGTN1	Num	8		D1N 1w: 1# WGT predial, nutr (94)
PR2WGTN1	Num	8		D1N 1w: 1# WGT sec predial, nutr (94)
POSWGTN2	Num	8		D1N 1w: 2# WGT postdial, nutr (94)
PREWGTN2	Num	8		D1N 1w: 2# WGT predial, nutr (94)
PR2WGTN2	Num	8		D1N 1w: 2# WGT sec predial, nutr (94)
POSWGTN3	Num	8		D1N 1w: 3# WGT postdial, nutr (94)
PREWGTN3	Num	8		D1N 1w: 3# WGT predial, nutr (94)
PR2WGTN3	Num	8		D1N 1w: 3# WGT sec predial, nutr (94)
POSWGTN4	Num	8		D1N 1w: 4# WGT postdial, nutr (94)
PREWGTN4	Num	8		D1N 1w: 4# WGT predial, nutr (94)
PR2WGTN4	Num	8		D1N 1w: 4# WGT sec predial, nutr (94)
POSWGTN5	Num	8		D1N 1w: 5# WGT postdial, nutr (94)

DMMSWAV1:DMMS Wave 1 Patients (continued)

Variable	Type	Length	Format	Comment
PREWGTN5	Num	8		D1N 1w: 5# WGT predial, nutr (94)
PR2WGTN5	Num	8		D1N 1w: 5# WGT sec predial, nutr (94)
POSWGTN6	Num	8		D1N 1w: 6# WGT postdial, nutr (94)
PREWGTN6	Num	8		D1N 1w: 6# WGT predial, nutr (94)
PR2WGTN6	Num	8		D1N 1w: 6# WGT sec predial, nutr (94)
SERALBN1	Num	8		D1N 2 : 1# ser alb predial, nutr (94)
SERALBN2	Num	8		D1N 2 : 2# ser alb predial, nutr (94)
SERALBN3	Num	8		D1N 2 : 3# ser alb predial, nutr (94)
SERALBN4	Num	8		D1N 2 : 4# ser alb predial, nutr (94)
SERALBN5	Num	8		D1N 2 : 5# ser alb predial, nutr (94)
SERALBN6	Num	8		D1N 2 : 6# ser alb predial, nutr (94)
TOTMINN1	Num	8		D1N 3 : 1# Duration of dial(min), nutr
TOTMINN2	Num	8		D1N 3 : 2# Duration of dial(min), nutr
TOTMINN3	Num	8		D1N 3 : 3# Duration of dial(min), nutr
TOTMINN4	Num	8		D1N 3 : 4# Duration of dial(min), nutr
TOTMINN5	Num	8		D1N 3 : 5# Duration of dial(min), nutr
TOTMINN6	Num	8		D1N 3 : 6# Duration of dial(min), nutr
Core Questionnaire				
COMPDATE	Num	8	DATE9.	D1P A 1: Date Abstract completed
S_RACE	Char	1	\$RACEDMS.	D1P A 3 : Race
ETHNIC	Char	1	\$ETHFMT.	D1P A 4 : Ethnicity (Hispanic or not)
S_ZIP	Char	5		D1P A 5 : patients zipcode
YRFDIAL	Char	2		D1P A 6a: yr of first chron maint dial
YRERDIAL	Char	2		D1P A 6b: earliest known year of dial
BLUECROS	Char	1	\$YESNO.	D1P A 7a: Blue Cross
S_MDCARE	Char	1	\$YESNO.	D1P A 7b: Medicare
MEDICAID	Char	1	\$YESNO.	D1P A 7c: Medicaid
PRIVATE	Char	1	\$YESNO.	D1P A 7d: Private
VA	Char	1	\$YESNO.	D1P A 7e: VA
OTH_INS	Char	1	\$YESNO.	D1P A 7f: Other insurance
NO_INS	Char	1	\$YESNO.	D1P A 7g: No insurance
HMO	Char	1	\$YESNO.	D1P A 8 : Enroll in HMO
SMOKING	Char	1	\$SMOKFMT.	D1P B 1 : Smoking status
CHD_CAD	Char	1	\$SUSPCT.	D1P B 2a: Prior Dx of CHD/CAD
ANGINA	Char	1	\$SUSPCT.	D1P B 2b: Angina Core
MI	Char	1	\$SUSPCT.	D1P B 2c: Myocardial infarction
CABG	Char	1	\$SUSPCT.	D1P B 2d: Bypass Surgery
ANGIOPLA	Char	1	\$SUSPCT.	D1P B 2e: Coronary angioplasty
ANGIOGRA	Char	1	\$SUSPCT.	D1P B 2f: Coronary angiography
AN_GRABN	Char	1	\$SUSPCT.	D1P B 2f: Coronary angiography abnormal
CARDARR	Char	1	\$SUSPCT.	D1P B 2g: Cardiac arrest
CEREBROV	Char	1	\$SUSPCT.	D1P B 3a: Cerebrovascular Accident
TIA	Char	1	\$SUSPCT.	D1P B 3b: Transient ischeimc attacks
PVD	Char	1	\$SUSPCT.	D1P B 4a: Peripheral Vascular Disease
AMPUTATA	Char	1	\$SUSPCT.	D1P B 4b: Amputation due to PVD
LIMBAMP	Char	1	\$SUSPCT.	D1P B 4c: Limb amputation (other)
ABS_PULS	Char	1	\$SUSPCT.	D1P B 4d: Absent foot pulses
CLAUDIC	Char	1	\$SUSPCT.	D1P B 4e: Claudication
CONG_H	Char	1	\$SUSPCT.	D1P B 5a: Congestive heart failure
PERICARD	Char	1	\$SUSPCT.	D1P B 5b: Pericarditis
DX_DIAB	Char	1	\$SUSPCT.	D1P B 6 : Prior Dx of Diabetes
DIABESRD	Char	1	\$YESNO.	D1P B 6a: Diabetes was cause of ESRD
INSULIN	Char	1	\$NEVRFMT.	D1P B 6b: Insulin therapy
LUNGDIS	Char	1	\$SUSPCT.	D1P B 7 : History of lung disease
NEOPLASM	Char	1	\$SUSPCT.	D1P B 8 : Neoplasms (other than skin)
NEO_TYPE	Char	2	\$NEOFMT.	D1P B 8a: Neoplasm primary site/type
NEO_TYP2	Char	2	\$NEOFMT.	D1P B 8a: Neoplasm second site/type
NEO_YEAR	Char	2		D1P B 8b: Year of first neoplasm Dx
HIV	Char	1	\$HIVFMT.	D1P B 9 : HIV Status
AIDS	Char	1	\$HIVFMT.	D1P B10 : Diagnosed with AIDS
BILAMP	Char	1		D1P C 1b: Bilateral amputee
HT_CM	Char	3		D1P C 1c: Height - cm.
HT_FT	Char	1		D1P C 1f: Height - ft.
HT_IN	Char	2		D1P C 1i: Height - in.

DMMSWAV1:DMMS Wave 1 Patients (continued)

Variable	Type	Length	Format	Comment
AFT_WTKG	Num	8		D1P C 2k: Dry weight - kilograms
AFT_WTLB	Num	8		D1P C 2l: Dry weight - pounds
UNDNOUR	Char	1	SSUSPCT.	D1P C 3 : Undernourished 12/93
PRE_SIT	Char	1	SYESNO.	D1P C 4 : BP taken sitting
PST_SIT	Char	1	SYESNO.	D1P C 4 : BP taken sitting
PRE_DBP	Num	8		D1P C 4a: DBP at SSD / predialysis
PRE_SBP	Num	8		D1P C 4a: SBP at SSD / predialysis
PST_DBP	Num	8		D1P C 4b: DBP at SSD / postdialysis
PST_SBP	Num	8		D1P C 4b: SBP at SSD / postdialysis
DIALYSAT	Char	1	SDISATE.	D1P C 5a: Dialysate
HEMO_TIM	Char	3		D1P C 5b: Hemo - Presc hours:min/treat
SESSIONS	Num	8		D1P C 5c: Hemo - No. sessions per week
BFR	Num	8		D1P C 5d: Hemo - blood flow rate
WTLOSSKG	Num	8		D1P C 5g: Hemo - highest wt loss - kgs.
WTLOSSLB	Num	8		D1P C 5g: Hemo - highest wt loss - lbs.
WAVE1_CD	Char	4		D1P C 5h Hemo - Dialyzer type
DIALMAKE	Char	15		D1P C 5h: Hemo - Dialyzer make
DIALMODL	Char	19		D1P C 5h: Hemo - Dialyzer model
DIALYZER	Char	5		D1P C 5h: Hemo - Dialyzer type
ACCESS1	Char	1	SVASTYPE.	D1P C 5i: Hemo - Vascular access (1)
PSYDATE	Num	8	DATE9.	D1P C 6: Psychological evaluation date
IND_EAT	Char	1	SYESNO.	D1P C 7a: Independent eating
IND_XFER	Char	1	SYESNO.	D1P C 7b: Independent transferring
IND_AMBU	Char	1	SYESNO.	D1P C 7c: Independent Ambulating
MAR_STAT	Char	1	SMARSTAT.	D1P C 8 : Marital status
ALONE	Char	1	SALONE.	D1P C 9 : Living alone
EDUCAT	Char	1	SEDLEV.	D1P C10 : Education
OCCUPAT	Char	2	SOCCUP.	D1P C11 : Occupation level before ESRD
EMPFT_C	Char	1	SYESNO.	D1P C12a: On 12/31/93 emp/student fti
EMPFT_B	Char	1	SYESNO.	D1P C12a: Pre-ESRD emp/student full ti
EMPPT_C	Char	1	SYESNO.	D1P C12b: On 12/31/93 emp/student pti
EMPPT_B	Char	1	SYESNO.	D1P C12b: Pre-ESRD emp/student part ti
HOMEMK_C	Char	1	SYESNO.	D1P C12c: On 12/31/93 homemaker
HOMEMK_B	Char	1	SYESNO.	D1P C12c: Pre-ESRD homemaker
RETIRE_C	Char	1	SYESNO.	D1P C12d: On 12/31/93 retired
RETIRE_B	Char	1	SYESNO.	D1P C12d: Pre-ESRD retired
NEVEMP_C	Char	1	SYESNO.	D1P C12e: On 12/31/93 never employed
NEVEMP_B	Char	1	SYESNO.	D1P C12e: Pre-ESRD never employed
UNEMP_C	Char	1	SYESNO.	D1P C12f: On 12/31/93 unemployed
UNEMP_B	Char	1	SYESNO.	D1P C12f: Pre-ESRD unemployed
DISAB_C	Char	1	SYESNO.	D1P C12g: On 12/31/93 disabled
DISAB_B	Char	1	SYESNO.	D1P C12g: Pre-ESRD disabled
OTHER_C	Char	1	SYESNO.	D1P C12h: On 12/31/93 other
OTHER_B	Char	1	SYESNO.	D1P C12h: Pre-ESRD other
XRAY	Char	1	SYESNO.	D1P D 1 : Cardiomegaly by X-ray
EKG	Char	1	SYESNO.	D1P D 2a: Left ventr. hyper. by EKG
ECHOCARD	Char	1	SYESNO.	D1P D 2b: Left ventr. hyper. by echogr
SER_CAL	Num	8		D1P D 3 : Serum calcium, predialysis
PHOSPH	Num	8		D1P D 4 : Serum phosphorous
SER_BIC	Num	8		D1P D 5 : Serum bicarbonate
HEMATO	Num	8		D1P D 6a: Hematocrit
HEMOGLOB	Num	8		D1P D 6b: Hemoglobin
TRANS	Char	1	SYESNO.	D1P D 6c: Receive transfusion / 1 mo
NUMTRANS	Char	2		D1P D 6d: Number of Transfusions recd
EPO	Char	1	SYESNO.	D1P D 7 : Taking EPO at SSD
CREAT1	Num	8		D1P D 8 : Serum Creatinine, predialysis
SKIPDIAL	Char	2		D1P D 9 : Number of treatments skipped
SHRTDIAL	Char	2		D1P D10 : Num treatmnts shortnd by 10m
CHOLEST	Num	8		D1P D11a: Cholesterol
TRIGLY	Num	8		D1P D11b: Triglycerides
SER_PTH	Num	8		D1P D12 : Serum intact PTH
SER_ALUM	Num	8		D1P D13 : Serum aluminum (random)
CHRDATE	Num	8	DATE9.	D1P D14 : Date first chronic maint treat
CREAT2	Num	8		D1P D15 : Serum Creatinine, first ever

DMMSWAV1:DMMS Wave 1 Patients (continued)

Variable	Type	Length	Format	Comment
POSTBUN1	Num	8		D1P D16b: 1# BUN postdialysis
PREBUN_1	Num	8		D1P D16b: 1# BUN predialysis
PREBUN1A	Num	8		D1P D16b: 1# BUN second predialysis
POSTBUN2	Num	8		D1P D16b: 2# BUN postdialysis
PREBUN_2	Num	8		D1P D16b: 2# BUN predialysis
PREBUN2A	Num	8		D1P D16b: 2# BUN second predialysis
POSTBUN3	Num	8		D1P D16b: 3# BUN postdialysis
PREBUN_3	Num	8		D1P D16b: 3# BUN predialysis
PREBUN3A	Num	8		D1P D16b: 3# BUN second predialysis
POSTBUN4	Num	8		D1P D16b: 4# BUN postdialysis
PREBUN_4	Num	8		D1P D16b: 4# BUN predialysis
PREBUN4A	Num	8		D1P D16b: 4# BUN second predialysis
POSTBUN5	Num	8		D1P D16b: 5# BUN postdialysis
PREBUN_5	Num	8		D1P D16b: 5# BUN predialysis
PREBUN5A	Num	8		D1P D16b: 5# BUN second predialysis
POSTBUN6	Num	8		D1P D16b: 6# BUN postdialysis
PREBUN_6	Num	8		D1P D16b: 6# BUN predialysis
PREBUN6A	Num	8		D1P D16b: 6# BUN second predialysis
BUNDAY_1	Char	2		D1P D16d: Day of BUN 1
BUNDAY_2	Char	2		D1P D16d: Day of BUN 2
BUNDAY_3	Char	2		D1P D16d: Day of BUN 3
BUNDAY_4	Char	2		D1P D16d: Day of BUN 4
BUNDAY_5	Char	2		D1P D16d: Day of BUN 5
BUNDAY_6	Char	2		D1P D16d: Day of BUN 6
POSTWT_1	Num	8		D1P D16w: 1# WGT postdialysis
PREWT_1	Num	8		D1P D16w: 1# WGT predialysis
PREWT_1A	Num	8		D1P D16w: 1# WGT second predialysis
POSTWT_2	Num	8		D1P D16w: 2# WGT postdialysis
PREWT_2	Num	8		D1P D16w: 2# WGT predialysis
PREWT_2A	Num	8		D1P D16w: 2# WGT second predialysis
POSTWT_3	Num	8		D1P D16w: 3# WGT postdialysis
PREWT_3	Num	8		D1P D16w: 3# WGT predialysis
PREWT_3A	Num	8		D1P D16w: 3# WGT second predialysis
POSTWT_4	Num	8		D1P D16w: 4# WGT postdialysis
PREWT_4	Num	8		D1P D16w: 4# WGT predialysis
PREWT_4A	Num	8		D1P D16w: 4# WGT second predialysis
POSTWT_5	Num	8		D1P D16w: 5# WGT postdialysis
PREWT_5	Num	8		D1P D16w: 5# WGT predialysis
PREWT_5A	Num	8		D1P D16w: 5# WGT second predialysis
POSTWT_6	Num	8		D1P D16w: 6# WGT postdialysis
PREWT_6	Num	8		D1P D16w: 6# WGT predialysis
PREWT_6A	Num	8		D1P D16w: 6# WGT second predialysis
UNITSLBS	Char	1		D1P D16w: Units of Weight meas - pounds
UNITSKGS	Char	1		D1P D16w: Units of Weight meas- kilos
SERALB_1	Num	8		D1P D17 : 1# Serum Albumin predialysis
SERALB_2	Num	8		D1P D17 : 2# Serum Albumin predialysis
SERALB_3	Num	8		D1P D17 : 3# Serum Albumin predialysis
SERALB_4	Num	8		D1P D17 : 4# Serum Albumin predialysis
SERALB_5	Num	8		D1P D17 : 5# Serum Albumin predialysis
SERALB_6	Num	8		D1P D17 : 6# Serum Albumin predialysis
MINDIA1	Num	8		D1P D18: 1# Duration of dial (min)
MINDIA2	Num	8		D1P D18: 2# Duration of dial (min)
MINDIA3	Num	8		D1P D18: 3# Duration of dial (min)
MINDIA4	Num	8		D1P D18: 4# Duration of dial (min)
MINDIA5	Num	8		D1P D18: 5# Duration of dial (min)
MINDIA6	Num	8		D1P D18: 6# Duration of dial (min)
OFFCEN_R	Char	1		D1P E 1 : Reas switched off center hemo
OCH_DATE	Num	8	DATE9.	D1P E 1: Date switched off center hemo
MOVEDATE	Num	8	DATE9.	D1P E 3: Date moved out of region
TRANDATE	Num	8	DATE9.	D1P E 4: Date transferred w/in network
LOSTDATE	Num	8	DATE9.	D1P E 5: Date 1st kwn hemo;lost fol-up
Vascular Access Questionnaire				
VAS1CMT	Num	8	DATE9.	D1V : Date of 1st chronic maint dial
PERMACC	Char	1	SYNUDET.	D1V 1 : Permanent access bef ESRD

DMMSWAV1:DMMS Wave 1 Patients (continued)

Variable	Type	Length	Format	Comment
ACCTYPE0	Char	1	SVASTYPE.	D1V 2 : Type of acc at init of hem
ACCTYPE1	Char	1	SVASTYPE.	D1V 3 : Type of acc 1 mo aft beg hem
ACCDATE	Num	8	DATE9.	D1V 4: Date access placed
HIFLOW4	Num	8		D1V 5 : Highest blood flow 4th week
HIPRES	Num	8		D1V 6 : Highest ven pressure at hiflo
BFL200DT	Num	8	DATE9.	D1V 7: Date 1st all bl flow lt 200
BFRECIRC	Char	3		D1V 8 : Blood flow at recirc test
RECIRCCTR	Num	8		D1V 8 : Recirculation test result
RECIRCT	Char	1	SYESNO.	D1V 8 : Recirculation tested aft M1
RECDATE	Num	8	DATE9.	D1V 8: Date recirculation tested
SWPERIT	Char	1	SYESNO.	D1V 9 : Switch to perito sin 1st dial
PERSTHDT	Num	8	DATE9.	D1V 9: Date switch to peritoneal
ACCREV	Char	1	SYESNO.	D1V 10 : Any proced/revisions to acc
ACCREV1C	Char	1	SCLOT.	D1V 10 : Clotted at 1st access revis
ACCREV2C	Char	1	SCLOT.	D1V 10 : Clotted at sec access revis
ACCREV1T	Char	2	SREVTTYPE.	D1V 10 : Type of first access revision
ACCREV2T	Char	2	SREVTTYPE.	D1V 10 : Type of sec access revision
AREV2DT	Num	8	DATE9.	D1V 10: Date 2nd access revision
AREV1DT	Num	8	DATE9.	D1V 10: Date first access revision
ACCINF1C	Char	1		D1V 11 : Pos blood cult/first acc inf
ACCINF2C	Char	1		D1V 11 : Pos blood cult/second acc inf
ACCINF	Char	1	SYESNO.	D1V 11 : Vascular access infection
AINF1DT	Num	8	DATE9.	D1V 11: Date 1st access infection
AINF2DT	Num	8	DATE9.	D1V 11: Date 2nd access infection
Not on Form				
DMMS_ID	Num	8	9	DMMS Patient ID
HDKTV1	Num	8	8.2	Kt/V month 1 - Daugirdas 2 formula
HDKTV2	Num	8	8.2	Kt/V month 2 - Daugirdas 2 formula
HDKTV3	Num	8	8.2	Kt/V month 3 - Daugirdas 2 formula
HDKTV4	Num	8	8.2	Kt/V month 4 - Daugirdas 2 formula
HDKTV5	Num	8	8.2	Kt/V month 5 - Daugirdas 2 formula
HDKTV6	Num	8	8.2	Kt/V month 6 - Daugirdas 2 formula
NC_BORN	Num	8		NC Birthdate - from Network Census
NCMOD	Char	2		NC End of Yr Modality - Network Census
NC_FSER	Num	8		NC First Service Date - Network Census
NC_MED	Char	1		NC Medicare Eligibility - Network Census
NC_MOD	Char	1		NC Modality - from Network Census
NC_PDIS	Char	5		NC Primary Disease - Network Census
NC_RACE	Char	1	SRACEFMT.	NC Race - from Network Census
NC_SEX	Char	1	SSEXFMT.	NC Sex - from Network Census
PROVUSRD	Num	8	BEST22.	USRDS Assigned Facility ID

DMMSWAV2: DMMS Wave 2 Patients

Each wave includes a data collection instrument for collecting core data that allows collection of a consistent set of fundamental data for research questions that require a large sample size. Wave 2 includes a non-core component designed to address additional research questions that require smaller sample sizes.

Variable	Type	Length	Format	Comment
Dialysis Patient Questionnaire (part 1)				
USRDS_ID	Num	8	23.	USRDS assigned patient ID
HELGEN	Char	1	SGOOD5A.	D2Q A 1 General Health
HELPRE	Char	1	SCOMPMT.	D2Q A 2 Health compared to prev year
VIGACT	Char	1	SLIMIT3A.	D2Q A 3 Vigorous acts: running, heavy
MODACT	Char	1	SLIMIT3A.	D2Q A 4 Moderate acts: vacuuming, bowl
LIFT	Char	1	SLIMIT3A.	D2Q A 5 Lift/carry groceries
CLIMBMLT	Char	1	SLIMIT3A.	D2Q A 6 Climbing sever flts of stairs
CLIMBONE	Char	1	SLIMIT3A.	D2Q A 7 Climbing 1 ft of stairs
BEND	Char	1	SLIMIT3A.	D2Q A 8 Bending, kneeling, stooping
WALKMLT	Char	1	SLIMIT3A.	D2Q A 9 Walking, > 1 mile
WALKSEV	Char	1	SLIMIT3A.	D2Q A10: Walking, several blocks
WALKBLK	Char	1	SLIMIT3A.	D2Q A11: Walking, 1 block
BATHING	Char	1	SLIMIT3A.	D2Q A12: Bathing/dressing self
REDTIM	Char	1	YESNO.	D2Q A13: Phys Hlth: Reduced time on wo
ACCLESS	Char	1	YESNO.	D2Q A14: Phys Hlth: Accomplished less
LIMWRK	Char	1	YESNO.	D2Q A15: PH: Limited in kind of work
DIFFPER	Char	1	YESNO.	D2Q A16: PH: Difficulty performing wor
REDWRK	Char	1	YESNO.	D2Q A17: EP: Reduced time on work/acti
ACMPLS	Char	1	YESNO.	D2Q A18: EP: Accomplished less than li
WRKCAR	Char	1	YESNO.	D2Q A19: EP: Did not work as carefully
SOCINT	Char	1	SEXTEN5A.	D2Q A20: Amt of interference w/ social
BODPAIN	Char	1	SPAIN6A.	D2Q A21: Amount of bodily pain
PAININT	Char	1	SEXTEN5A.	D2Q A22: Amt of pain interference w/ wo
PEP	Char	1	STIME6A.	D2Q A23: Full of pep
NERVPER	Char	1	STIME6A.	D2Q A24: Nervous person
DOWNDUMP	Char	1	STIME6A.	D2Q A25: Down in dumps
CALM	Char	1	STIME6A.	D2Q A26: Calm & peaceful
ENERGY	Char	1	STIME6A.	D2Q A27: Lots of energy
DOWNBLU	Char	1	STIME6A.	D2Q A28: Downhearted & blue
WORNOUT	Char	1	STIME6A.	D2Q A29: Worn out
HAPPYPER	Char	1	STIME6A.	D2Q A30: Happy person
TIRED	Char	1	STIME6A.	D2Q A31: Feel tired
INTSOC	Char	1	STIME5A.	D2Q A32: PH/EP interference w/social ac
SICK	Char	1	STRUE5A.	D2Q A33: Get sick easier than others
HLTHEXP	Char	1	STRUE5A.	D2Q A34: Healthy as anybody
HLTWRS	Char	1	STRUE5A.	D2Q A35: Expect health to worsen
EXLHLTH	Char	1	STRUE5A.	D2Q A36: Health is excellent
INTLIFE	Char	1	STRUE5A.	D2Q A37: Kidney disease interferes w/li
TIME	Char	1	STRUE5A.	D2Q A38: Too much time spent on kidney
FRUST	Char	1	STRUE5A.	D2Q A39: Frustrated w/Kidney Disease
BURDEN	Char	1	STRUE5A.	D2Q A40: Burden on family
ISOLATE	Char	1	STIME6A.	D2Q A41: Isolate self from others
RCTSLOW	Char	1	STIME6A.	D2Q A42: React slowly to things
IRRIT	Char	1	STIME6A.	D2Q A43: Act irritable
DIFFCON	Char	1	STIME6A.	D2Q A44: Difficult to concentrate/think
GETALNG	Char	1	STIME6A.	D2Q A45: Get along well with others
CONFUSE	Char	1	STIME6A.	D2Q A46: Become confused
MUSSOR	Char	1	SEXTEN5B.	D2Q A47: Muscle soreness
CHESTPN	Char	1	SEXTEN5B.	D2Q A48: Chest pain
CRAMPS	Char	1	SEXTEN5B.	D2Q A49: Cramps
ITCHSKN	Char	1	SEXTEN5B.	D2Q A50: Itchy skin
DRYSKN	Char	1	SEXTEN5B.	D2Q A51: Dry skin
BREATH	Char	1	SEXTEN5B.	D2Q A52: Shortness of breath
FAINT	Char	1	SEXTEN5B.	D2Q A53: Faintness/dizziness
APPET	Char	1	SEXTEN5B.	D2Q A54: Lack of appetite
DRAIN	Char	1	SEXTEN5B.	D2Q A55: Washed out/drained
NUMB	Char	1	SEXTEN5B.	D2Q A56: Numbness in hands/feet
NAUSEA	Char	1	SEXTEN5B.	D2Q A57: Nausea/upset stomach
ACSPROB	Char	1	SEXTEN5B.	D2Q A58: Problems with access/catheter
FLDRST	Char	1	SEXTEN5B.	D2Q A59: Fluid restrictions

DMMSWAV2: DMMS Wave 2 Patients (continued)

Variable	Type	Length	Format	Comment
DITRST	Char	1	SEXTEN5B.	D2Q A60: Dietary restrictions
WRKABL	Char	1	SEXTEN5B.	D2Q A61: Ability to work around house
TRVABL	Char	1	SEXTEN5B.	D2Q A62: Ability to travel
DEPEND	Char	1	SEXTEN5B.	D2Q A63: Dependent on doctors/staff
STRESS	Char	1	SEXTEN5B.	D2Q A64: Stress/worried by kidney disease
SEXLF	Char	1	SEXTEN5B.	D2Q A65: Sex life
ENJSEX	Char	1	SPROBLEM.	D2Q A66: Ability to relax/enjoy sex
AROUSABL	Char	1	SPROBLEM.	D2Q A67: Difficulty becoming sexually active
REST	Char	1	YESNO.	D2Q A68: Lie down more often to rest
NAP	Char	1	YESNO.	D2Q A69: Sleep/nap during day
SLEEPLS	Char	1	YESNO.	D2Q A70: Sleep less at night
SLEEPQLT	Char	2	SQUAL10A.	D2Q A71: Quality of sleep-30 days
TOGETH	Char	1	SGOOD5B.	D2Q A72: Together w/ family & friends
SUPPORT	Char	1	SGOOD5B.	D2Q A73: Support from family/friends
WRKPT	Char	1	YESNO.	D2Q A74a: Able to work part-time
WRKFT	Char	1	YESNO.	D2Q A74b: Able to work full-time
EMPLST	Char	1	SWORK8A.	D2Q A75: Employment status
FRIENDLY	Char	1	SGOOD7A.	D2Q A76: Friendliness/interest of staff
ENCOURGD	Char	1	STRUE5B.	D2Q A77: Encouraged to lead normal life
COUNSLD	Char	1	STRUE5B.	D2Q A78: Counseled to achieve full reha
Dialysis Patient Questionnaire (part 2)				
WHNTLD	Char	1	STIMBF1A.	D2Q B1: When told of abnormal kidney function
BLDTST	Char	1	STIMBF2A.	D2Q B2: Blood test from physician
WHNSAW	Char	1	STIMBF3A.	D2Q B3: When patient first saw nephrologist
NEPHVST	Char	1	SVISITS.	D2Q B4: Visits to nephrologist prior to dialysis
DIETVST	Char	1	SONCE3A.	D2Q B5: Visits with dietitian
APLOSS	Char	1	STIMBF4A.	D2Q B6: Onset of appetite loss
VOMIT	Char	1	STIMBF4A.	D2Q B7: Onset of nausea/vomiting
BICARB	Char	1	YESNON.	D2Q B8a: Treatment w/bicarbonate
EPO	Char	1	YESNON.	D2Q B8b: Treatment w/erythropoietin
AVOIDBLD	Char	1	YESNON.	D2Q B9: Told to avoid blood draws/intra
NUMMONTH	Char	2		D2Q B9a: # months prior to start of HD
Dialysis Patient Questionnaire (part 3)				
ODCAPDHM	Char	1	SNOYES.	D2Q C 1: Treat opt disc: CAPD at home
ODDIALHM	Char	1	SNOYES.	D2Q C 1: Treat opt disc: HD at home
ODDIALUN	Char	1	SNOYES.	D2Q C 1: Treat opt disc: HD in dial unit
ODOTHER	Char	1	SNOYES.	D2Q C 1: Treat opt disc: other
ODPERCEN	Char	1	SNOYES.	D2Q C 1: Treat opt disc: PD at center
ODPERCYC	Char	1	SNOYES.	D2Q C 1: Treat opt disc: PD with cycl ma
ODTRANS	Char	1	SNOYES.	D2Q C 1: Treat opt disc: Transplant
OTHTRMT	Char	40		D2Q C 1a Other treat disc, text
CHOSMTD	Char	1	SSELECT.	D2Q C 2: Method of choosing treatment
HLGRPDIS	Char	1	SNOYES.	D2Q C 3: Grp. disc/class expl. tx option
HLFAMDIS	Char	1	SNOYES.	D2Q C 3: Ind. disc w/fam, friends, oth pts
HLDISCPH	Char	1	SNOYES.	D2Q C 3: Ind. discussion with physician
HLDISCSW	Char	1	SNOYES.	D2Q C 3: Ind. discussion with social work
HLOTHER	Char	1	SNOYES.	D2Q C 3: None of the above
HLVIDEO	Char	1	SNOYES.	D2Q C 3: Videotape materials
HLWRITEN	Char	1	SNOYES.	D2Q C 3: Written materials
HOWLRN2	Char	40		D2Q C 3a: Oth way inform of tx options, text
TRANSDIS	Char	1	YESNON.	D2Q C 4: Transplant option discussed
TRANSEVL	Char	1	YESNON.	D2Q C 5: Evaluated for Transplant
WAITLIST	Char	1	YESNON.	D2Q C 6: On a Transplant waitlist
CLOSENS	Char	1	SIMPORT.	D2Q C 7a: Impor of close facility
TRTSCHED	Char	1	SIMPORT.	D2Q C 7b: Conven. of treat sched.
DIALTYP	Char	1	SIMPORT.	D2Q C 7c: Type of dialysis offered
DIALREUS	Char	1	SIMPORT.	D2Q C 7d: Dialyzer reuse policy
PHYSREC	Char	1	SIMPORT.	D2Q C 7e: Physician recommendation
FACCOM	Char	1	SIMPORT.	D2Q C 7f: Comfort of facility
PERITCOM	Char	1	SAGREE6A.	D2Q C 8a: Peritonitis common complication
LONGER	Char	1	SAGREE6A.	D2Q C 8b: HD treatment more lengthy than PD
FLEXIBLE	Char	1	SAGREE6A.	D2Q C 8c: PD allows more flexibility
NOTSTRCT	Char	1	SAGREE6A.	D2Q C 8d: Diet less strict with HD
FLDSTRCT	Char	1	SAGREE6A.	D2Q C 8e: Fluid restrict less on PD

DMMSWAV2: DMMS Wave 2 Patients (continued)

Variable	Type	Length	Format	Comment
NEEDLES	Char	1	\$AGREE6A.	D2Q C 8f: Patient aversion to needles
MORESTRS	Char	1	\$AGREE6A.	D2Q C 8g: PD more stressful than HD
DIFWRK	Char	1	\$AGREE6A.	D2Q C 8h: HD more difficult to work/sch
BURDFAM	Char	1	\$AGREE6A.	D2Q C 8i: HD is burden on family
SOCIALZE	Char	1	\$AGREE6A.	D2Q C 8j: Like to socialize w/oth pts/st
LIVEFAR	Char	1	\$AGREE6A.	D2Q C 8k: Live far from HD facility
MEDPROB	Char	1	\$AGREE6A.	D2Q C 8l: Med probs precluded txt choice
MOSTIMP	Char	1		D2Q C 9: Most imp reason for txt choice
BESTQLTY	Char	1	\$QOLHDPD.	D2Q C10: Which treatment provides best
LONGLIFE	Char	1	\$QOLHDPD.	D2Q C11: Which treatment provides longe
MISXCHG	Char	1	\$MISSEDX.	D2Q C12: # times CAPD patient missed ex
MISSTRMT	Char	1	\$CYCLER.	D2Q C13: # times cycler missed a treatm
SHRTRMT	Char	1	\$CYCLER.	D2Q C14: # times cycler shortened treat
SIGDAY	Char	2		D2Q CV: Day of signature
SIGMONTH	Char	2		D2Q CV: Month of signature
SIGNAT	Char	1		D2Q CV: Presence of signature
SIGYR	Char	2		D2Q CV: Year of signature
Dialysis Patient Questionnaire (part 4)				
MINFAC	Char	1	\$DIST.	D2Q D1: # of minutes to dialysis facili
METRANS	Char	1	\$TRANS.	D2Q D2: Method of transportation to fac
NODRIVE	Char	1	\$NOYES.	D2Q D3: Does not know how to drive
GURNEY	Char	1	\$NOYES.	D2Q D3: Must be transported on stretche
NOCAR	Char	1	\$NOYES.	D2Q D3: No access to a car
NOTABLE	Char	1	\$NOYES.	D2Q D3: No longer able to drive a car
DRVOTHER	Char	1	\$NOYES.	D2Q D3: Other reason pt. cannot drive
NEEDHELP	Char	1	\$NOYES.	D2Q D3: Requires help walking/climbing
TOOWEAK	Char	1	\$NOYES.	D2Q D3: Too weak/sick after dialysis
NOTDRIV2	Char	40		D2Q D3a: Other reason for not driving
PERHLP	Char	1	\$WHHLP2A.	D2Q D4: Person who helps w/ transport
DIALUNIT	Char	1	\$NOYES.	D2Q D5: Who pays: Dialysis Unit
MYSELF	Char	1	\$NOYES.	D2Q D5: Who pays: Myself/family
WPOTHER	Char	1	\$NOYES.	D2Q D5: Who pays: Other
PUBAGEN	Char	1	\$NOYES.	D2Q D5: Who pays: Public agency/charit
TRANPRB1	Char	1	\$YESNO.	D2Q D6a: Short treatment due to transpo
TRANPRB2	Char	1	\$YESNO.	D2Q D6b: Skip treatment due to transpor
Dialysis Patient Questionnaire (part 5)				
WAGERATE	Num	8		D2Q E1: Wage rate
NOTEMP	Char	1	\$NOYES.	D2Q E1a: Not currently employed
WAGEST	Num	8		D2Q E2: Estimated wage rate if not empl
WRKLMT1	Char	1	\$YESNO.	D2Q E3: Work type limited due to health
WRKLMT2	Char	1	\$YESNO.	D2Q E4: Work amt limited due to health
Dialysis Patient Questionnaire (part 6)				
EXFREQ	Char	1	\$EXER.	D2Q F1: Frequency of exercise
QUALCAR	Char	1	\$GOOD5A.	D2Q F2: Feelings about quality of self-
NWTRTDM	Char	1	\$NOYES.	D2Q F3: Not working: Dial trt is too d
NWNOND	Char	1	\$NOYES.	D2Q F3: Not working: Did not want/need
NWNOFLX	Char	1	\$NOYES.	D2Q F3: Not working: Facility sched. i
NWRTRD	Char	1	\$NOYES.	D2Q F3: Not working: I am retired
NWTRD	Char	1	\$NOYES.	D2Q F3: Not working: Job is too tiring
NWLSBNFT	Char	1	\$NOYES.	D2Q F3: Not working: Lose benefits, cl
NWOTHDT	Char	1	\$NOYES.	D2Q F3: Not working: Needed for other
NWNOJB	Char	1	\$NOYES.	D2Q F3: Not working: No other job avai
NWTOOSK	Char	1	\$NOYES.	D2Q F3: Not working: Too sick, too muc
DESWRK	Char	1	\$WANTWRK.	D2Q F4: Desire to return to work
SCHEDINT	Char	1	\$EXTEN5C.	D2Q F5a: Treatment interfere w/ work sc
SCHEDCHG	Char	1	\$EXTEN5C.	D2Q F5b: Treatment schedule could chang
SCHEDNOT	Char	1	\$EXTEN5C.	D2Q F5c: No treatment schedule avail to
ASSTGVN	Char	1	\$YESNO.	D2Q F6: Assistance given to complete fo
WHOGAVE	Char	1	\$WHOHELP.	D2Q F7: Who helped complete form
Medical Questionnaire (DMMS-Prospective)				
DMMS_ID	Num	8	23.	DMMS Patient ID
S_BORN	Num	8	DATE9.	DW2.M Date of birth calculated
DIALDAY	Char	2		DW2.M : First Dialysis day
DIALMTH	Char	2		DW2.M : First Dialysis Month

DMMSWAV2: DMMS Wave 2 Patients (continued)

Variable	Type	Length	Format	Comment
DIALYR	Char	2		DW2.M : First Dialysis year
TREATMO	Char	1	\$HDPD.	DW2.M : Modality of Treatment H/PD
COMPDP	Char	1	\$YESNO.	DW2.M : Patient complete Dialysis PtQ\
BIRTHDAY	Char	2		DW2.M : Patients Birth day
BIRTHMTH	Char	2		DW2.M : Patients Birth Mth
BIRTHYR	Char	2		DW2.M : Patients Birth yr
SSDAY	Char	2		DW2.M : Study Start day
SSMTH	Char	2		DW2.M : Study Start month
SSYR	Char	2		DW2.M : Study Start year
COMPDAY	Char	2		DW2.M A 2: day Completed
COMPMT	Char	2		DW2.M A 2: mth Completed
COMPYR	Char	2		DW2.M A 2: yr Completed
ETHNIC	Char	1	\$YNFMT.	DW2.M A 3: Ethnicity (Hispanic or Not)
S_RACE	Char	1	\$RACEDMS.	DW2.M A 4: Race
S_ZIP	Char	5		DW2.M A 5: Patients Zipcode
FDIALDAY	Char	2		DW2.M A 6: day of fst chron maint dial
FDIALMTH	Char	2		DW2.M A 6: mth of fst chron maint dial
FDIALYR	Char	2		DW2.M A 6: year of fst chron maint dial
SSD_W2	Num	8	\$DATE9.	DW2.M A 7 Study start date
SSDAY1	Char	2		DW2.M A 7: Study Start day A6+60days
SSMTH1	Char	2		DW2.M A 7: Study Start mth A6+60days
SSYR1	Char	2		DW2.M A 7: Study Start yr A6+60days
YEAR	Num	8		DW2.M A 7c year of study start date
DATESAME	Char	1	\$YESNO.	DW2.M A 8: was A6=earliest dial
EDIALDAY	Char	2		DW2.M A 8a: Earliest day
EDIALMTH	Char	2		DW2.M A 8a: Earliest mth
EDIALYR	Char	2		DW2.M A 8a: Earliest yr
BCROSS2	Char	1	\$YESNO.	DW2.M A 9a: Blue Cross at/near A7
BCROSS1	Char	1	\$YESNO.	DW2.M A 9a: Blue Cross month bfore A6
PRIVATE1	Char	1	\$YESNO.	DW2.M A 9b: Private month bfore A6
PRIVATE2	Char	1	\$YESNO.	DW2.M A 9b: Private at/near A7
MEDICAR2	Char	1	\$YESNO.	DW2.M A 9c: Medicare at/near A7
MEDICAR1	Char	1	\$YESNO.	DW2.M A 9c: Medicare month bfore A6
MEDPEND	Char	1	\$YESNO.	DW2.M A 9c: Medicare Pending at/n A7
MED2_2	Char	1	\$YESNO.	DW2.M A 9c: Medicare secondary at/n A7
MED2_1	Char	1	\$YESNO.	DW2.M A 9c: Medicare secondary mth bf A6
MCAID2	Char	1	\$YESNO.	DW2.M A 9d: Medicaid at/near A7
MCAID1	Char	1	\$YESNO.	DW2.M A 9d: Medicaid month bfore A6
VA_2	Char	1	\$YESNO.	DW2.M A 9e: VA at/near date A7
VA_1	Char	1	\$YESNO.	DW2.M A 9e: VA mon before date A6
OTHINS2	Char	1	\$YESNO.	DW2.M A 9f: Other Insurance at/near A7
OTHINS1	Char	1	\$YESNO.	DW2.M A 9f: Other Insurance Mth bfore A6
NOINS2	Char	1	\$YESNO.	DW2.M A 9g: No Insurance at/near A7
NOINS1	Char	1	\$YESNO.	DW2.M A 9g: No Insurance Mth bfore A6
HMO2	Char	1	\$YESNO.	DW2.M A 9h: HMO at/near A7
HMO1	Char	1	\$YESNO.	DW2.M A 9h: HMO mth bfore A6
PC_DIS	Char	1	\$SPDISD2W.	DW2.M B 1: Primary Cause of ESRD
HIV	Char	1	\$SHIVFMT.	DW2.M B 10: HIV Status
AIDS	Char	1	\$SHIVFMT.	DW2.M B 11: Diagnosed w/ AIDS
SMOKING	Char	1		DW2.M B 2: Smoking status
CHD_CAD	Char	1	\$SSUSPCT.	DW2.M B 3a: Prior Dx of CHD/CAD
ANGINA	Char	1	\$SSUSPCT.	DW2.M B 3b: Angina
MI	Char	1	\$SSUSPCT.	DW2.M B 3c: MI
CABG	Char	1	\$SSUSPCT.	DW2.M B 3d: Bypass Surgery
ANGIOPLA	Char	1	\$SSUSPCT.	DW2.M B 3e: Coronary Angioplasty
AN_GRABN	Char	1	\$SSUSPCT.	DW2.M B 3f: Coronary Angio. abnormal
ANGIOGRA	Char	1	\$SSUSPCT.	DW2.M B 3f: Coronary Angiography
CARDARR	Char	1	\$SSUSPCT.	DW2.M B 3g: Cardiac arrest
CEREBROV	Char	1	\$SSUSPCT.	DW2.M B 4a: Cerebrovascular Accident
TIA	Char	1	\$SSUSPCT.	DW2.M B 4b: Transient Ischemic attacks
PVD	Char	1	\$SSUSPCT.	DW2.M B 5a: Peripheral Vascular Disease
AMPUTATA	Char	1	\$SSUSPCT.	DW2.M B 5b: Amputation due to PVD
LIMBAMP	Char	1	\$SSUSPCT.	DW2.M B 5c: Limb amputation (other)
ABS_PULS	Char	1	\$SSUSPCT.	DW2.M B 5d: Absent foot pulses

DMMSWAV2: DMMS Wave 2 Patients (continued)

Variable	Type	Length	Format	Comment
CLAUDIC	Char	1	SSUSPCT.	DW2.M B 5e: Claudication
CONG_H	Char	1	SSUSPCT.	DW2.M B 6a: Congestive Heart failure
PERICARD	Char	1	SSUSPCT.	DW2.M B 6b: Pericarditis
PULMED	Char	1	SSUSPCT.	DW2.M B 6c: Pulmonary edema
DX_DIAB	Char	1	SSUSPCT.	DW2.M B 7: Prior Dx of Diabetes
INSULIN	Char	1	SNEVRFMT.	DW2.M B 7a: Insulin therapy
DPILLS	Char	1	SNEVRFMT.	DW2.M B 7b: Diabetes Pills
LUNGDIS	Char	1	SSUSPCT.	DW2.M B 8: History of Lung Disease
NEOPLASM	Char	1	SSUSPCT.	DW2.M B 9: Neoplasms (other than skin)
NEO_TYPE	Char	2	SNEOSITE.	DW2.M B 9a: Neoplasm primary site/type
NEO_TYP2	Char	2	SNEOSITE.	DW2.M B 9a: Neoplasm second site/type
NEO_YEAR	Char	2		DW2.M B 9b: Year of first neoplasm Dx
BILAMP	Char	1		DW2.M C 1: Bilateral amputee
HT_CM	Num	8		DW2.M C 1: Height - Cm.
HT_FT	Num	8		DW2.M C 1: Height - ft.
HT_IN	Num	8		DW2.M C 1: Height - In.
ALONE	Char	1	SALONE.	DW2.M C 10: Living Alone
EDUCAT	Char	1	SEDELEV.	DW2.M C 11: Education
OCCUPAT	Char	2	SOCCUP.	DW2.M C 12: Occupation level before ESRD
EMP_2YR	Char	2	SEMPDMMS.	DW2.M C 13a: Emp. 24-6mths before ESRD
EMP_NDT	Char	2	SEMPDMMS.	DW2.M C 13a: Employment at SSDate
LOOKEMP	Char	1	SYESNO.	DW2.M C 14: Looking for Employment
AFT_WTKG	Num	8		DW2.M C 2: Dry weight - Kilograms
AFT_WTLB	Num	8		DW2.M C 2: Dry weight - pounds
UNDNOUR	Char	1	SSUSPCT.	DW2.M C 3: Undernourished
PRE_DBP2	Num	8		DW2.M C 4a: DBP at SSD / predial 2nd
PRE_DBP3	Num	8		DW2.M C 4a: DBP at SSD / predial 3rd
PRE_DBP	Num	8		DW2.M C 4a: DBP at SSD / predialysis
PRE_SBP2	Num	8		DW2.M C 4a: SBP at SSD / predial 2nd
PRE_SBP3	Num	8		DW2.M C 4a: SBP at SSD / predial 3rd
PRE_SBP	Num	8		DW2.M C 4a: SBP at SSD / predialysis
PREWT_1	Num	8		DW2.M C 4a: Weight at SSD / predial
PREWT_2	Num	8		DW2.M C 4a: Weight at SSD / predial 2nd
PREWT_3	Num	8		DW2.M C 4a: Weight at SSD / predial 3rd
PRW_KGLB	Num	8		DW2.M C 4a: Weight predial Kg or Lb
PST_DBP	Num	8		DW2.M C 4b: DBP at SSD / pstdial
PST_DBP2	Num	8		DW2.M C 4b: DBP at SSD / pstdial 2nd
PST_DBP3	Num	8		DW2.M C 4b: DBP at SSD / pstdial 3rd
PST_SBP	Num	8		DW2.M C 4b: SBP at SSD / pstdial
PST_SBP2	Num	8		DW2.M C 4b: SBP at SSD / pstdial 2nd
PST_SBP3	Num	8		DW2.M C 4b: SBP at SSD / pstdial 3rd
PSTWT_1	Num	8		DW2.M C 4b: Weight at SSD / postdial
PSTWT_2	Num	8		DW2.M C 4b: Weight at SSD / pstdial 2nd
PSTWT_3	Num	8		DW2.M C 4b: Weight at SSD / pstdial 3rd
DIALYSAT	Char	1	SDISATE.	DW2.M C 5a: Dialysate
HEMO_HRS	Num	8		DW2.M C 5b: Hemo - Presc hours/ treat
HEMO_MIN	Num	8		DW2.M C 5b: Hemo - Presc Minutes/ treat
SESSIONS	Num	8		DW2.M C 5c: Hemo - No. Sessions / week
BFR	Num	8		DW2.M C 5d: Hemo - Blood flow rate
DIALMAKE	Char	15		DW2.M C 5g: Hemo - Dialyzer make
DIALMODL	Char	19		DW2.M C 5g: Hemo - Dialyzer model
DIALYZER	Char	4		DW2.M C 5g: Hemo - Dialyzer type
ACCESS1	Char	1	SVASTYPE.	DW2.M C 5h: Hemo - Vascular access FD dt
ACCESS2	Char	1	SVASTYPE.	DW2.M C 5h: Hemo - Vascular access SS dt
AC1_SIDE	Char	1	SSIDE.	DW2.M C 5i: Hemo - Side of access FD dt
AC2_SIDE	Char	1	SSIDE.	DW2.M C 5i: Hemo - Side of access SS dt
SURGDAY	Char	2		DW2.M C 5j: day of Surgery for VA
ACCFAIL	Char	1	SYESNO.	DW2.M C 5j: Hemo - Access Fail
ACCMATUR	Char	1	SYESNO.	DW2.M C 5j: Hemo - Access mature
ACCREVIS	Char	1		DW2.M C 5j: Hemo - Access Revision
FACCDAY	Char	2		DW2.M C 5j: Hemo - day of 1st use of VA
FACCMTH	Char	2		DW2.M C 5j: Hemo - mth of 1st use of VA
ACCTYPE	Char	1	SVASTYPE.	DW2.M C 5j: Hemo - Type of access
FACCYR	Char	2		DW2.M C 5j: Hemo - yr of 1st use of VA

DMMSWAV2: DMMS Wave 2 Patients (continued)

Variable	Type	Length	Format	Comment
SURGMTH	Char	2		DW2.M C 5j: mth of Surgery for VA
SURGYR	Char	2		DW2.M C 5j: yr of Surgery for VA
SUBCLAV	Char	1	SACCTYPE.	DW2.M C 5k: Hemo - Any Subclavian
INTJUG	Char	1	SACCTYPE.	DW2.M C 5k: Hemo - Internal Jugular
ACCTEMP	Char	1	SYESNO.	DW2.M C 5k: Hemo - Temp. Access
SKIPDIAL	Num	8		DW2.M C 5l: Number of treats skipped
SHRTDIAL	Num	8		DW2.M C 5m: Treats shortnd by gt 10 min
PD_BSSD	Char	1	SYESNO.	DW2.M C 5n: PD before SSD
PCATHDAY	Char	2		DW2.M C 5o: day PD catheter
PCATHMTH	Char	2		DW2.M C 5o: mth PD catheter
PCATHYR	Char	2		DW2.M C 5o: yr PD catheter
PDLOCAT	Char	1	SPERILOC.	DW2.M C 6a: PD - Dialysis Location
PDIALTYP	Char	1	SPDTYPE.	DW2.M C 6b: PD - Dialysis Type
EXCYDAY	Num	8		DW2.M C 6c: # exchanges/day - cycler
EXMNDAY	Num	8		DW2.M C 6c: # exchanges/day - manual
DAYS_CYC	Num	8		DW2.M C 6c: days/week - cycler
DAYS_MAN	Num	8		DW2.M C 6c: days/Week - manual
LT_EXCY	Num	8		DW2.M C 6c: liters/exchange - Cycler
LT_EXMN	Num	8		DW2.M C 6c: liters/exchange - manual
DIALY_VM	Num	8		DW2.M C 6c: Total Dialysate volume/24hrs
HRS_CYC	Num	8		DW2.M C 6c: total hrs/day on cycler
PDCATH	Char	1		DW2.M C 6d: Type of PD cath on SSD
CATHDAY	Char	2		DW2.M C 6e: day of Catheter on SSD
CATHMTH	Char	2		DW2.M C 6e: mth of Catheter on SSD
CATHYR	Char	2		DW2.M C 6e: yr of Catheter on SSD
FSTPDC	Char	1	SYESNO.	DW2.M C 6f: 1st PD cath
HEMO_BPD	Char	1	SYESNO.	DW2.M C 6g: Hemo before SSD
PERMVA_B	Char	1	SYESNO.	DW2.M C 6h: Permanent VA before SSD
BUN_SD	Num	8		DW2.M C 7: BUN (same day)
DIALCRET	Num	8		DW2.M C 7: Dialysate Creatinine
DIALUREA	Num	8		DW2.M C 7: Dialysate Urea N
SERCRET	Num	8		DW2.M C 7: Serum Creatinine
VOLDRAIN	Num	8		DW2.M C 7: Total Volume drained
IND_EAT	Char	1	SYESNO.	DW2.M C 8a: Independent eating
IND_XFER	Char	1	SYESNO.	DW2.M C 8b: Independent transferring
IND_AMBU	Char	1	SYESNO.	DW2.M C 8c: Independent Ambulating
MAR_STAT	Char	1	\$MARSTAT.	DW2.M C 9: Marital Status
XRAY	Char	1	SYESNO.	DW2.M D 1: Cardiomegaly by X-ray
SER_ALB	Num	8		DW2.M D 10: Serum Albumin Predialysis
CHOLEST	Num	8		DW2.M D 11a: Cholesterol
CHOL_HDL	Num	8		DW2.M D 11b: HDL Cholesterol
CHOL_LDL	Num	8		DW2.M D 11c: LDL Cholesterol
TRIGLY	Num	8		DW2.M D 11d: Triglycerides
SER_PTH	Num	8		DW2.M D 12: Serum intact PTH
SER_ALUM	Num	8		DW2.M D 13: Serum Aluminum (random)
THRS_UC	Num	8		DW2.M D 14a: Total Hrs of Urine Collect.
UCEDTMDY	Char	1		DW2.M D 14a: Urine Collect. end AM/PM
UCEDDT_D	Char	2		DW2.M D 14a: Urine Collect. end dt day
UCEDDT_M	Char	2		DW2.M D 14a: Urine Collect. end dt mth
UCEDTM_H	Char	2		DW2.M D 14a: Urine Collect. end tm. Hr
UCEDTM_M	Char	2		DW2.M D 14a: Urine Collect. end tm. min
UCSTTMDY	Char	1		DW2.M D 14a: Urine Collect. st. AM/PM
UCSTDT_M	Char	2		DW2.M D 14a: Urine Collect. st. Dt Month
UCSTDT_D	Char	2		DW2.M D 14a: Urine Collect. st. dt. Day
UCSTTM_H	Char	2		DW2.M D 14a: Urine Collect. st. tm. Hr
UCSTTM_M	Char	2		DW2.M D 14a: Urine Collect. st. tm. Min
PREBUN_2	Num	8		DW2.M D 14b: BUN Predial of U.Collect.
PSTBUN_2	Num	8		DW2.M D 14b: BUN pstdial of U. Collect.
PSTCREAT	Num	8		DW2.M D 14b: Post Creatinine
PRECREAT	Num	8		DW2.M D 14b: Pre Creatinine
URINE_CR	Num	8		DW2.M D 14b: Urine Creatinine
U_UNITS	Num	8		DW2.M D 14b: Urine Units
UUNITROG	Num	8		DW2.M D 14b: Urine Urea Nitrogen
URINE_VM	Num	8		DW2.M D 14b: Urine Volume

DMMSWAV2: DMMS Wave 2 Patients (continued)

Variable	Type	Length	Format	Comment
MED1	Char	12		DW2.M D 15: Medications at SSD
MED2	Char	12		DW2.M D 15: Medications at SSD
MED3	Char	12		DW2.M D 15: Medications at SSD
MED4	Char	12		DW2.M D 15: Medications at SSD
MED5	Char	12		DW2.M D 15: Medications at SSD
MED6	Char	12		DW2.M D 15: Medications at SSD
MED7	Char	12		DW2.M D 15: Medications at SSD
MED8	Char	12		DW2.M D 15: Medications at SSD
MED9	Char	12		DW2.M D 15: Medications at SSD
MED10	Char	12		DW2.M D 15: Medications at SSD
MED11	Char	12		DW2.M D 15: Medications at SSD
MED12	Char	12		DW2.M D 15: Medications at SSD
MED13	Char	12		DW2.M D 15: Medications at SSD
MED14	Char	12		DW2.M D 15: Medications at SSD
MED15	Char	12		DW2.M D 15: Medications at SSD
VITAMN_D	Char	1	SYESNO.	DW2.M D 16: Injectable Vit.D at SSD
EKG	Char	1	SYESNO.	DW2.M D 2a: Left Ventr. Hyper. by EKG
ECHOCARD	Char	1	SYESNO.	DW2.M D 2b: Left Ventr. hyper. by echogr
SER_CAL	Num	8		DW2.M D 3: Serum calcium, predialysis
PHOSPH	Num	8		DW2.M D 4: Serum Phosphorous
SER_BIC	Num	8		DW2.M D 5: Serum Bicarbonate
HEMATO	Num	8		DW2.M D 6a: Hematocrit
HEMOGLOB	Num	8		DW2.M D 6b: Hemoglobin
TRANS	Char	1	SYESNO.	DW2.M D 6c: Receive Transfusion / 2mo
NUMTRANS	Num	8		DW2.M D 6d: Number of Transfusions recd
EPO1	Char	1	SYESNO.	DW2.M D 7a: Taking EPO
EPO_FS	Char	1	SYESNO.	DW2.M D 7a: Taking EPO During fst 60days
EPOTYPE	Char	1	SEPOADM.	DW2.M D 7a: Type of EPO
EPO_LAST	Char	1	SYESNO.	DW2.M D 7b: Taking EPO During 30days bf
CREAT2	Num	8		DW2.M D 8a: Serum Creatinine Bf fst dial
CREAT1	Num	8		DW2.M D 8b: Serum Creatinine at SSDate
UREAVAL	Num	8		DW2.M D 9: Urea or BUN
BUN_BFST	Num	8		DW2.M D 9a: BUN of Urea value FSTdial
PSTBUN_1	Num	8		DW2.M D 9b: BUN Postdialysis SSDate
PREBUN_1	Num	8		DW2.M D 9b: BUN Predialysis SSDate
BUNWT_LK	Num	8		DW2.M D 9c: Pre/Pst Weight in Lb/KG
PSTWT	Num	8		DW2.M D 9c: WGT postdialysis
PREWT	Num	8		DW2.M D 9c: WGT predialysis
Medical Update Questionnaire				
CORRDOB	Char	2		DW2.MFUP : Correct Day of Birth
CORRDY60	Char	2		DW2.MFUP : Correct Day of Day 60
CORRMOD	Char	30		DW2.MFUP : Correct Modality at Day60
CORRMOB	Char	2		DW2.MFUP : Correct Month of Birth
CORRMT60	Char	2		DW2.MFUP : Correct Month of Day 60
CORRYOB	Char	2		DW2.MFUP : Correct year of Birth
CORRYR60	Char	2		DW2.MFUP : Correct Year of Day 60
SSTMOD	Char	1		DW2.MFUP : Modality at Study Start
NET_FU	Char	3	SNETFMT.	DW2.MFUP : Network
EXPIRED	Char	1		DW2.MFUP : Patient Expired
SSDAY_FU	Char	2		DW2.MFUP : Study Start Day
SSMTH_FU	Char	2		DW2.MFUP : Study Start Month
SSYR_FU	Char	2		DW2.MFUP : Study Start Year
DATE_DAY	Char	2		DW2.MFUP : Todays Day
DATE_MTH	Char	2		DW2.MFUP : Todays Month
DATE_YR	Char	2		DW2.MFUP : Todays Year
CHNG_FDT	Num	8	DATE9.	DW2.MFUP A1: Date of 1st Change In Statu
CHNG_DAY	Char	2		DW2.MFUP A1: Day of 1st change status
CHNG_MTH	Char	2		DW2.MFUP A1: Month of 1st change status
CHNG_TYP	Char	2	\$FUCHGTY.	DW2.MFUP A1: Type of Change in Status
CHNG_YR	Char	2		DW2.MFUP A1: Year of 1st change status
CURRFDT	Num	8	DATE9.	DW2.MFUP A2: Date of Current Status
CURR_DAY	Char	2		DW2.MFUP A2: Day of Current Status
CURR_MTH	Char	2		DW2.MFUP A2: Month of Current Status
CURRSTAT	Char	1	\$FUPSTAT.	DW2.MFUP A2: Pts Current Status

DMMSWAV2: DMMS Wave 2 Patients (continued)

Variable	Type	Length	Format	Comment
CURR_YR	Char	2		DW2.MFUP A2: Year of Current Status
MOD_NOW	Char	1	SFUMODAL.	DW2.MFUP B1: Patients current Modality
URINE	Char	1	SFUURINE.	DW2.MFUP B2: Approx. urine output
PREBN_FU	Num	8		DW2.MFUP B3a: Pre Dialysis BUN
PREWT_FU	Num	8		DW2.MFUP B3a: Pre Dialysis Weight
PRE_KGLB	Char	1	SLBKG.	DW2.MFUP B3a: Pre Weight in KG or LB
PSTBN_FU	Num	8		DW2.MFUP B3b: Post Dialysis BUN
PSTWT_FU	Num	8		DW2.MFUP B3b: Post Dialysis Weight
PST_KGLB	Char	1	SLBKG.	DW2.MFUP B3b: Post Weight in KG or LB
URNE_FDT	Num	8	DATE9.	DW2.MFUP B4: Urine Collection End Dt
URNS_FDT	Num	8	DATE9.	DW2.MFUP B4: Urine Collection St DT
THRSU_FU	Num	8		DW2.MFUP B4a: Total hours of urine Coll.
URNEDTHR	Num	8		DW2.MFUP B4a: Urine Coll. End Time (hr)
URNEDTMN	Num	8		DW2.MFUP B4a: Urine Coll. End Time (min)
URNEDTDY	Char	1		DW2.MFUP B4a: Urine Coll. End time day
URNSTTHR	Num	8		DW2.MFUP B4a: Urine Coll. Start time (hr)
URNSTTDY	Char	1		DW2.MFUP B4a: Urine Coll. Start time day
URNSTTMN	Num	8		DW2.MFUP B4a: Urine Coll. Start time(min)
URNEDDAY	Char	2		DW2.MFUP B4a: Urine Collection End Day
URNEDMTH	Char	2		DW2.MFUP B4a: Urine Collection End Mth
URNEDYR	Char	2		DW2.MFUP B4a: Urine Collection End Yr
URNSTDAY	Char	2		DW2.MFUP B4a: Urine Collection St. Day
URNSTMTH	Char	2		DW2.MFUP B4a: Urine Collection St. Mth
URNSTYR	Char	2		DW2.MFUP B4a: Urine Collection St. Year
BUNED_FU	Num	8		DW2.MFUP B4b: End BUN
SCRED_FU	Num	8		DW2.MFUP B4b: End Serum Creatinine
UNIT_TYP	Char	1	SFUNITYP.	DW2.MFUP B4b: Lab Values unit type
BUNST_FU	Num	8		DW2.MFUP B4b: Start BUN
SCRST_FU	Num	8		DW2.MFUP B4b: Start Serum Creatinine
URNCR_FU	Num	8		DW2.MFUP B4b: Urine Creatinine
URNNT_FU	Num	8		DW2.MFUP B4b: Urine Urea Nitrogen
URNVM_FU	Num	8		DW2.MFUP B4b: Urine Volume
VAPRM_FU	Char	1	SYESNO.	DW2.MFUP C1: VA Perm ever attempted
VA1PM_FU	Char	1	SFU VATYP.	DW2.MFUP C2: 1st perm. VA type attempted
CORR_PVA	Char	1	SFU VATYP.	DW2.MFUP C2: Corrected VAPerm type
ASIDE_FU	Char	1	SSIDE.	DW2.MFUP C2: What Side was this 1stPVA
SGDAY_FU	Char	2		DW2.MFUP C3: Day of Surgery 1st VAPerm
SURG_FDT	Num	8	DATE9.	DW2.MFUP C3: Dt of Surgery 1st permVA
SGMTH_FU	Char	2		DW2.MFUP C3: Mth of Surgery 1st VAPerm
SGYR_FU	Char	2		DW2.MFUP C3: Year of Surgery 1st VAPerm
AFAIL_F1	Char	1	SYESNO.	DW2.MFUP C4: 1PVA fail predial, notused
VADAY_FU	Char	2		DW2.MFUP C4: Day this 1st PVA was used
VAST_FDT	Num	8	DATE9.	DW2.MFUP C4: Dt 1st Perm VA was used
VAMTH_FU	Char	2		DW2.MFUP C4: Month this 1st PVA was used
WAS1VAP	Char	1	SYESNO.	DW2.MFUP C4: Was this 1st PVA ever used
VAYR_FU	Char	2		DW2.MFUP C4: Year this 1st PVA was used
AFAIL_F2	Char	1	SYNUFMT.	DW2.MFUP C5: 1PVA fail pstdial, afteruse
FAILDAY	Char	2		DW2.MFUP C5: 1PVA Failed after use, Day
FAILMTH	Char	2		DW2.MFUP C5: 1PVA Failed after use, Mth
FAILYR	Char	2		DW2.MFUP C5: 1PVA Failed after use, Yr
LAST_DAY	Char	2		DW2.MFUP C5: 1PVA Last known Day of Use
LAST_MTH	Char	2		DW2.MFUP C5: 1PVA Last known Month Use
LAST_YR	Char	2		DW2.MFUP C5: 1PVA Last known Year of Use
FAIL_FDT	Num	8	DATE9.	DW2.MFUP C5: Date 1st Perm VA Failed
LAST_FDT	Num	8	DATE9.	DW2.MFUP C5: Last Dt 1st PermVa used
REV1_DAY	Char	2		DW2.MFUP C6: 1st revision to 1PVA, Day
REV1_MTH	Char	2		DW2.MFUP C6: 1st revision to 1PVA, Month
REV1_TYP	Char	1	SFU REVTY.	DW2.MFUP C6: 1st revision to 1PVA, Type
REV1_YR	Char	2		DW2.MFUP C6: 1st revision to 1PVA, Year
REV2_DAY	Char	2		DW2.MFUP C6: 2nd revision to 1PVA, Day
REV2_MTH	Char	2		DW2.MFUP C6: 2nd revision to 1PVA, Month
REV2_TYP	Char	1	SFU REVTY.	DW2.MFUP C6: 2nd revision to 1PVA, Type
REV2_YR	Char	2		DW2.MFUP C6: 2nd revision to 1PVA, year
VA_REVIS	Char	1	SYNUFMT.	DW2.MFUP C6: Any revisions to 1st VAPerm

DMMSWAV2: DMMS Wave 2 Patients (continued)

Variable	Type	Length	Format	Comment
REV1_FDT	Num	8	DATE9.	DW2.MFUP C6: Dt 1st revision to 1PVA
REV2_FDT	Num	8	DATE9.	DW2.MFUP C6: Dt 2nd revision to 2PVA
SIGN_FDT	Num	8	DATE9.	DW2.MFUP: Date of Signature
SST_FDT	Num	8	DATE9.	DW2.MFUP: Study Start Date
DATE_FDT	Num	8	DATE9.	DW2.MFUP: Todays Date
Dialysis patient Questionnaire (Follow-up)				
SIGDAY2	Char	2		DW2.PFUP : Day of signature
SIGMTH2	Char	2		DW2.PFUP : Month of signature
EXP_PAT	Char	1	YESNO.	DW2.PFUP : Patient Expired
SPANQ2	Char	1	YESNO.	DW2.PFUP : Questionnaire in Spanish
SIGYR2	Char	2		DW2.PFUP : Year of signature
SIGNED	Char	1	YESNO.	DW2.PFUP :Is consent form signed?
HELGEN2	Char	1	SGOOD5A.	DW2.PFUP A1: General Health
WALKSEV2	Char	1	SLIMIT3A.	DW2.PFUP A10: Walking several blocks
WALKBLK2	Char	1	SLIMIT3A.	DW2.PFUP A11: Walking 1 block
BATHING2	Char	1	SLIMIT3A.	DW2.PFUP A12: Bathing or dressing self
REDTIM2	Char	1	YESNO.	DW2.PFUP A13: PH: Reduced time on work
ACCLES2	Char	1	YESNO.	DW2.PFUP A14: PH: Accomplish less liked
LIMWRK2	Char	1	YESNO.	DW2.PFUP A15: PH: Limited in kind of wrk
DIFFPER2	Char	1	YESNO.	DW2.PFUP A16: PH: Difficulty perform wrk
REDWRK2	Char	1	YESNO.	DW2.PFUP A17: EP: Reduced time on wrk
ACMPLS2	Char	1	YESNO.	DW2.PFUP A18: EP: Accomplish less liked
WRKCAR2	Char	1	YESNO.	DW2.PFUP A19: EP: Didnt work as carefull
HELPRE2	Char	1	SCOMPfmt.	DW2.PFUP A2: Health compared to pre yr
SOCINT2	Char	1	SEXTEN5A.	DW2.PFUP A20: Amt. of interf. w/ social
BODPAIN2	Char	1	SPAIN6A.	DW2.PFUP A21: Amount of Bodily Pain
PAININT2	Char	1	SEXTEN5A.	DW2.PFUP A22: Amt of pain interf. w/work
PEP2	Char	1	STIME6A.	DW2.PFUP A23: Full of pep
NERVPER2	Char	1	STIME6A.	DW2.PFUP A24: Nervous Person
DOWNDMP2	Char	1	STIME6A.	DW2.PFUP A25: Down in Dumps
CALM2	Char	1	STIME6A.	DW2.PFUP A26: Calm & Peaceful
ENERGY2	Char	1	STIME6A.	DW2.PFUP A27: Lots of Energy
DOWNBLU2	Char	1	STIME6A.	DW2.PFUP A28: Downhearted & Blue
WORNOUT2	Char	1	STIME6A.	DW2.PFUP A29: Worn Out
VIGACT2	Char	1	SLIMIT3A.	DW2.PFUP A3: Vigorous activities
HAPPYPR2	Char	1	STIME6A.	DW2.PFUP A30: Happy Person
TIRE2	Char	1	STIME6A.	DW2.PFUP A31: Fell Tired
INTSOC2	Char	1	STIME5A.	DW2.PFUP A32: PH/EP interf. w/social act
SICK2	Char	1	STRUE5A.	DW2.PFUP A33: Get sick easier than other
HLTHEXP2	Char	1	STRUE5A.	DW2.PFUP A34: Heathy as anybody
HLTWRS2	Char	1	STRUE5A.	DW2.PFUP A35: Expect health to worsen
EXLHLTH2	Char	1	STRUE5A.	DW2.PFUP A36: Health is excellent
INTLIFE2	Char	1	STRUE5A.	DW2.PFUP A37: Kidney Dis interfer w/life
TIME2	Char	1	STRUE5A.	DW2.PFUP A38: Too much time w/Kidney Dis
FRUST2	Char	1	STRUE5A.	DW2.PFUP A39: Frustrated w/ Kidney Dis
MODACT2	Char	1	SLIMIT3A.	DW2.PFUP A4: Moderate activities
BURDEN2	Char	1	STRUE5A.	DW2.PFUP A40: Burden of Family
ISOLATE2	Char	1	STIME6A.	DW2.PFUP A41: Isolate self from others
RCTSLW2	Char	1	STIME6A.	DW2.PFUP A42: React slowly to things
IRRIT2	Char	1	STIME6A.	DW2.PFUP A43: Act irritable
DIFFCON2	Char	1	STIME6A.	DW2.PFUP A44: Difficult to think/conctr
GETALNG2	Char	1	STIME6A.	DW2.PFUP A45: Get along well w/ others
CONFUSE2	Char	1	STIME6A.	DW2.PFUP A46: Become Confused
MUSSOR2	Char	1	SEXTEN5B.	DW2.PFUP A47: Muscle Soreness
CHESTPN2	Char	1	SEXTEN5B.	DW2.PFUP A48: Chest Pain
CRAMPS2	Char	1	SEXTEN5B.	DW2.PFUP A49: Cramps
LIFT2	Char	1	SLIMIT3A.	DW2.PFUP A5: Lift or carry groceries
ITCHSKN2	Char	1	SEXTEN5B.	DW2.PFUP A50: Itchy Skin
DRYSKN2	Char	1	SEXTEN5B.	DW2.PFUP A51: Dry Skin
BREATH2	Char	1	SEXTEN5B.	DW2.PFUP A52: Shortness of Breath
FAINT2	Char	1	SEXTEN5B.	DW2.PFUP A53: Faintness/Dizziness
APPET2	Char	1	SEXTEN5B.	DW2.PFUP A54: Lack of appetite
DRAIN2	Char	1	SEXTEN5B.	DW2.PFUP A55: Washed out or Drained
NUMB2	Char	1	SEXTEN5B.	DW2.PFUP A56: Numbness in hands or feet

DMMSWAV2: DMMS Wave 2 Patients (continued)

Variable	Type	Length	Format	Comment
NAUSEA2	Char	1	SEXTEN5B.	DW2.PFUP A57: Nausea or Upset Stomache
ACSPROB2	Char	1	SEXTEN5B.	DW2.PFUP A58: Problems, access or cath.
FldrST2	Char	1	SEXTEN5B.	DW2.PFUP A59: Fluid Restrictions
CLIMBMT2	Char	1	SLIMIT3A.	DW2.PFUP A6: Climbing Flights of stairs
DITRST2	Char	1	SEXTEN5B.	DW2.PFUP A60: Dietary Restrictions
WRKABL2	Char	1	SEXTEN5B.	DW2.PFUP A61: Ability to work in house
TRVABL2	Char	1	SEXTEN5B.	DW2.PFUP A62: Ability to travel
DEPEND2	Char	1	SEXTEN5B.	DW2.PFUP A63: Dependent on Dr or Staff
STRESS2	Char	1	SEXTEN5B.	DW2.PFUP A64: Stress by Kidney Disease
SEXLF2	Char	1	SEXTEN5B.	DW2.PFUP A65: Sex Life
ENJSEX2	Char	1	SPROBLEM.	DW2.PFUP A66: Inability to enjoy Sex
AROUSAB2	Char	1	SPROBLEM.	DW2.PFUP A67: Difficult,sexually aroused
REST2	Char	1	SYESNO.	DW2.PFUP A68: Lie down more often, rest
NAP2	Char	1	SYESNO.	DW2.PFUP A69: Sleep or Nap more, Day
CLIMBON2	Char	1	SLIMIT3A.	DW2.PFUP A7: Climbing 1flight of stairs
SLEEPLS2	Char	1	SYESNO.	DW2.PFUP A70: Sleep less at Night
SLEEPQT2	Char	2	SQUAL10A.	DW2.PFUP A71: Quality of sleep, last mth
TOGETH2	Char	1	SGOOD5B.	DW2.PFUP A72: Togetherness, friends&fam.
SUPPORT2	Char	1	SGOOD5B.	DW2.PFUP A73: Support from friend&fam.
WRKPT2	Char	1	SYESNO.	DW2.PFUP A74a: Able to work part-time
WRKFT2	Char	1	SYESNO.	DW2.PFUP A74b: Able to work full-time
EMPLST2	Char	1	SWORK8A.	DW2.PFUP A75: Employment status
FRIENDY2	Char	1	SGOOD7A.	DW2.PFUP A76: Friendliness of staff
ENCOURG2	Char	1	STRUE5B.	DW2.PFUP A77: Staff, encour. normal life
COUNSLD2	Char	1	STRUE5B.	DW2.PFUP A78: Staff, counsel full rehab
BEND2	Char	1	SLIMIT3A.	DW2.PFUP A8: Bending,kneeling,stooping
WALKMLT2	Char	1	SLIMIT3A.	DW2.PFUP A9: Walking, >1 Mile
DIETVST2	Char	1	SONCE3A.	DW2.PFUP B1: Pst ESRD, visit dietitian
PHYSVST2	Char	1		DW2.PFUP B2: Visits or talk w/dial. phys
URINE2	Char	1		DW2.PFUP B3: How much urine in 24 hours
HEMO2	Char	1		DW2.PFUP C: On Hemodialysis
PDIAL2	Char	1		DW2.PFUP C: On Peritoneal Dialysis
TRANDIS2	Char	1	SYESNON.	DW2.PFUP C1: Transplant option discussed
TRANEVL2	Char	1	SYESNON.	DW2.PFUP C2: Evaluated for a transplant
WAITLST2	Char	1	SYESNON.	DW2.PFUP C3: On a transplant waitlist
MISSEXG2	Char	1	SMISSEDX.	DW2.PFUP C4: # CAPD missed exchanges
MISSTR2	Char	1	SCYCLER.	DW2.PFUP C5: # Cycler missed treatment
SHRTRMT2	Char	1	SCYCLER.	DW2.PFUP C6: # Cycler shortened trts
AGE_GE60	Char	1		DW2.PFUP D: Age Greater than or =to60
AGE_LT60	Char	1		DW2.PFUP D: Age less than 60
WORKING2	Char	1		DW2.PFUP D1: Working Status
WAGERT2	Num	8		DW2.PFUP D2: Hourly Wage Rate
WAGEST2	Num	8		DW2.PFUP D3: Est. Hourly Wage Rate
EXFREQ2	Char	1	SEXER.	DW2.PFUP E1: Frequency of Exercise
QUALCAR2	Char	1	SGOOD5A.	DW2.PFUP E2: Taking care of own Health
NWTRTDM2	Char	1	SNOYES.	DW2.PFUP E3: S.Work: Dial too demanding
NWNOFLX2	Char	1	SNOYES.	DW2.PFUP E3: S.Work: Dial. Not Flexible
NWOTHDT2	Char	1	SNOYES.	DW2.PFUP E3: S.Work: Needed for other
NWNOJB2	Char	1	SNOYES.	DW2.PFUP E3: S.Work: No job available
NWNOND2	Char	1	SNOYES.	DW2.PFUP E3: S.Work: No Need/Want to wrk
NWLSBNT2	Char	1	SNOYES.	DW2.PFUP E3: S.Work: Would lose Benefits
NWRTRD2	Char	1	SNOYES.	DW2.PFUP E3: Stopped Work: I am retired
NWTRD2	Char	1	SNOYES.	DW2.PFUP E3: Stopped Work: Job too tire
NWTOOSK2	Char	1	SNOYES.	DW2.PFUP E3: Stopped Work: Too sick
DESWRK2	Char	1	SWANTWRK.	DW2.PFUP E4: Like to return to work
SCHDINT2	Char	1	SEXTEN5C.	DW2.PFUP E5a: D.Sched not interfer work
SCHDCHG2	Char	1	SEXTEN5C.	DW2.PFUP E5b: Dial sched changed, work
SCHDNOT2	Char	1	SEXTEN5C.	DW2.PFUP E5c: No Dial Shift to allow wrk
ASSTGVN2	Char	1	SYESNO.	DW2.PFUP E6: Assistance given w/ form
WHOGAVE2	Char	1	SWHOHELP.	DW2.PFUP E7: Who Helped Complete Form
HDKTV	Num	8	8.2	Kt/V at SSD - Daugirdas 2 Formula
FROMMED	Num	8		Medical Questionnaire present
FROMPAT	Num	8		Patient/QOL Questionnaire present
PROVUSRD	Num	8	7.	USRDS assigned provider ID
S_SEX	Char	1	SSEXFMT.	

DMMSWV34: DMMS Wave 3 and 4 Patients

Each wave includes a data collection instrument for collecting core data allowing collection of a consistent set of fundamental data for research questions that require a large sample size. Waves 3 and 4 are historical prospective studies in which data were collected for patients receiving in-center hemodialysis on December 31, 1993, and each planned to include 6,000 patients.

Variable	Type	Length	Format	Comment
Clinical Questionnaire Form				
USRDS_ID	Num	8	BEST32.	USRDS patient ID
DMMS_ID	Num	8		DMMS Patient ID
DMMSWAVE	Num	8	BEST32.	DMMS study sampling wave
FSTEVE1	Char	1		DW34.M : 1st event in Modality after SSD
CORRDOB	Char	2		DW34.M : Correct day of birth if necess.
COR_MDAY	Char	2		DW34.M : Correct Modality Day, if necess
COR_MMTH	Char	2		DW34.M : Correct Modality Month, if nec.
COR_M_YR	Char	2		DW34.M : Correct Modality Yr, If necess
CORRMOB	Char	2		DW34.M : Correct mth of birth if necess.
CORRYOB	Char	2		DW34.M : Correct yr of birth if necess.
CORRDOB	Num	8	DATE9.	DW34.M : Corrected DOB if neccessary
FST_DAY1	Char	2		DW34.M : Day 1st event in Mod. ,pst SSD
DTH_DATE	Num	8	DATE9.	DW34.M : Death date 1 post ssd(12/31/93)
DTH_DT2	Num	8	DATE9.	DW34.M : Death date 2 post ssd(12/31/93)
DTH1_SSD	Char	1	SYNUFMT.	DW34.M : Die post SSD?
DMMS_SSD	Num	8	DATE9.	DW34.M : DMMS Study start date
FST_DATE	Num	8		DW34.M : First event date 1
FST_DT2	Num	8		DW34.M : First event date 2
DOBCORR	Char	1		DW34.M : Is DOBirth correct?
SEXCORR	Char	1		DW34.M : Is sex correct?
SSNCORR	Char	1		DW34.M : Is SSN correct?
FST_MTH1	Char	2		DW34.M : Mth 1st event in Mod. ,pst SSD
NETWORK	Char	2	SNETFMTN.	DW34.M : Network
DTH_DAY1	Char	2		DW34.M : Pst SSD death, Day
DTH_MTH1	Char	2		DW34.M : Pst SSD death, Month
DTH_YR1	Char	2		DW34.M : Pst SSD death, Year
DATE_DAY	Char	2		DW34.M : Todays Day
DATE_MTH	Char	2		DW34.M : Todays Month
DATE_YR	Char	2		DW34.M : Todays Year
FST_YR1	Char	2		DW34.M : Yr 1st event in Mod. ,pst SSD
COMP_DT	Num	8	DATE9.	DW34.M.A2 : Date abstract completed
COMPDAY	Char	2		DW34.M.A2 : Day abstract completed
COMPMTM	Char	2		DW34.M.A2 : Month abstract completed
COMPYR	Char	2		DW34.M.A2 : Year abstract completed
ETHNIC	Char	1	SETHFMT.	DW34.M.A3 : Ethnicity (Hispanic or not)
RACEOTH	Char	15		DW34.M.A4 : Other Race
S_RACE	Char	1	SRACEDMS.	DW34.M.A4 : Race
S_ZIP	Char	5		DW34.M.A5 : Zipcode
FSTD_DT	Num	8	DATE9.	DW34.M.A6 : Date of 1st chron maint dial
FDIALDAY	Char	2		DW34.M.A6 : day of fst chron maint dial
FDIALMTH	Char	2		DW34.M.A6 : mth of fst chron maint dial
FDIALYR	Char	2		DW34.M.A6 : yr of fst chron maint dial
BLUEX	Char	1	SINSUR.	DW34.M.B 1: Blue Cross Dec93
PRIV_INS	Char	1		SINSUR. DW34.M.B 2: Private ins. Dec93
HMORG	Char	1	SINSUR.	DW34.M.B 3: HMO Dec93
MCAREAB	Char	1		SINSUR. DW34.M.B 4: Medicare Pt.AB Dec93
MCAREA	Char	1	SINSUR.	DW34.M.B 5: Medicare Pt.A Dec93
MCAREB	Char	1	SINSUR.	DW34.M.B 6: Medicare Pt.B Dec93
CAID	Char	1	SINSUR.	DW34.M.B 7: Medicaid Dec93
VETS_ADM	Char	1		SINSUR. DW34.M.B 8: VA coverage Dec93
MEDPEND	Char	1		SINSUR. DW34.M.B 9: Medicare pending Dec93
SELPAY	Char	1	SINSUR.	DW34.M.B10 : Self Pay (ins.) Dec93
UNINS	Char	1	SINSUR.	DW34.M.B11 : No Insurance Dec93
OTHERINS	Char	35		SINSUR. DW34.M.B12 : Other insurance Dec93
OTH_PC	Char	35		DW34.M.C 1: P. cause ESRD other, txt
PC_DIS	Char	1	SPDISD3W.	DW34.M.C 1: Primary cause ESRD
SMOKING	Char	1	SSMOKE.	DW34.M.C 2: Smoking status
CHD_CAD	Char	1	SSUSPCT.	DW34.M.C 3: Prior Dx of CHD/CAD
ANGINA	Char	1	SSUSPCT.	DW34.M.C 4: Angina
MI	Char	1	SSUSPCT.	DW34.M.C 5: MI

DMMSWAV34: DMMS Wave 3& 4 Patients (continued)

Variable	Type	Length	Format	Comment
CABG	Char	1	\$\$SUSPCT.	DW34.M.C 6: Bypass surgery
ANGIOPLA	Char	1	\$\$SUSPCT.	DW34.M.C 7: Coronary angioplasty
ANGIOGRA	Char	1	\$\$SUSPCT.	DW34.M.C 8: Coronary angiography
AN_GRABN	Char	1	\$\$SUSPCT.	DW34.M.C 9: Coronary angio. abnormal
CARDARR	Char	1	\$\$SUSPCT.	DW34.M.C10 : Cardiac arrest
CEREBROV	Char	1	\$\$SUSPCT.	DW34.M.C11: Cerebrovascular Accident
TIA	Char	1	\$\$SUSPCT.	DW34.M.C12 : Transient Ischemic attacks
PVD	Char	1	\$\$SUSPCT.	DW34.M.C13 : Peripheral Vascular Disease
AMPUTATA	Char	1	\$\$SUSPCT.	DW34.M.C14 : Amputation due to PVD
LIMBAMP	Char	1	\$\$SUSPCT.	DW34.M.C15 : Limb amputation (other)
ABS_PULS	Char	1	\$\$SUSPCT.	DW34.M.C16 : Absent foot pulses
CLAUDIC	Char	1	\$\$SUSPCT.	DW34.M.C17 : Claudication
CONG_H	Char	1	\$\$SUSPCT.	DW34.M.C18 : Congestive Heart failure
PULMED	Char	1	\$\$SUSPCT.	DW34.M.C19 : Pulmonary edema
PERICARD	Char	1	\$\$SUSPCT.	DW34.M.C20 : Pericarditis
DX_DIAB	Char	1	\$\$SUSPCT.	DW34.M.C21 : Diabetes at Dec93
INSULIN	Char	1	\$NEVRFMT.	DW34.M.C22 : Insulin therapy
DPILLS	Char	1	\$NEVRFMT.	DW34.M.C23 : Diabetes Pills
LUNGDIS	Char	1	\$\$SUSPCT.	DW34.M.C24 : History of Lung Disease
NEOPLASM	Char	1	\$\$SUSPCT.	DW34.M.C25 : Neoplasms (other than skin)
NEO_OTH	Char	25		DW34.M.C26 : Neoplasm primary / other
NEO_TYPE	Char	2		DW34.M.C26 : Neoplasm primary site/type
NEO_OTH2	Char	25		DW34.M.C26 : Neoplasm second / other
NEO_TYP2	Char	2		DW34.M.C26 : Neoplasm second site/type
NEO_YEAR	Char	2		DW34.M.C27 : Year of first neoplasm Dx
HIV	Char	1	SHIVFMT.	DW34.M.C28 : HIV Status
AIDS	Char	1		DW34.M.C29 : Diagnosed w/ AIDS
BILAMP	Char	1		DW34.M.D 1: Bilateral amputee
HT_CM	Num	8		DW34.M.D 1: Height - cm
HT_FT	Num	8		DW34.M.D 1: Height - ft
HT_IN	Num	8		DW34.M.D 1: Height - in
HT_RANGE	Char	1		DW34.M.D 1: Ht val outside range
AFT_WTKG	Num	8		DW34.M.D 2: Dry weight-kilograms
AFT_WTLB	Num	8		DW34.M.D 2: Dry weight-pounds
UNDNOUR	Char	2	\$\$SUSPCT.	DW34.M.D 3: Undernourished
HTIMEDAY	Char	1		DW34.M.D 4: Time of day HD trt Dec93
PRE_DBP	Num	8		DW34.M.D 5: DBP at SSD/predial
PRE_DBP2	Num	8		DW34.M.D 5: DBP at SSD/predial 2nd
PRE_DBP3	Num	8		DW34.M.D 5: DBP at SSD/predial 3rd
PRE_SBP	Num	8		DW34.M.D 5: SBP at SSD/predial
PRE_SBP2	Num	8		DW34.M.D 5: SBP at SSD/predial 2nd
PRE_SBP3	Num	8		DW34.M.D 5: SBP at SSD/predial 3rd
PREWT_1	Num	8		DW34.M.D 5: Weight at SSD/predial
PREWT_2	Num	8		DW34.M.D 5: Weight at SSD/predial 2nd
PREWT_3	Num	8		DW34.M.D 5: Weight at SSD/predial 3rd
PRW_KGLB	Char	1		DW34.M.D 5: Wgt predial kg or lb
PST_DBP	Num	8		DW34.M.D 6: DBP at SSD/postdial
PST_DBP2	Num	8		DW34.M.D 6: DBP at SSD/postdial 2nd
PST_DBP3	Num	8		DW34.M.D 6: DBP at SSD/postdial 3rd
PST_SBP	Num	8		DW34.M.D 6: SBP at SSD/postdial
PST_SBP2	Num	8		DW34.M.D 6: SBP at SSD/postdial 2nd
PST_SBP3	Num	8		DW34.M.D 6: SBP at SSD/postdial 3rd
PSTWT_1	Num	8		DW34.M.D 6: weight at SSD/postdial
PSTWT_2	Num	8		DW34.M.D 6: weight at SSD/postdial 2nd
PSTWT_3	Num	8		DW34.M.D 6: weight at SSD/postdial 3rd
PST_KGLB	Char	1		DW34.M.D 6: Wgt postdial kg or lb
DIALYSAT	Char	1	\$DISATE.	DW34.M.D 7: Dialysate
HEMO_TIM	Num	8		DW34.M.D 8: Prescribed trt time MIN
SESSIONS	Num	8		DW34.M.D 9: Hemo no. sessions / week
HTM_RANG	Char	1		DW34.M.D 9: Trt time outside range?
BFR	Num	8		DW34.M.D10 : Blood flow rate
DFR	Num	8		DW34.M.D11 : Dialysate flow rate
DIALMAKE	Char	25		DW34.M.D14 : Dialyzer make
DIALMODL	Char	25		DW34.M.D14 : Dialyzer model

DMMSWAV34: DMMS Wave 3& 4 Patients (continued)

Variable	Type	Length	Format	Comment
DIALYZER	Num	8		DW34.M.D14 : Dialyzer type
WAVE2_CD	Char	4		DW34.M.D14 : Dialyzer type
VA_OTHER	Char	35		DW34.M.D15 : Other type of VA Dec93
ACCESS	Char	1	SVASTYPE.	DW34.M.D15 : Vascular access,use Dec93
SURGDAY	Char	2		DW34.M.D16 : day of Placement for VA
SURGMTH	Char	2		DW34.M.D16 : mth of Placement for VA
SURGYR	Char	2		DW34.M.D16 : yr of Placement for VA
SKIPDIAL	Num	8		DW34.M.D17 : Number of treats skipped
SHRTDIAL	Num	8		DW34.M.D18 : Treats shortnd by gt 10 min
PRIOR_TX	Char	1	SYESNO.	DW34.M.D19 : Renal Tx before Dec93 ?
PRIOR_BN	Char	1	SYESNO.	DW34.M.D20 : Bilateral neph. pre Dec93 ?
IND_EAT	Char	1	SYESNO.	DW34.M.E 1: Able to eat independently?
IND_WALK	Char	1	SYESNO.	DW34.M.E 2: Able to walk w/o assistance?
AST_WALK	Char	1	SYESNO.	DW34.M.E 3: Walk with assistance
WHEELCHR	Char	1	SYESNO.	DW34.M.E 4: Requires wheelchair
IND_XFER	Char	1	SYESNO.	DW34.M.E 5: Independent transferring
MAR_STAT	Char	1	SMARSTAT.	DW34.M.E 6: Marital status
ALONE	Char	1	SALONE.	DW34.M.E 7: Living alone
EDUCAT	Char	1	SEDLEV.	DW34.M.E 8: Education
OCCUPATN	Char	1	SEMPLOY.	DW34.M.E 9: Occupation level before ESRD
OCC_OTHR	Char	25		DW34.M.E 9: Occupation pre ESRD - other
EMP_OTH	Char	25		DW34.M.E10 : Employment Dec93, other
EMP_D93	Char	2	SEMPLOY.	DW34.M.E10 : Employment level at Dec 93
LOOKEMP	Char	1	SYESNO.	DW34.M.E11 : Looking for Employment
XRAY	Char	1		DW34.M.F 1: Cardiomegaly by x-ray
EKGR	Char	1		DW34.M.F 2: Left ventr hyper by EKG
ECHOCRD	Char	1		DW34.M.F 3: Left ventr hyper by echo.
SER_CAL	Num	8		DW34.M.F 4: Serum calcium predial
PHOSPH	Num	8		DW34.M.F 5: Serum phosphorous
SER_BIC	Num	8		DW34.M.F 6: Serum bicarbonate
CREAT1	Num	8		DW34.M.F 7: Serum creatine, predial
CREAT2	Num	8		DW34.M.F 8: Incid93, s.creat preFstDial
WBC_TOT	Num	8		DW34.M.F 9: White blood count Dec93
PMN	Num	8		DW34.M.F10 : neutrophil or PMN Dec93
LYMPHO	Num	8		DW34.M.F11 : Lymphocyte Dec93
HEMATO	Num	8		DW34.M.F12 : Hematocrit
HEMT_RNG	Char	1		DW34.M.F12 : Hematocrit out of range
HEMOGLOB	Num	8		DW34.M.F13 : Hemoglobin
TRANS	Char	1	SYESNO.	DW34.M.F14 : Receive Transfusion Dec93
NUMTRFS	Char	1		DW34.M.F15 : # of transfusions
EPODAY	Char	2		DW34.M.F16 : Latest Day in Dec93 epo adm
EPOMTH	Char	2		DW34.M.F16 : Latest Mth in Dec93 epo adm
EPOYR	Char	2		DW34.M.F16 : Latest Yr in Dec93 epo adm
EPO	Char	1	SYESNO.	DW34.M.F16 : Taking EPO Dec93
EPO_DT	Num	8	DATE9.	DW34.M.F16 Latest date in Dec93 EPO admi
EPO_BF60	Char	1	SYESNO.	DW34.M.F17 : Taking EPO 60day prior?
EPOUPREA	Num	8		DW34.M.F18 : Units of EPO / admin prescr
EPOUNITA	Num	8		DW34.M.F18 : Units of EPO / admin, del
EPOUDELW	Num	8		DW34.M.F18 : Units of EPO / week, del
EPOUPREW	Num	8		DW34.M.F18 : Units of EPO / week, prescr
EPOADWK	Num	8		DW34.M.F19 : # adms EPO / week,del Dec93
EPOAPREW	Num	8		DW34.M.F19 : # adms EPO /week,pres Dec93
EPOROUTE	Char	1		DW34.M.F19 : Route of EPO administration
PSTBUN3	Num	8		DW34.M.F20 : 1st BUN postdialysis Sept
PREBUN3	Num	8		DW34.M.F20 : 1st BUN predialysis Sept
SERALB3	Num	8		DW34.M.F20 : 1st Serum Albumin pred, Sep
PSTBUN4	Num	8		DW34.M.F20 : 2nd BUN postdialysis Oct
PREBUN4	Num	8		DW34.M.F20 : 2nd BUN predialysis Oct
SERALB4	Num	8		DW34.M.F20 : 2nd Serum Albumin pred, Oct
PSTBUN5	Num	8		DW34.M.F20 : 3rd BUN postdialysis Nov
PREBUN5	Num	8		DW34.M.F20 : 3rd BUN predialysis Nov
SERALB5	Num	8		DW34.M.F20 : 3rd Serum Albumin pred, Nov
PSTBUN6	Num	8		DW34.M.F20 : 4th BUN postdialysis Dec
PREBUN6	Num	8		DW34.M.F20 : 4th BUN predialysis Dec

DMMSWAV34: DMMS Wave 3 & 4 Patients (continued)

Variable	Type	Length	Format	Comment
SERALB6	Num	8		DW34.M.F20 : 4th Serum Albumin pred, Dec
BUNDAY1	Char	2		DW34.M.F20: Day of BUN 1, Sept
BUNDAY2	Char	2		DW34.M.F20: Day of BUN 2, Oct
BUNDAY3	Char	2		DW34.M.F20: Day of BUN 3, Nov
BUNDAY4	Char	2		DW34.M.F20: Day of BUN 4, Dec
PSBN_RNG	Char	1		DW34.M.F20: PostBun out of range?
PRBN_RNG	Char	1		DW34.M.F20: PreBun out of range?
PSTWGT3	Num	8		DW34.M.F21 : 1# WGT postdialysis, Sept
PSTWGT4	Num	8		DW34.M.F21 : 2# WGT postdialysis, Oct
PSTWGT5	Num	8		DW34.M.F21 : 3# WGT postdialysis, Nov
PSTWGT6	Num	8		DW34.M.F21 : 4# WGT postdialysis, Dec
WGT_RNG	Char	1		DW34.M.F21 : Is Weight out of Range?
UNITLBKG	Char	1		DW34.M.F21 : Pre/Pst Weight in Lbs/ Kgs
PREWGT3	Num	8		DW34.M.F21 : 1st WGT predialysis Sept
PREWGT4	Num	8		DW34.M.F21 : 2nd WGT predialysis Oct
PREWGT5	Num	8		DW34.M.F21 : 3rd WGT predialysis Nov
PREWGT6	Num	8		DW34.M.F21 : 4th WGT predialysis Dec
DURDIA1	Num	8		DW34.M.F23 : 1# Duration of dial, Sept
DURDIA2	Num	8		DW34.M.F23 : 2# Duration of dial, Oct
DURDIA3	Num	8		DW34.M.F23 : 3# Duration of dial, Nov
DURDIA4	Num	8		DW34.M.F23 : 4# Duration of dial, Dec
CHOLEST	Num	8		DW34.M.F24 : Cholesterol
CHOL_HDL	Num	8		DW34.M.F25 : HDL Cholesterol
CHOL_LDL	Num	8		DW34.M.F26 : LDL Cholesterol
TRIGLY	Num	8		DW34.M.F27 : Triglycerides
SER_PTH	Num	8		DW34.M.F28 : Serum intact PTH
SER_ALUM	Num	8		DW34.M.F29 : Serum Aluminum (random)
MED1	Char	20		DW34.M.G1 : Medication #1
MED1DOSE	Char	25		DW34.M.G1 : Medication #1 Dose
MED1FREQ	Char	2		DW34.M.G1 : Medication #1 Frequency
MED10	Char	20		DW34.M.G1 : Medication #10
MD10DOSE	Char	25		DW34.M.G1 : Medication #10 Dose
MD10FREQ	Char	2		DW34.M.G1 : Medication #10 Frequency
MED11	Char	20		DW34.M.G1 : Medication #11
MD11DOSE	Char	25		DW34.M.G1 : Medication #11 Dose
MD11FREQ	Char	2		DW34.M.G1 : Medication #11 Frequency
MED12	Char	20		DW34.M.G1 : Medication #12
MD12DOSE	Char	25		DW34.M.G1 : Medication #12 Dose
MD12FREQ	Char	2		DW34.M.G1 : Medication #12 Frequency
MED13	Char	20		DW34.M.G1 : Medication #13
MD13DOSE	Char	25		DW34.M.G1 : Medication #13 Dose
MD13FREQ	Char	2		DW34.M.G1 : Medication #13 Frequency
MED14	Char	20		DW34.M.G1 : Medication #14
MD14DOSE	Char	25		DW34.M.G1 : Medication #14 Dose
MD14FREQ	Char	2		DW34.M.G1 : Medication #14 Frequency
MED15	Char	20		DW34.M.G1 : Medication #15
MD15DOSE	Char	25		DW34.M.G1 : Medication #15 Dose
MD15FREQ	Char	2		DW34.M.G1 : Medication #15 Frequency
MED16	Char	20		DW34.M.G1 : Medication #16
MD16DOSE	Char	25		DW34.M.G1 : Medication #16 Dose
MD16FREQ	Char	2		DW34.M.G1 : Medication #16 Frequency
MED17	Char	20		DW34.M.G1 : Medication #17
MD17DOSE	Char	25		DW34.M.G1 : Medication #17 Dose
MD17FREQ	Char	2		DW34.M.G1 : Medication #17 Frequency
MED18	Char	20		DW34.M.G1 : Medication #18
MD18DOSE	Char	25		DW34.M.G1 : Medication #18 Dose
MD18FREQ	Char	2		DW34.M.G1 : Medication #18 Frequency
MED19	Char	20		DW34.M.G1 : Medication #19
MD19DOSE	Char	25		DW34.M.G1 : Medication #19 Dose
MD19FREQ	Char	2		DW34.M.G1 : Medication #19 Frequency
MED2	Char	20		DW34.M.G1 : Medication #2
MED2DOSE	Char	25		DW34.M.G1 : Medication #2 Dose
MED2FREQ	Char	2		DW34.M.G1 : Medication #2 Frequency

DMMSWAV34: DMMS Wave 3 & 4 Patients (continued)

Variable	Type	Length	Format	Comment
MED20	Char	20		DW34.M.G1 : Medication #20
MD20DOSE	Char	25		DW34.M.G1 : Medication #20 Dose
MD20FREQ	Char	2		DW34.M.G1 : Medication #20 Frequency
MED3	Char	20		DW34.M.G1 : Medication #3
MED3DOSE	Char	25		DW34.M.G1 : Medication #3 Dose
MED3FREQ	Char	2		DW34.M.G1 : Medication #3 Frequency
MED4	Char	20		DW34.M.G1 : Medication #4
MED4DOSE	Char	25		DW34.M.G1 : Medication #4 Dose
MED4FREQ	Char	2		DW34.M.G1 : Medication #4 Frequency
MED5	Char	20		DW34.M.G1 : Medication #5
MED5DOSE	Char	25		DW34.M.G1 : Medication #5 Dose
MED5FREQ	Char	2		DW34.M.G1 : Medication #5 Frequency
MED6	Char	20		DW34.M.G1 : Medication #6
MED6DOSE	Char	25		DW34.M.G1 : Medication #6 Dose
MED6FREQ	Char	2		DW34.M.G1 : Medication #6 Frequency
MED7	Char	20		DW34.M.G1 : Medication #7
MED7DOSE	Char	25		DW34.M.G1 : Medication #7 Dose
MED7FREQ	Char	2		DW34.M.G1 : Medication #7 Frequency
MED8	Char	20		DW34.M.G1 : Medication #8
MED8DOSE	Char	25		DW34.M.G1 : Medication #8 Dose
MED8FREQ	Char	2		DW34.M.G1 : Medication #8 Frequency
MED9	Char	20		DW34.M.G1 : Medication #9
MED9DOSE	Char	25		DW34.M.G1 : Medication #9 Dose
MED9FREQ	Char	2		DW34.M.G1 : Medication #9 Frequency
VITAMN_D	Char	1		DW34.M.G2 : Injectable Vit.D, Dec93
MEDSWHLD	Char	1		DW34.M.G3 : BloodPress.meds w/held preD?
FSTEVE2	Char	1		DW34.M.H1 : 1st event in Modality pstSSD
FST_DAY2	Char	2		DW34.M.H2 : Day 1st event in Mod. pstSSD
FST_MTH2	Char	2		DW34.M.H2 : Mth 1st event in Mod. pstSSD
FST_YR2	Char	2		DW34.M.H2 : Yr 1st event in Mod. pst SSD
DTH2_SSD	Char	1	SYNUFMT.	DW34.M.H3 : Die post SSD?
DTH_DAY2	Char	2		DW34.M.H3 : Pst SSD death, Day
DTH_MTH2	Char	2		DW34.M.H3 : Pst SSD death, Month
DTH_YR2	Char	2		DW34.M.H3 : Pst SSD death, Year
HDKTV6	Num	8	8.2	Kt/V Dec - Daugirdas 2 formula
HDKTV5	Num	8	8.2	Kt/V Nov - Daugirdas 2 formula
HDKTV4	Num	8	8.2	Kt/V Oct - Daugirdas 2 formula
HDKTV3	Num	8	8.2	Kt/V Sept - Daugirdas 2 formula
NC_BORN	Num	8	DATE9.	NC Birthdate - from Network Census
NC_RACE	Char	1	SRACEFMT.	NC Race - from Network Census
NC_SEX	Char	1	SSEXFMT.	NC Sex - from Network Census
PROVUSRD	Num	8	7.	USRDS assigned provider ID

DMMSFACS1: DMMS Special Studies Facility
Facility Questionnaire for Wave 1 Special Study

Variable	Type	Length	Format	Comment
BLEACH	Char	1	\$YESNO.	DW1.F 6c: Bleach used at abstraction
BLEACH93	Char	1	\$YESNO.	DW1.F 6c: Bleach used 12/31/93
CHARCOAL	Char	1	\$YESNO.	DW1.F 8 : Activ charcoal used for dial
CHARREP	Char	1	\$YESNO.	DW1.F 8 : Activ charcoal used for repro
DEIONIZE	Char	1	\$YESNO.	DW1.F 8 : Deionization used for dial
DEIONREP	Char	1	\$YESNO.	DW1.F 8 : Deionization used for repro
FORMAL93	Char	1	\$YESNO.	DW1.F 6c: Formalin used 12/31/93
FORMALIN	Char	1	\$YESNO.	DW1.F 6c: Formalin used at abstraction
FORMDATE	Num	8	MMDDYY7.	DW1.F 3 : Date form completed
GLUTAR93	Char	1	\$YESNO.	DW1.F 6c: Glutaral used 12/31/93
GLUTARAL	Char	1	\$YESNO.	DW1.F 6c: Glutaral used at abstraction
HDMSHARE	Num	8		DW1.F12 : Common mach share/all hd mach
HEATON	Char	1	\$YESNO.	DW1.F 6c: Heat used at abstraction
HEATON93	Char	1	\$YESNO.	DW1.F 6c: Heat used 12/31/93
HMANMD	Char	1	\$HMANMO.	DW1.F11 : Most Common Hemodialysis machi
KTVURRTP	Char	1		DW1.F 9 : Type of Kt/v or URR
LABALB93	Num	8		DW1.F13 : Lab ser alb low lim norm 93
LABALBLL	Num	8		DW1.F13 : Lab ser alb low lim norm abs
NETWORK	Char	2		DW1.F 1 : Network
PROVUSRD	Num	8		KECC Assigned Facility ID
RENAL93	Char	1	\$YESNO.	DW1.F 6c: Renalin (paracetic) used 1293
RENALIN	Char	1	\$YESNO.	DW1.F 6c: Renalin (paracetic) used abst
REUSEBLT	Char	1	\$YESNO.	DW1.F 6d: Reuse blood tubing 12/31/93
REUSEMAC	Char	1		DW1.F 6b: Reuse machine
REUSET93	Char	1	\$TYPREUS.	DW1.F 6b: Reuse technique 12/31/93
REUSETEC	Char	1	\$TYPREUS.	DW1.F 6b: Reuse technique at abstract
REUSSTOP	Num	8	MONYY.	DW1.F 6a: Date reuse stopped
REUSSTRT	Num	8	MONYY.	DW1.F 6a: Date reuse started
REVOSMOS	Char	1	\$YESNO.	DW1.F 8 : Reverse osmosis used for dial
REVOSREP	Char	1	\$YESNO.	DW1.F 8 : Reverse osmosis used for repr
SOFTENER	Char	1	\$YESNO.	DW1.F 8 : Water softener used for dial
SOFTREP	Char	1	\$YESNO.	DW1.F 8 : Water softener used for repro
TIMEBUN	Char	1		DW1.F10 : Timing of pst dial BUN sample
TOPRESNT	Char	1		DW1.F 6a: Reuse through to present
ULTRFILT	Char	1	\$YESNO.	DW1.F 8 : Ultrafilter used for dial
ULTRREP	Char	1	\$YESNO.	DW1.F 8 : Ultrafilter used for repro
UNITREUS	Char	1	\$YESNO.	DW1.F 6 : Unit Reuse 12/1993
UNIT_ID	Char	4		DW1.F : ITS assigned unit qaire#
UVLIGHT	Char	1	\$YESNO.	DW1.F 8 : U-V light used for dialysate
UVLTREP	Char	1	\$YESNO.	DW1.F 8 : U-V light used for repro
VACCSURV	Char	1		DW1.F14 : Routine vascc acc surveill 93
WATERSRC	Char	1	\$WATRSRC.	DW1.F 7 : Type of water source
YEAR	Num	4		

DMMSFACS2: DMMS Special Studies Facility
Facility Questionnaire for Wave 2 Special Study

Variable	Type	Length	Format	Comment
BLEACH	Char	1	SYESNO.	DW1.F 6c: Bleach used at abstraction
BLEACH93	Char	1	SYESNO.	DW1.F 6c: Bleach used 12/31/93
CHARCOAL	Char	1	SYESNO.	DW1.F 8 : Activ charcoal used for dial
CHARREP	Char	1	SYESNO.	DW1.F 8 : Activ charcoal used for repro
DEIONIZE	Char	1	SYESNO.	DW1.F 8 : Deionization used for dial
DEIONREP	Char	1	SYESNO.	DW1.F 8 : Deionization used for repro
FORMAL93	Char	1	SYESNO.	DW1.F 6c: Formalin used 12/31/93
FORMALIN	Char	1	SYESNO.	DW1.F 6c: Formalin used at abstraction
FORMDATE	Num	8	MMDDYY7.	DW1.F 3 : Date form completed
GLUTAR93	Char	1	SYESNO.	DW1.F 6c: Glutaral used 12/31/93
GLUTARAL	Char	1	SYESNO.	DW1.F 6c: Glutaral used at abstraction
HDMSHARE	Num	8		DW1.F12 : Common mach share/all hd mach
HEATON	Char	1	SYESNO.	DW1.F 6c: Heat used at abstraction
HEATON93	Char	1	SYESNO.	DW1.F 6c: Heat used 12/31/93
HMANMD	Char	1	SHMANMO.	DW1.F11 : Most Common Hemodialysis machi
KTURRTP	Char	1		DW1.F 9 : Type of Kt/v or URR
LABALB93	Num	8		DW1.F13 : Lab ser alb low lim norm 93
LABALBLL	Num	8		DW1.F13 : Lab ser alb low lim norm abs
NETWORK	Char	2		DW1.F 1 : Network
PROVUSRD	Num	8		KECC Assigned Facility ID
RENAL93	Char	1	SYESNO.	DW1.F 6c: Renalin (paracetic) used 1293
RENALIN	Char	1	SYESNO.	DW1.F 6c: Renalin (paracetic) used abst
REUSEBLT	Char	1	SYESNO.	DW1.F 6d: Reuse blood tubing 12/31/93
REUSEMAC	Char	1		DW1.F 6b: Reuse machine
REUSET93	Char	1	\$TYPREUS.	DW1.F 6b: Reuse technique 12/31/93
REUSETEC	Char	1	\$TYPREUS.	DW1.F 6b: Reuse technique at abstract
REUSSTOP	Num	8	MONYY.	DW1.F 6a: Date reuse stopped
REUSSTRT	Num	8	MONYY.	DW1.F 6a: Date reuse started
REVOSMOS	Char	1	SYESNO.	DW1.F 8 : Reverse osmosis used for dial
REVOSREP	Char	1	SYESNO.	DW1.F 8 : Reverse osmosis used for repr
SOFTENER	Char	1	SYESNO.	DW1.F 8 : Water softener used for dial
SOFTREP	Char	1	SYESNO.	DW1.F 8 : Water softener used for repro
TIMEBUN	Char	1		DW1.F10 : Timing of pst dial BUN sample
TOPRESNT	Char	1		DW1.F 6a: Reuse through to present
ULTRFILT	Char	1	SYESNO.	DW1.F 8 : Ultrafilter used for dial
ULTRREP	Char	1	SYESNO.	DW1.F 8 : Ultrafilter used for repro
UNITREUS	Char	1	SYESNO.	DW1.F 6 : Unit Reuse 12/1993
UNIT_ID	Char	4		DW1.F : ITS assigned unit qaire#
UVLIGHT	Char	1	SYESNO.	DW1.F 8 : U-V light used for dialysate
UVLTREP	Char	1	SYESNO.	DW1.F 8 : U-V light used for repro
VACCSURV	Char	1		DW1.F14 : Routine vasc acc surveill 93
WATERSRC	Char	1	\$WATRSRC.	DW1.F 7 : Type of water source
YEAR	Num	4		

DMMSFACS34: DMMS Special Studies Facility
Facility Questionnaire for DMMS Waves 3 & 4 Special Studies

Variable	Type	Length	Format	Comment
BLEACH	Char	1	SYESNO.	DW1.F 6c: Bleach used at abstraction
BLEACH93	Char	1	SYESNO.	DW1.F 6c: Bleach used 12/31/93
CHARCOAL	Char	1	SYESNO.	DW1.F 8 : Activ charcoal used for dial
CHARREP	Char	1	SYESNO.	DW1.F 8 : Activ charcoal used for repro
DEIONIZE	Char	1	SYESNO.	DW1.F 8 : Deionization used for dial
DEIONREP	Char	1	SYESNO.	DW1.F 8 : Deionization used for repro
FORMAL93	Char	1	SYESNO.	DW1.F 6c: Formalin used 12/31/93
FORMALIN	Char	1	SYESNO.	DW1.F 6c: Formalin used at abstraction
FORMDATE	Num	8	MMDDYY7.	DW1.F 3 : Date form completed
GLUTAR93	Char	1	SYESNO.	DW1.F 6c: Glutaral used 12/31/93
GLUTARAL	Char	1	SYESNO.	DW1.F 6c: Glutaral used at abstraction
HDMSHARE	Num	8		DW1.F12 : Common mach share/all hd mach
HEATON	Char	1	SYESNO.	DW1.F 6c: Heat used at abstraction
HEATON93	Char	1	SYESNO.	DW1.F 6c: Heat used 12/31/93
HMANMD	Char	1	SHMANMO.	DW1.F11 : Most Common Hemodialysis machi
KTVURRTP	Char	1		DW1.F 9 : Type of Kt/v or URR
LABALB93	Num	8		DW1.F13 : Lab ser alb low lim norm 93
LABALBLL	Num	8		DW1.F13 : Lab ser alb low lim norm abs
NETWORK	Char	2		DW1.F 1 : Network
PROVUSRD	Num	8		KECC Assigned Facility ID
RENAL93	Char	1	SYESNO.	DW1.F 6c: Renalin (paracetic) used 1293
RENALIN	Char	1	SYESNO.	DW1.F 6c: Renalin (paracetic) used abst
REUSEBLT	Char	1	SYESNO.	DW1.F 6d: Reuse blood tubing 12/31/93
REUSEMAC	Char	1		DW1.F 6b: Reuse machine
REUSET93	Char	1	\$TYPREUS.	DW1.F 6b: Reuse technique 12/31/93
REUSETEC	Char	1	\$TYPREUS.	DW1.F 6b: Reuse technique at abstract
REUSSTOP	Num	8	MONYY.	DW1.F 6a: Date reuse stopped
REUSSTRT	Num	8	MONYY.	DW1.F 6a: Date reuse started
REVOSMOS	Char	1	SYESNO.	DW1.F 8 : Reverse osmosis used for dial
REVOSREP	Char	1	SYESNO.	DW1.F 8 : Reverse osmosis used for repr
SOFTENER	Char	1	SYESNO.	DW1.F 8 : Water softener used for dial
SOFTREP	Char	1	SYESNO.	DW1.F 8 : Water softener used for repro
TIMEBUN	Char	1		DW1.F10 : Timing of pst dial BUN sample
TOPRESNT	Char	1		DW1.F 6a: Reuse through to present
ULTRFILT	Char	1	SYESNO.	DW1.F 8 : Ultrafilter used for dial
ULTRREP	Char	1	SYESNO.	DW1.F 8 : Ultrafilter used for repro
UNITREUS	Char	1	SYESNO.	DW1.F 6 : Unit Reuse 12/1993
UNIT_ID	Char	4		DW1.F : ITS assigned unit qaire#
UVLIGHT	Char	1	SYESNO.	DW1.F 8 : U-V light used for dialysate
UVLTREP	Char	1	SYESNO.	DW1.F 8 : U-V light used for repro
VACCSURV	Char	1		DW1.F14 : Routine vasc acc surveill 93
WATERSRC	Char	1	SWATRSRC.	DW1.F 7 : Type of water source
YEAR	Num	4		

FCOSHOS: Facility Cost Reports for Hospital Facilities

The CMS hospital and independent facility cost reports for the years 1989-1995 and 1989-1993 are available as Standard Analysis Files.

Variable	Type	Length	Format	Comment
PROVUSRD	Num	8	BEST22.	USRDS assigned facility ID
R2	Char	5		Cost Reporting per Beg Date
R3	Char	5		Cost Reporting per End Date
R4	Char	2		Number of mths in Cost Rept per
R5	Char	2		Type of Control (See Table I)
R12	Char	1		Cost Report Status (Table IV)
R15	Char	5		HCRIS Data File Creation Date
R16	Num	8		Physicians for Direct pt Care
R17	Num	8		RNs for Direct pt Care
R18	Num	8		LPNs for Direct pt Care
R19	Num	8		Nurses Aides for Dir pt Care
R20	Num	8		Technicians for Direct pt Care
R21	Num	8		Social Workers for Dir pt Care
R22	Num	8		pts for Direct pt Care
R23	Num	8		No of Machines for Reg Use
R24	Num	8		Number of Standby Machines
R25	Num	8		Ave Dial Times per pt/Week
R26	Num	8		Days per Week Dialysis is Furn
R27	Num	8		Average Time of pt Dialysis
R28	Num	8		Number of pts in Dialysis Pgm
R29	Num	8		Number of Shifts
R30	Num	8		Hours per Shift
R31	Num	8		Number of 1X/Week Tments
R32	Num	8		Number of 2x/Week Tments
R33	Num	8		Number of 3X/Week Tments
R34	Num	8		Number of >3x/Week Tments
R35	Num	8		Total Number of Tments per Week
R36	Num	8		Times Dialz Reused-hollow fiber
R37	Num	8		Times Dialz Reus-parallel Plate
R38	Num	8		Times Dialz Reused (coil)
R39	Num	8		Number of pts in HP
R40	Num	8		Total Physician Costs
R41	Num	8		Physician Costs O/P Hemo
R42	Num	8		Physician Costs O/P PD
R43	Num	8		Total RN Costs
R44	Num	8		RN Costs O/P Hemo
R45	Num	8		RN Costs Assign O/P PD
R46	Num	8		Total LPN Costs
R47	Num	8		LPN Costs for O/P O/P Hemo
R48	Num	8		LPN Costs O/P PD
R49	Num	8		Total Nurses Aide Costs
R50	Num	8		N A Costs O/P Hemo
R51	Num	8		N A Costs O/P PD
R52	Num	8		Total Technician Costs
R53	Num	8		Tech Costs O/P Hemo
R54	Num	8		Tech Costs O/P PD
R55	Num	8		Total Social Worker Costs
R56	Num	8		S W Costs O/P Hemo
R57	Num	8		S W Costs O/P PD
R58	Num	8		Total pt Costs
R59	Num	8		pt Costs O/P Hemo
R60	Num	8		pt Costs O/P PD
R61	Num	8		Total Admin Costs
R62	Num	8		Admin Costs Outrpt Hemo
R63	Num	8		Admin Costs O/P PD
R64	Num	8		Total Managers Costs
R65	Num	8		Managers Costs O/P Hemo
R66	Num	8		Managers Costs O/P PD
R67	Num	8		Total Other empl Costs
R68	Num	8		Other empl Costs O/P Hemo
R69	Num	8		Other empl Costs O/P PD
R70	Num	8		Total Dir Cap Costs
R71	Num	8		Dir Cap Costs O/P Hemo

FCOSHOS: Facility Cost Reports for Hospital Facilities (continued)

Variable	Type	Length	Format	Comment
R72	Num	8		Dir Cap Costs O/P PD
R73	Num	8		Total Sup Costs
R74	Num	8		Sup Costs O/P Hemo
R75	Num	8		Sup Costs O/P PD
R76	Num	8		Total for Purchased Sers
R77	Num	8		Purchased Ser Costs O/P Hemo
R78	Num	8		Purchased Ser Costs O/P PD
R79	Num	8		Total for Other Costs
R80	Num	8		Other Costs O/P Hemo
R81	Num	8		Other Costs O/P PD
R82	Num	8		Total Cap rel Costs B&F
R83	Num	8		Cap rel Costs (B & F) O/P Hemo
R84	Num	8		Cap rel Costs (B & F) O/P PD
R85	Num	8		Total Cap rel Costs Move Eqpt
R86	Num	8		Cap rel Costs (ME) O/P Hemo
R87	Num	8		Cap rel Costs (ME) O/P PD
R88	Num	8		Total for Emp Bene
R89	Num	8		Emp Bene O/P Hemo
R90	Num	8		Emp Bene O/P PD
R91	Num	8		Tot Admin & General
R92	Num	8		A & G O/P Hemo
R93	Num	8		A & G O/P PD
R94	Num	8		Total Maint & Repairs
R95	Num	8		Maint & Repairs O/P Hemo
R96	Num	8		Maint & Repairs O/P PD
R97	Num	8		Total for Nursing Admin
R98	Num	8		Nursing Admin. O/P Hemo
R99	Num	8		Nursing Admin. O/P PD
R100	Num	8		Total for Nursing School
R101	Num	8		Nursing School O/P Hemo
R102	Num	8		Nursing School O/P PD
R103	Num	8		Tot for I & R Teaching Pgm
R104	Num	8		I & R Teaching O/P Hemo
R105	Num	8		I & R Teaching O/P PD
R106	Num	8		Total Central Sers & Sup
R107	Num	8		Ser & Sup O/P Hemo
R108	Num	8		Ser & Sup O/P PD
R109	Num	8		Total Pharmacy
R110	Num	8		Pharmacy O/P Hemo
R111	Num	8		Pharmacy O/P PD
R112	Num	8		Total Other alloc Costs
R113	Num	8		Other alloc Costs O/P Hemo
R114	Num	8		Other alloc Costs O/P PD
R115	Num	8		Total Lab
R116	Num	8		Lab O/P Hemo
R117	Num	8		Lab O/P PD
R118	Num	8		Total Respiratory Therapy
R119	Num	8		Respir Therapy O/P Hemo
R120	Num	8		Respiratory Therapy O/P PD
R121	Num	8		Total malprice 1/89-9/92 ONLY
R122	Num	8		malpr O/P Hemo 1/89-9/92 ONLY
R123	Num	8		malpr O/P PD 1/89-9/92 ONLY
R124	Num	8		Total of all alloc Costs
R125	Num	8		Total alloc Costs O/P Hemo
R126	Num	8		Total alloc Costs O/P PD
R127	Num	8		Phys Costs O/P Hemo Trn
R128	Num	8		Phys Costs O/P PD Trn
R129	Num	8		Phys Costs O/P CAPD Trn
R130	Num	8		Phys Costs O/P CCPD Trn
R131	Num	8		RN Costs O/P Hemo Trn
R132	Num	8		RN Costs O/P PD Trn
R133	Num	8		RN Costs O/P CAPD Trn
R134	Num	8		RN Costs O/P CCPD Trn
R135	Num	8		LPN Costs O/P Hemo Trn

FCOSHOS: Facility Cost Reports for Hospital Facilities (continued)

Variable	Type	Length	Format	Comment
R136	Num	8		LPN Costs O/P PD Trn
R137	Num	8		LPN Costs O/P CAPD Trn
R138	Num	8		LPN Costs O/P CCPD Trn
R139	Num	8		N A Costs O/P Hemo Trn
R140	Num	8		N A Costs O/P PD Trn
R141	Num	8		N A Costs O/P CAPD Trn
R142	Num	8		N A Costs O/P CCPD Trn
R143	Num	8		Tech Costs O/P Hemo Trn
R144	Num	8		Tech Costs O/P PD Trn
R145	Num	8		Tech Costs O/P CAPD Trn
R146	Num	8		Tech Costs O/P CCPD Trn
R147	Num	8		S W Costs O/P Hemo Trn
R148	Num	8		S W Costs O/P PD Trn
R149	Num	8		S W Costs O/P CAPD Trn
R150	Num	8		S W Costs O/P CCPD Trn
R151	Num	8		pt Costs O/P Hemo Trn
R152	Num	8		pt Costs O/P PD Trn
R153	Num	8		pt Costs O/P CAPD Trn
R154	Num	8		pt Costs O/P CCPD Trn
R155	Num	8		Admin Costs O/P Hemo Trn
R156	Num	8		Admin Costs - O/P PD Trn
R157	Num	8		Admin Costs - O/P CAPD Trn
R158	Num	8		Admin Costs - O/P CCPD Trn
R159	Num	8		Managers Costs - O/P H Trn
R160	Num	8		Managers Costs - O/P PD Trn
R161	Num	8		Managers Costs - O/P CAPD Trn
R162	Num	8		Managers Costs - O/P CCPD Trn
R163	Num	8		Other Empl costs - O/P H Trn
R164	Num	8		Other Empl costs O/P PD Trn
R165	Num	8		Other empl Costs O/P CAPD Trn
R166	Num	8		Other empl Costs O/P CCPD Trn
R167	Num	8		Dir Cap Costs O/P Hemo Trn
R168	Num	8		Dir Cap Costs O/P PD Trn
R169	Num	8		Dir Cap Costs O/P CAPD Trn
R170	Num	8		Dir Cap Costs O/P CCPD Trn
R171	Num	8		Sup Costs O/P Hemo Trn
R172	Num	8		Sup Costs O/P PD Trn
R173	Num	8		Sup Costs O/P CAPD Trn
R174	Num	8		Sup Costs O/P CCPD Trn
R175	Num	8		Purch Ser Costs O/P H Trn
R176	Num	8		Purch Ser Costs O/P PD Trn
R177	Num	8		Purch Ser Costs O/P CAPD Trn
R178	Num	8		Purch Ser Costs O/P CCPD Trn
R179	Num	8		Other Costs O/P Hemo Trn
R180	Num	8		Other Costs O/P PD Trn
R181	Num	8		Other Costs O/P CAPD Trn
R182	Num	8		Other Costs O/P CCPD Trn
R183	Num	8		Cap rel Costs (B & F) O/P H Trn
R184	Num	8		Cap rel Costs (B & F) O/P PD Trn
R185	Num	8		Cap rel Costs (B & F) O/P CAPD Trn
R186	Num	8		Cap rel Costs (B & F) O/P CCPD Trn
R187	Num	8		Cap rel Costs (ME) O/P Hemo Trn
R188	Num	8		Cap rel Costs (ME) O/P PD Trn
R189	Num	8		Cap rel Costs (ME) O/P CAPD Trn
R190	Num	8		Cap rel Costs (ME) O/P CCPD Trn
R191	Num	8		Emp Bene 22 O/P Hemo Trn
R192	Num	8		Emp Bene 22 O/P PD Trn
R193	Num	8		Emp Bene 22 O/P CAPD Trn
R194	Num	8		Emp Bene 22 O/P CCPD Trn
R195	Num	8		A & G 24 O/P Hemo Trn
R196	Num	8		A & G 24 O/P PD Trn
R197	Num	8		A & G 24 O/P CAPD Trn
R198	Num	8		A & G 24 O/P CCPD Trn
R199	Num	8		Maint. & Repairs O/P Hemo Trn

FCOSHOS: Facility Cost Reports for Hospital Facilities (continued)

Variable	Type	Length	Format	Comment
R200	Num	8		Maint. & Repairs O/P PD Trn
R201	Num	8		Maint. & Repairs O/P CAPD Trn
R202	Num	8		Maint. & Repairs O/P CCPD Trn
R203	Num	8		Nursing Admin. O/P Hemo Trn
R204	Num	8		Nursing Admin. O/P PD Trn
R205	Num	8		Nursing Admin. O/P CAPD Trn
R206	Num	8		Nursing Admin. O/P CCPD Trn
R207	Num	8		Nursing School O/P Hemo Trn
R208	Num	8		Nursing School O/P PD Trn
R209	Num	8		Nursing School O/P CAPD Trn
R210	Num	8		Nursing School O/P CCPD Trn
R211	Num	8		I & R Teaching O/P Hemo Trn
R212	Num	8		I & R Teaching O/P PD Trn
R213	Num	8		I & R Teaching O/P CAPD Trn
R214	Num	8		I & R Teaching O/P CCPD Trn
R215	Num	8		Ser & Sup O/P Hemo Trn
R216	Num	8		Ser & Sup O/P PD Trn
R217	Num	8		Ser & Sup O/P CAPD Trn
R218	Num	8		Ser & Sup O/P CCPD Trn
R219	Num	8		Pharmacy O/P Hemo
R220	Num	8		Pharmacy O/P Peritoneal
R221	Num	8		Pharmacy O/P CAPD Trn
R222	Num	8		Pharmacy O/P CCPD Trn
R223	Num	8		Other alloc Costs O/P Hemo Trn
R224	Num	8		Other alloc Costs O/P PD Trn
R225	Num	8		Other alloc Costs O/P CAPD Trn
R226	Num	8		Other alloc Costs O/P CCPD Trn
R227	Num	8		Lab O/P Hemo Trn
R228	Num	8		Lab O/P PD Trn
R229	Num	8		Lab O/P CAPD Trn
R230	Num	8		Lab O/P CCPD Trn
R231	Num	8		Resp Therapy O/P Hemo Trn
R232	Num	8		Resp Therapy O/P PD Trn
R233	Num	8		Resp Therapy O/P CAPD Trn
R234	Num	8		Resp Therapy O/P CCPD Trn
R235	Num	8		mal O/P HEMO Trn 1/89-9/92 ONLY
R236	Num	8		mal O/P PD Trn 1/89-9/92 ONLY
R237	Num	8		mal O/P CAPD Trn 1/89-9/92 ONLY
R238	Num	8		mal O/P CCPD Trn 1/89-9/92 ONLY
R239	Num	8		Total alloc Costs O/P Hemo Trn
R240	Num	8		Total alloc Costs O/P PD Trn
R241	Num	8		Total alloc Costs O/P CAPD Trn
R242	Num	8		Total alloc Costs O/P CCPD Trn
R243	Num	8		Physician Costs HP Hemo
R244	Num	8		Physician Costs HP PD
R245	Num	8		RN Costs HP Hemo
R246	Num	8		RN Costs HP PD
R247	Num	8		LPN Costs HP Hemo
R248	Num	8		LPN Costs HP PD
R249	Num	8		N A Costs HP Hemo
R250	Num	8		N A Costs HP PD
R251	Num	8		Tech Costs HP Hemo
R252	Num	8		Tech Costs HP PD
R253	Num	8		S W Costs HP Hemo
R254	Num	8		S W Costs HP PD
R255	Num	8		pt Costs HP Hemo
R256	Num	8		pt Costs HP PD
R257	Num	8		Admin Costs HP Hemo
R258	Num	8		Admin Costs HP PD
R259	Num	8		Managers Costs HP Hemo
R260	Num	8		Managers Costs HP PD
R261	Num	8		Other empl Costs HP Hemo
R262	Num	8		Other empl Costs HP PD
R263	Num	8		Dir Cap Costs HP Hemo

FCOSHOS: Facility Cost Reports for Hospital Facilities (continued)

Variable	Type	Length	Format	Comment
R264	Num	8		Dir Cap Costs HP PD
R265	Num	8		Sup Costs HP Hemo .
R266	Num	8		Sup Costs HP PD
R267	Num	8		Purchased Ser Costs HP Hemo
R268	Num	8		Purchased Ser Costs HP PD
R269	Num	8		Other Costs Assig to HP Hemo
R270	Num	8		Other Costs HP PD
R271	Num	8		Cap rel Costs (B & F) HP Hemo
R272	Num	8		Cap rel Costs (B & F) HP PD
R273	Num	8		Cap rel Costs (ME) HP Hemo
R274	Num	8		Cap rel Costs (ME) HP PD
R275	Num	8		Emp Bene HP Hemo
R276	Num	8		Emp Bene HP PD
R277	Num	8		A & G HP Hemo
R278	Num	8		A & G HP PD
R279	Num	8		Maint. & Repairs HP Hemo
R280	Num	8		Maint. & Repairs HP PD
R281	Num	8		Nursing Admin. HP Hemo
R282	Num	8		Nursing Admin. HP PD
R283	Num	8		Nursing School HP Hemo
R284	Num	8		Nursing School HP PD
R285	Num	8		I & R Teaching HP Hemo
R286	Num	8		I & R Teaching HP PD
R287	Num	8		Ser & Sup HP Hemo
R288	Num	8		Ser & Sup HP PD
R289	Num	8		Pharmacy HP Hemo
R290	Num	8		Pharmacy HP PD
R291	Num	8		Other alloc Costs HP Hemo
R292	Num	8		Other alloc Costs HP PD
R293	Num	8		Lab HP Hemo
R294	Num	8		Lab HP PD
R295	Num	8		Respiratory Therapy HP Hemo
R296	Num	8		Respiratory Therapy HP PD
R297	Num	8		malpr HP HEMO 1/89-9/92 ONLY
R298	Num	8		malpr HP PD 1/89-9/92 ONLY
R299	Num	8		Total alloc Costs HP Hemo
R300	Num	8		Total alloc Costs HP PD
R301	Num	8		Physician Costs HP CAPD
R302	Num	8		Physician Costs HP CCPD
R303	Num	8		RN Costs HP CAPD
R304	Num	8		RN Costs HP CCPD
R305	Num	8		LPN Costs HP CAPD
R306	Num	8		LPN Costs HP CCPD
R307	Num	8		N A Costs HP CAPD
R308	Num	8		N A Costs HP CCPD
R309	Num	8		Tech Costs HP CAPD
R310	Num	8		Tech Costs HP CCPD
R311	Num	8		S W Costs HP CAPD
R312	Num	8		S W Costs HP CCPD
R313	Num	8		pt Costs HP CAPD
R314	Num	8		pt Costs HP CCPD
R315	Num	8		Admin Costs HP CAPD .
R316	Num	8		Admin Costs HP CCPD
R317	Num	8		Managers Costs HP CAPD
R318	Num	8		Managers Costs HP CCPD
R319	Num	8		Other empl Costs HP CAPD
R320	Num	8		Other empl Costs HP CCPD
R321	Num	8		Dir Cap Costs HP CAPD
R322	Num	8		Dir Cap Costs HP CCPD
R323	Num	8		Sup Costs HP CAPD
R324	Num	8		Sup Costs HP CCPD
R325	Num	8		Purchased Ser Costs HP CAPD
R326	Num	8		Purchased Ser Costs HP CCPD
R327	Num	8		Other Costs HP CAPD

FCOSHOS: Facility Cost Reports for Hospital Facilities (continued)

Variable	Type	Length	Format	Comment
R328	Num	8		Other Costs HP CCPD
R329	Num	8		Cap rel Costs (B & F) HP CAPD
R330	Num	8		Cap rel Costs (B & F) HP CCPD
R331	Num	8		Cap rel Costs (ME) HP CAPD
R332	Num	8		Cap rel Costs (ME) HP CCPD
R333	Num	8		Emp Bene HP CAPD
R334	Num	8		Emp Bene HP CCPD
R335	Num	8		A & G HP CAPD
R336	Num	8		A & G HP CCPD
R337	Num	8		Maint. & Repairs HP CAPD
R338	Num	8		Maint. & Repairs HP CCPD
R339	Num	8		Nursing Admin. HP CAPD
R340	Num	8		Nursing Admin. HP CCPD
R341	Num	8		Nursing School HP CAPD
R342	Num	8		Nursing School HP CCPD
R343	Num	8		I & R Teaching HP CAPD
R344	Num	8		I & R Teaching HP CCPD
R345	Num	8		Ser & Sup HP CAPD
R346	Num	8		Ser & Sup HP CCPD
R347	Num	8		
R348	Num	8		Pharmacy HP CCPD
R349	Num	8		Other alloc Costs HP CAPD
R350	Num	8		Other alloc Costs HP CCPD
R351	Num	8		Lab HP CAPD
R352	Num	8		Lab HP CCPD
R353	Num	8		Respiratory Therapy HP CAPD
R354	Num	8		Respiratory Therapy HP CCPD
R355	Num	8		malpr HP CAPD 1/89-9/92 ONLY
R356	Num	8		malpr HP CCPD 1/89-9/92 ONLY
R357	Num	8		Total alloc Costs HP CAPD
R358	Num	8		Total alloc Costs HP CCPD
R359	Num	8		Total RN Hours
R360	Num	8		RN Hours O/P Hemo
R361	Num	8		RN Hours O/P PD
R362	Num	8		Total LPN Hours
R363	Num	8		LPN Hours O/P Hemo
R364	Num	8		LPN Hours O/P PD
R365	Num	8		Total Nurses Aides Hours
R366	Num	8		N A Hours O/P Hemo
R367	Num	8		N A Hours O/P PD
R368	Num	8		Total Technician Hours
R369	Num	8		Tech Hours O/P Hemo
R370	Num	8		Tech Hours O/P PD
R371	Num	8		Total Social Workers Hours
R372	Num	8		S W Hours O/P Hemo
R373	Num	8		S W Hours O/P PD
R374	Num	8		Total pts Hours
R375	Num	8		pt Hours O/P Hemo
R376	Num	8		pt Hours O/P PD
R377	Num	8		Total O/P Hemo Tments
R378	Num	8		Pgm O/P Hemo Tments
R379	Num	8		Total O/P PD Tments
R380	Num	8		Pgm O/P PD Tments
R381	Num	8		Total Trn Hemo Tments
R382	Num	8		Pgm Trn Hemo Tments
R383	Num	8		Total Trn PD Tments
R384	Num	8		Pgm Trn PD Tments
R385	Num	8		Total Trn CAPD Tments
R386	Num	8		Pgm Trn CAPD Tments
R387	Num	8		Total Trn CCPD Tments
R388	Num	8		Pgm Trn CCPD Tments
R389	Num	8		Total HP Hemo Tments
R390	Num	8		Pgm HP Hemo Tments
R391	Num	8		Total HP PD Tments

FCOSHOS: Facility Cost Reports for Hospital Facilities (continued)

Variable	Type	Length	Format	Comment
R392	Num	8		Pgm HP PD Tments
R393	Num	8		Total HP CAPD pt Weeks
R394	Num	8		Pgm HP CAPD pt Weeks
R395	Num	8		Total HP CCPD pt Weeks
R396	Num	8		Pgm HP CCPD pt Weeks
R397	Num	8		Reimburseable Bad Debts
YEAR	Num	4		

FCOSIND: Facility Cost Reports for Independent Facilities
Cost and staffing of dialysis facilities

Variable	Type	Length	Format	Comment
PROVUSRD	Num	8	BEST22.	USRDS assigned facility ID
R2	Char	5		Cost Reporting Period Begin Date
R3	Char	5		first Reporting Period End Date
R4	Char	2		No. of Mths in Cost Report Period
R5	Char	1		Type of Control (Table I)
R12	Char	1		Cost Report Status (Table IV)
R15	Char	5		HCRIS Data File Create Date
R16	Num	8		Phys for Direct Patient Care
R17	Num	8		RNs for Direct Patient Care
R18	Num	8		LPNs for Patient Care
R19	Num	8		Nurs Aides Direct Patient Care
R20	Num	8		Techns for Direct Patient Care
R21	Num	8		Soc Work for Dir Patient Care
R22	Num	8		Dietic for Direct Patient Care
R23	Num	8		No of Machines for Regular Use
R24	Num	8		No of Standby Machines
R25	Num	8		Ave Times/Week Pt Receiv Dial
R26	Num	8		Days/Week Dial is Furn per Wk
R27	Num	8		Typ Mach time/week(1st shift)
R28	Num	8		Typ Machine time/week(2nd shift)
R29	Num	8		Typ Machine time/week(3rd shift)
R30	Num	8		Ave Time of Pt Dialysis
R31	Num	8		Times Dialyz Reus-Hollow Fiber
R32	Num	8		Times Dialyz Reus-Parall Plate
R33	Num	8		Dep, Op, Mnt- B&F O/P H Mnt
R34	Num	8		Dep, Rent, Mnt-M&E O/P H Mnt
R35	Num	8		Sal Dir Pt Care O/P H Maint
R36	Num	8		Emp Bene for Dir Pt O/P H Mnt
R37	Num	8		Drug Costs Alloc to O/P H Mnt
R38	Num	8		Supp Costs Alloc to O/P H Mnt
R39	Num	8		Lab Costs Alloc to O/P H Maint
R40	Num	8		A & G Costs Alloc to O/P H Mnt
R41	Num	8		Tot Costs Alloc to O/P H Mnt
R42	Num	8		Dep, Op, Mnt-B&F O/P PD Mnt
R43	Num	8		Dep, Rent, Mnt-M&E O/P PD Mnt
R44	Num	8		Salfor Dir Pt Care O/P PD Mnt
R45	Num	8		Emp Bene-Dir Pt Care O/P PD Mnt
R46	Num	8		Drug Costs Alloc to O/P PD Mnt
R47	Num	8		Sup Costs Alloc to O/P PD Mnt
R48	Num	8		Lab Costs Alloc to O/P PD Mnt
R49	Num	8		A & G Costs Alloc to O/P PD Mnt
R50	Num	8		Total Costs Alloc to O/P PD Mnt
R51	Num	8		Dep Op Mnt-B&F O/P H Trn
R52	Num	8		Dep Rent Mnt-M&E O/P H Trn
R53	Num	8		Sal for Dir Pt Care O/P H Trn
R54	Num	8		Emp Bene for Dir Pt Care O/P H Trn
R55	Num	8		Drug Costs Alloc to O/P H Trn
R56	Num	8		Supply Costs Alloc to O/P H Trn
R57	Num	8		Lab Costs Alloc to O/P H Trn
R58	Num	8		A & G Costs Alloc to O/P H Trn
R59	Num	8		Total Costs Alloc to O/P H Trn
R60	Num	8		Dep Op, Mnt-B&F O/P PD Trn
R61	Num	8		Dep, Rent, Mnt-M&E O/P PD Trn
R62	Num	8		Sal for Dir Pt Care O/P PD Trn
R63	Num	8		Emp Bene Dir Pt Care O/P PD Trn
R64	Num	8		Drug Costs Alloc to O/P PD Trn
R65	Num	8		Sup Costs Alloc to O/P PD Trn
R66	Num	8		Lab Costs Alloc to O/P PD Trn
R67	Num	8		A & G Costs Alloc to O/P PD Trn
R68	Num	8		Total Costs Alloc to O/P PD Trn
R69	Num	8		Dep, Op, Mnt-B&F O/P CAPD Trn
R70	Num	8		Dep, Rent, Mnt-M&E O/P CAPD Trn
R71	Num	8		Sal for Dir Pt O/P CAPD Trn

FCOSIND: Facility Cost Reports for Independent Facilities (continued)

Variable	Type	Length	Format	Comment
R72	Num	8		Emp Bene Dir Pt O/P CAPD Trn
R73	Num	8		Drug Costs O/P CAPD Trn
R74	Num	8		Sup Costs O/P CAPD Trn
R75	Num	8		Lab Costs O/P CAPD Trn
R76	Num	8		A & G Costs O/P CAPD Trn
R77	Num	8		Total Costs O/P CAPD Trn
R78	Num	8		Dep Op, Mnt -B&F HP H
R79	Num	8		Dep, Rent, Mnt -M&E HP H
R80	Num	8		Sal for Dir Pt Care HP H
R81	Num	8		Emp Bene for Dir Pt Care HP H
R82	Num	8		Drug Costs HP H
R83	Num	8		Sup Costs HP H
R84	Num	8		Lab Costs HP H
R85	Num	8		A & G Costs HP H
R86	Num	8		Total Costs HP H
R87	Num	8		Dep, Op, Mnt -B&F HP PD
R88	Num	8		Dep, Rent, Mnt -M&E HP PD
R89	Num	8		Sal for Dir Pt Care HP PD
R90	Num	8		Emp Bene for Dir Pt HP PD
R91	Num	8		Drug Costs HP PD
R92	Num	8		Sup Costs HP PD
R93	Num	8		Lab Costs HP PD
R94	Num	8		A & G Costs HP PD
R95	Num	8		Total Costs HP PD
R96	Num	8		Dep, Op, Mnt -B&F HP CAPD
R97	Num	8		Dep, Rent, Mnt-M&E HP CAPD
R98	Num	8		Sal for Dir Pt Care HP CAPD
R99	Num	8		Emp Bene for Dir Pt HP CAPD
R100	Num	8		Drug Costs HP CAPD
R101	Num	8		Sup Costs HP CAPD
R102	Num	8		Lab Costs HP CAPD
R103	Num	8		A & G Costs HP CAPD
R104	Num	8		Tot Costs HP CAPD
R105	Num	8		Tot of All Net Exp for Alloc
R106	Num	8		Dir Pt Care Hrs for H Mnt
R107	Num	8		Dir Pt Care Hrs for O/P PD Mnt
R108	Num	8		Dir Pt Care Hrs for O/P H Trn
R109	Num	8		Dir Pt Care Hrs for O/P PD Trn
R110	Num	8		Dir Pt Hrs for O/P CAPD Trn
R111	Num	8		Dir Pt Care Hrs for HP H
R112	Num	8		Dir Pt Care Hrs for HP PD
R113	Num	8		Dir Pt Care Hrs for HP CAPD
R114	Num	8		Total of Dir Pt Care Hrs
R115	Num	8		Total O/P H Maint
R116	Num	8		Medicare O/P H Maint
R117	Num	8		Total O/P PD Maint
R118	Num	8		Medicare O/P PD Maint
R119	Num	8		Total O/P H Trn
R120	Num	8		Medicare O/P H Trn
R121	Num	8		Total O/P PD Trn
R122	Num	8		Medicare O/P PD Trn
R123	Num	8		Total O/P CAPD Trn
R124	Num	8		Medicare O/P CAPD Trn
R125	Num	8		Total HP H
R126	Num	8		Medicare HP H
R127	Num	8		Total HP PD
R128	Num	8		Medicare HP PD
R129	Num	8		Total HP CAPD Weeks
R130	Num	8		Medicare HP CAPD Weeks
R131	Num	8		Reimb Bad Debt Amount
YEAR	Num	4		

PEDGROW: Pediatric Growth

All patients prevalent in 1990 who were born after December 31, 1970 are included in the study, with a study population of more than 3000 cases. The ESRD Networks began receiving data from units and centers with eligible patients in April, 1991. Data collection was completed by the Networks in the early fall of 1991.

Variable	Type	Length	Format	Comment
USRDS_ID	Num	8	BEST32.	USRDS PATIENT ID
BORN	Num	8	DATE9.	Date of Birth
CDEATH	Char	2	SDEATHFM.	Primary cause of death
COMPDATE	Num	8	MMDDYY8.	FORM COMPLETION DATE
CREAT_A	Num	8	BEST32.	SERUM CREATININE AS OF JAN90
CREAT_B	Num	8	BEST32.	SERUM CREATININE ON 2ND MODALITY
CREAT_C	Num	8	BEST32.	SERUM CREATININE ON 3RD MODALITY
CREAT_D	Num	8	BEST32.	SERUM CREATININE ON 4TH MODALITY
CREAT_E	Num	8	BEST32.	SERUM CREATININE AS OF DEC90
DIAGOTHA	Char	5	5	OTHER DIAGNOSIS AS OF JAN90
DIAGOTHB	Char	5	5	OTHER DIAGNOSIS ON 2ND MODALITY
DIAGOTHC	Char	5	5	OTHER DIAGNOSIS ON 3RD MODALITY
DIAGOTHD	Char	5	5	OTHER DIAGNOSIS AS 4TH MODALITY
DIAGSUM	Char	1	\$DIAGFMT.	PRIMARY DIAGNOSIS, SUMMARY
DIAG_CO	Char	5	5	PRIMARY DIAGNOSIS CODE-IDC9CM
DIED	Num	8	DATE9.	Date of Death
DISGRPC	Char	1	\$DISGRPC.	Disease Group
DONOR_TY	Char	1	\$DTYPFMT.	FIRST TRANSPLANT DONOR TYPE
EPO_1	Num	8	MMYY57.	EPO START DATE
EPO_2	Num	8	MMYY57.	EPO END DATE
EPO_91	Char	1	\$YESNO.	USE OF EPO, PRE_1991
ETHNIC	Char	1	\$ETHFMT.	ETHNICITY
FIRST_SE	Num	8	DATE9.	Date of First ESRD Service
GROWHO_1	Num	8	MMYY57.	GROWTH HORMONE THERAPY START DATE
GROWHO_2	Num	8	MMYY57.	GROWTH HORMONE THERAPY END DATE
GROW_HOR	Char	1	\$YESNO.	USE OF GROWTH HORMONE THERAPY, PRE-1991
HDUNIT_A	Char	1	\$SHOWMEAS.	UNITS OF MEASURE, HEAD CIRC AS OF JAN90
HDUNIT_B	Char	1	\$SHOWMEAS.	UNITS OF MEASURE, HEAD CIRC ON 2ND MODAL
HDUNIT_C	Char	1	\$SHOWMEAS.	UNITS OF MEASURE, HEAD CIRC ON 3RD MODAL
HDUNIT_D	Char	1	\$SHOWMEAS.	UNITS OF MEASURE, HEAD CIRC ON 4TH MODAL
HDUNIT_E	Char	1	\$SHOWMEAS.	UNITS OF MEASURE, HEAD CIRC AS OF DEC90
HD_CM_A	Num	8	BEST32.	HEAD CIRCUMFERENCE, IN CM AS OF JAN90
HD_CM_B	Num	8	BEST32.	HEAD CIRCUMFERENCE, IN CM ON 2ND MODAL
HD_CM_C	Num	8	BEST32.	HEAD CIRCUMFERENCE, IN CM ON 3RD MODAL
HD_CM_D	Num	8	BEST32.	HEAD CIRCUMFERENCE, IN CM ON 4TH MODAL
HD_CM_E	Num	8	BEST32.	HEAD CIRCUMFERENCE, IN CM AS OF DEC90
HEDDAT_A	Num	8	MMDDYY8.	DATE OF HEAD MEASURE. AS OF JAN90
HEDDAT_B	Num	8	MMDDYY8.	DATE OF HEAD MEASURE. ON 2ND MODAL
HEDDAT_C	Num	8	MMDDYY8.	DATE OF HEAD MEASURE. ON 3RD MODAL
HEDDAT_D	Num	8	MMDDYY8.	DATE OF HEAD MEASURE. ON 4TH MODAL
HEDDAT_E	Num	8	MMDDYY8.	DATE OF HEAD MEASURE. AS OF DEC90
HEMAT_A	Num	8	BEST32.	HEMATOCRIT, ROUNDED % AS OF JAN90
HEMAT_B	Num	8	BEST32.	HEMATOCRIT, ROUNDED % ON 2ND MODAL
HEMAT_C	Num	8	BEST32.	HEMATOCRIT, ROUNDED % ON 3RD MODAL
HEMAT_D	Num	8	BEST32.	HEMATOCRIT, ROUNDED % ON 4TH MODAL
HEMAT_E	Num	8	BEST32.	HEMATOCRIT, ROUNDED % AS OF DEC90
HEMDAT_A	Num	8	MMDDYY8.	DATE OF HEMATOCRIT AS OF JAN90 MOD
HEMDAT_B	Num	8	MMDDYY8.	DATE OF HEMATOCRIT ON 2ND MODAL
HEMDAT_C	Num	8	MMDDYY8.	DATE OF HEMATOCRIT ON 3RD MODAL
HEMDAT_D	Num	8	MMDDYY8.	DATE OF HEMATOCRIT ON 4TH MODAL
HEMDAT_E	Num	8	MMDDYY8.	DATE OF HEMATOCRIT AS OF DEC90 MOD
HTDAT_A	Num	8	MMDDYY8.	DATE OF HEIGHT MEASURE. AS OF JAN90
HTDAT_B	Num	8	MMDDYY8.	DATE OF HEIGHT MEASURE. ON 2ND MODAL
HTDAT_C	Num	8	MMDDYY8.	DATE OF HEIGHT MEASURE. ON 3RD MODAL
HTDAT_D	Num	8	MMDDYY8.	DATE OF HEIGHT MEASURE. ON 4TH MODAL
HTDAT_E	Num	8	MMDDYY8.	DATE OF HEIGHT MEASURE. AS OF DEC90
HTPOS_A	Char	1	\$HPOSFMT.	POSITION FOR HT. MEASURE AS OF JAN90
HTPOS_B	Char	1	\$HPOSFMT.	POSITION FOR HT. MEASURE ON 2ND MODAL
HTPOS_C	Char	1	\$HPOSFMT.	POSITION FOR HT. MEASURE ON 3RD MODAL
HTPOS_D	Char	1	\$HPOSFMT.	POSITION FOR HT. MEASURE ON 4TH MODAL
HTPOS_E	Char	1	\$HPOSFMT.	POSITION FOR HT. MEASURE AS OF DEC90

PEDGROW: Pediatric Growth (continued)

Variable	Type	Length	Format	Comment
HTUNIT_A	Char	1	SHOWMEAS.	UNITS OF MEASURE., HEIGHT AS OF JAN90
HTUNIT_B	Char	1	SHOWMEAS.	UNITS OF MEASURE., HEIGHT ON 2ND MODAL
HTUNIT_C	Char	1	SHOWMEAS.	UNITS OF MEASURE., HEIGHT ON 3RD MODAL
HTUNIT_D	Char	1	SHOWMEAS.	UNITS OF MEASURE., HEIGHT ON 4TH MODAL
HTUNIT_E	Char	1	SHOWMEAS.	UNITS OF MEASURE., HEIGHT AS OF DEC90
HT_CM_A	Num	8	BEST32.	HEIGHT, IN CENTIMETERS AS OF JAN90
HT_CM_B	Num	8	BEST32.	HEIGHT, IN CENTIMETERS ON 2ND MODAL
HT_CM_C	Num	8	BEST32.	HEIGHT, IN CENTIMETERS ON 3RD MODAL
HT_CM_D	Num	8	BEST32.	HEIGHT, IN CENTIMETERS ON 4TH MODAL
HT_CM_E	Num	8	BEST32.	HEIGHT, IN CENTIMETERS AS OF DEC90
INIT3	Char	3	3	ABTRACTOR INITIALS
MENARCHE	Char	1	YESNO.	HAS MENARCHE OCCURRED AS OF 12/31/90
MENS_PER	Num	8	MMDDYY8.	DATE OF FIRST MENSTRUAL PERIOD
MODDAT_A	Num	8	MMDDYY8.	MODALITY DATE AS OF OF JAN90
MODDAT_B	Num	8	MMDDYY8.	MODALITY DATE ON 2ND MODAL
MODDAT_C	Num	8	MMDDYY8.	MODALITY DATE ON 3RD MODAL
MODDAT_D	Num	8	MMDDYY8.	MODALITY DATE ON 4TH MODAL
MODDAT_E	Num	8	MMDDYY8.	MODALITY DATE AS OF OF DEC90
MOD_A	Char	1	SMODFMT.	MODALITY CODE AS OF JAN90
MOD_B	Char	1	SMODFMT.	MODALITY CODE ON 2ND MODAL
MOD_C	Char	1	SMODFMT.	MODALITY CODE ON 3RD MODAL
MOD_D	Char	1	SMODFMT.	MODALITY CODE ON 4TH MODAL
MOD_E	Char	1	SMODFMT.	MODALITY CODE AS OF DEC90
NETWORK	Char	2	SNETFMT.	ESRD Network
NOLABEL	Char	1	SREASFMT.	REASON PRE_LABELLED FORM NOT COMPLETED
NOTES	Char	100	100	NOTES WRITTEN ON DATA COLLECTION FORM
PDIS	Char	5	5	PRIMARY DISEASE CAUSING ESRD
PROVUSRD	Num	8	BEST22.	KECC Assigned Facility ID
RACE	Char	1	SRACEFMT.	RACE
RECOVERY	Num	8	MMDDYY8.	RENAL RECOVERY, DATE OF LAST TREATMENT
RXDAY90	Char	1	SRXGROUP.	MODALITY AT DAY 90
RXSTOP	Char	1	SRXSTOP.	RX STOPPED PRIOR TO DEATH (1990 ON)
SCHOOL	Char	1	SSCHOFMT.	SCHOOL ATTENDANCE WHILE AT FAC., 1990
SERDAT_A	Num	8	MMDDYY8.	SERUM CREATININE DATE AS OF JAN90
SERDAT_B	Num	8	MMDDYY8.	SERUM CREATININE DATE ON 2ND MODAL
SERDAT_C	Num	8	MMDDYY8.	SERUM CREATININE DATE ON 3RD MODAL
SERDAT_D	Num	8	MMDDYY8.	SERUM CREATININE DATE ON 4TH MODAL
SERDAT_E	Num	8	MMDDYY8.	SERUM CREATININE DATE AS OF DEC90
SEX	Char	1	SSEXFMT.	GENDER
STATUS	Char	1	SDESCFMT.	STATUS CODE ON 12/31/90
STERDOSE	Num	8	BEST32.	DOSE (MG.), LAST DATE ON STEROIDS 1990
STERDUR	Num	8	BEST32.	DURATION OF STEROID USE (MONTHS), 1990
STEROID	Char	1	SSTERFMT.	USE OF STEROIDS AT FACILITY DURING 1990
TANDAT_A	Num	8	MMDDYY8.	DATE OF TANNER STAGE CODING AS OF JAN90
TANDAT_E	Num	8	MMDDYY8.	DATE OF TANNER STAGE CODING AS OF DEC90
TANNER_A	Char	1	STANFMT.	TANNER STAGE AS OF JAN90
TANNER_E	Char	1	STANFMT.	TANNER STAGE AS OF DEC90
TOT_TX	Num	8	4	TOTAL TRANSPLANTS FOR THIS PATIENT
TREAT_1	Num	8	MMDDYY8.	TREATMENT PERIOD START DATE
TREAT_2	Num	8	MMDDYY8.	TREATMENT PERIOD END DATE
TXDATE	Num	8	MMDDYY8.	DATE OF FIRST TRANSPLANT
TXFAILED	Num	8	MMDDYY8.	FIRST TRANSPLANT FAILURE DATE
WTADJ_A	Char	1	SWADJFMT.	WEIGHT ADJ AS OF JAN90 - PD ONLY
WTADJ_B	Char	1	SWADJFMT.	WEIGHT ADJ ON 2ND MODAL - PD ONLY
WTADJ_C	Char	1	SWADJFMT.	WEIGHT ADJ ON 3RD MODAL - PD ONLY
WTADJ_D	Char	1	SWADJFMT.	WEIGHT ADJ ON 4TH MODAL - PD ONLY
WTADJ_E	Char	1	SWADJFMT.	WEIGHT ADJ AS OF DEC90 - PD ONLY
WTDAT_A	Num	8	MMDDYY8.	DATE OF WEIGHT MEASUREMENT AS OF JAN90
WTDAT_B	Num	8	MMDDYY8.	DATE OF WEIGHT MEASUREMENT ON 2ND MODAL
WTDAT_C	Num	8	MMDDYY8.	DATE OF WEIGHT MEASUREMENT ON 3RD MODAL
WTDAT_D	Num	8	MMDDYY8.	DATE OF WEIGHT MEASUREMENT ON 4TH MODAL
WTDAT_E	Num	8	MMDDYY8.	DATE OF WEIGHT MEASUREMENT AS OF DEC90
WTUNIT_A	Char	1	SHOWMEAS.	UNITS OF MEASURE. WEIGHT AS OF JAN90

PEDGROW: Pediatric Growth (continued)

Variable	Type	Length	Format	Comment
WTUNIT_B	Char	1	SHOWMEAS.	UNITS OF MEASURE. WEIGHT ON 2ND MODAL
WTUNIT_C	Char	1	SHOWMEAS.	UNITS OF MEASURE. WEIGHT ON 3RD MODAL
WTUNIT_D	Char	1	SHOWMEAS.	UNITS OF MEASURE. WEIGHT ON 4TH MODAL
WTUNIT_E	Char	1	SHOWMEAS.	UNITS OF MEASURE. WEIGHT AS OF DEC90
WT_KG_A	Num	8	BEST32.	WEIGHT, IN KG AS OF JAN90
WT_KG_B	Num	8	BEST32.	WEIGHT, IN KG ON 2ND MODAL
WT_KG_C	Num	8	BEST32.	WEIGHT, IN KG ON 3RD MODAL
WT_KG_D	Num	8	BEST32.	WEIGHT, IN KG ON 4TH MODAL
WT_KG_E	Num	8	BEST32.	WEIGHT, IN KG AS OF DEC90
XFER_ID	Char	6		FACIL. TRANSFERED FROM : PROVID
XFR2_ID	Char	6		FACIL. TRANSFERED TO : PROVID

WAV2UPDT: Wave 2 Special Study Updated with USRDS Established ESRD Dates
Wave 2 Study with updated variables.

Variable	Type	Length	Format	Comment
USRDS_ID	Num	8	23	USRDS assigned patient ID
ABS_PULS	Char	1	SSUSPCT.	DW2.M B 5d: Absent foot pulses
AC1_SIDE	Char	1	SSIDE.	DW2.M C 5i: Hemo - Side of access FD dt
AC2_SIDE	Char	1	SSIDE.	DW2.M C 5i: Hemo - Side of access SS dt
ACCESS1	Char	1	SVASTYPE.	DW2.M C 5h: Hemo - Vascular access FD dt
ACCESS2	Char	1	SVASTYPE.	DW2.M C 5h: Hemo - Vascular access SS dt
ACCFAIL	Char	1	SYESNO.	DW2.M C 5j: Hemo - Access Fail
ACCLESS	Char	1	SYESNO.	D2Q A14: Phys Hlth: Accomplished less
ACCLESS2	Char	1	SYESNO.	DW2.PFUP A14: PH: Accomplish less liked
ACCMATUR	Char	1	SYESNO.	DW2.M C 5j: Hemo - Access mature
ACCREVIS	Char	1		DW2.M C 5j: Hemo - Access Revision
ACCTEMP	Char	1	SYESNO.	DW2.M C 5k: Hemo - Temp. Access
ACCTYPE	Char	1	SVASTYPE.	DW2.M C 5j: Hemo - Type of access
ACMPLS	Char	1	SYESNO.	D2Q A18: EP: Accomplished less than li
ACMPLS2	Char	1	SYESNO.	DW2.PFUP A18: EP: Accomplish less liked
ACSPROB	Char	1	SEXTEN5B.	D2Q A58: Problems with access/catheter
ACSPROB2	Char	1	SEXTEN5B.	DW2.PFUP A58: Problems, access or cath.
AFAIL_F1	Char	1	SYESNO.	DW2.MFUP C4: 1PVA fail predial, notused
AFAIL_F2	Char	1	SYNUFMT.	DW2.MFUP C5: 1PVA fail pstdial, afteruse
AFT_WTKG	Num	8		DW2.M C 2: Dry weight - Kilograms
AFT_WTLB	Num	8		DW2.M C 2: Dry weight - pounds
AGE_GE60	Char	1		DW2.PFUP D: Age Greater than or =to60
AGE_LT60	Char	1		DW2.PFUP D: Age less than 60
AIDS	Char	1	SHIVFMT.	DW2.M B 11: Diagnosed w/ AIDS
ALONE	Char	1	SALONE.	DW2.M C 10: Living Alone
AMPUTATA	Char	1	SSUSPCT.	DW2.M B 5b: Amputation due to PVD
ANGINA	Char	1	SSUSPCT.	DW2.M B 3b: Angina
ANGIOGRA	Char	1	SSUSPCT.	DW2.M B 3f: Coronary Angiography
ANGIOPLA	Char	1	SSUSPCT.	DW2.M B 3e: Coronary Angioplasty
AN_GRABN	Char	1	SSUSPCT.	DW2.M B 3f: Coronary Angio. abnormal
APPET	Char	1	SEXTEN5B.	D2Q A54: Lack of appetite
APPET2	Char	1	SEXTEN5B.	DW2.PFUP A54: Lack of appetite
APPLOSS	Char	1	STIMBF4A.	D2Q B6: Onset of appetite loss
AROUSAB2	Char	1	SPROBLEM.	DW2.PFUP A67: Difficult,sexually aroused
AROUSABL	Char	1	SPROBLEM.	D2Q A67: Difficulty becoming sexually a
ASIDE_FU	Char	1	SSIDE.	DW2.MFUP C2: What Side was this 1stPVA
ASSTGVN	Char	1	SYESNO.	D2Q F6: Assistance given to complete fo
ASSTGVN2	Char	1	SYESNO.	DW2.PFUP E6: Assistance given w/ form
AVOIDBLD	Char	1	SYESNON.	D2Q B9: Told to avoid blood draws/intra
BATHING	Char	1	SLIMIT3A.	D2Q A12: Bathing/dressing self
BATHING2	Char	1	SLIMIT3A.	DW2.PFUP A12: Bathing or dressing self
BCROSS1	Char	1	SYESNO.	DW2.M A 9a: Blue Cross month bfore A6
BCROSS2	Char	1	SYESNO.	DW2.M A 9a: Blue Cross at/near A7
BEND	Char	1	SLIMIT3A.	D2Q A 8 Bending, kneeling, stooping
BEND2	Char	1	SLIMIT3A.	DW2.PFUP A8: Bending,kneeling,stooping
BESTQLTY	Char	1	SQOLHDPD.	D2Q C10: Which treatment provides best
BFR	Num	8		DW2.M C 5d: Hemo - Blood flow rate
BICARB	Char	1	SYESNON.	D2Q B8a: Treatment w/bicarbonate
BILAMP	Char	1		DW2.M C 1: Bilateral amputee
BIRTHDAY	Char	2		DW2.M : Patients Birth day
BIRTHMTH	Char	2		DW2.M : Patients Birth Mth
BIRTHYR	Char	2		DW2.M : Patients Birth yr
BLDTST	Char	1	STIMBF2A.	D2Q B2: Blood test from physician
BODPAIN	Char	1	SPAIN6A.	D2Q A21: Amount of bodily pain
BODPAIN2	Char	1	SPAIN6A.	DW2.PFUP A21: Amount of Bodily Pain
BREATH	Char	1	SEXTEN5B.	D2Q A52: Shortness of breath
BREATH2	Char	1	SEXTEN5B.	DW2.PFUP A52: Shortness of Breath
BUNED_FU	Num	8		DW2.MFUP B4b: End BUN
BUNST_FU	Num	8		DW2.MFUP B4b: Start BUN
BUNWT_LK	Num	8		DW2.M D 9c: Pre/Pst Weight in Lb/KG
BUN_BFST	Num	8		DW2.M D 9a: BUN of Urea value FSTdial
BUN_SD	Num	8		DW2.M C 7: BUN (same day)
BURDEN	Char	1	STRUE5A.	D2Q A40: Burden on family

WAV2UPDT: Wave 2 Special Study Updated with USRDS Established ESRD Dates (continued)

Variable	Type	Length	Format	Comment
BURDEN2	Char	1	STRUE5A.	DW2.PFUP A40: Burden of Family
BURDFAM	Char	1	SAGREE6A.	D2Q C 8i: HD is burden on family
CABG	Char	1	SSUSPCT.	DW2.M B 3d: Bypass Surgery
CALM	Char	1	STIME6A.	D2Q A26: Calm & peaceful
CALM2	Char	1	STIME6A.	DW2.PFUP A26: Calm & Peaceful
CARDARR	Char	1	SSUSPCT.	DW2.M B 3g: Cardiac arrest
CATHDAY	Char	2		DW2.M C 6e: day of Catheter on SSD
CATHMTH	Char	2		DW2.M C 6e: mth of Catheter on SSD
CATHYR	Char	2		DW2.M C 6e: yr of Catheter on SSD
CEREBROV	Char	1	SSUSPCT.	DW2.M B 4a: Cerebrovascular Accident
CHD_CAD	Char	1	SSUSPCT.	DW2.M B 3a: Prior Dx of CHD/CAD
CHESTPN	Char	1	SEXTEN5B.	D2Q A48: Chest pain
CHESTPN2	Char	1	SEXTEN5B.	DW2.PFUP A48: Chest Pain
CHNG_DAY	Char	2		DW2.MFUP A1: Day of 1st change status
CHNG_FDT	Num	8	DATE9.	DW2.MFUP A1: Date of 1st Change In Statu
CHNG_MTH	Char	2		DW2.MFUP A1: Month of 1st change status
CHNG_TYP	Char	2	\$FUCHGTY.	DW2.MFUP A1: Type of Change in Status
CHNG_YR	Char	2		DW2.MFUP A1: Year of 1st change status
CHOLEST	Num	8		DW2.M D 11a: Cholesterol
CHOL_HDL	Num	8		DW2.M D 11b: HDL Cholesterol
CHOL_LDL	Num	8		DW2.M D 11c: LDL Cholesterol
CHOSMTD	Char	1	SSELECT.	D2Q C 2: Method of choosing treatment
CLAUDIC	Char	1	SSUSPCT.	DW2.M B 5e: Claudication
CLIMBMLT	Char	1	SLIMIT3A.	D2Q A 6 Climbing sever flts of stairs
CLIMBMT2	Char	1	SLIMIT3A.	DW2.PFUP A6: Climbing Flights of stairs
CLIMBON2	Char	1	SLIMIT3A.	DW2.PFUP A7: Climbing 1flight of stairs
CLIMBONE	Char	1	SLIMIT3A.	D2Q A 7 Climbing 1 ft of stairs
CLOSENS	Char	1	SIMPORT.	D2Q C 7a: Impor of close facility
COMPDAY	Char	2		DW2.M A 2: day Completed
COMPDPY	Char	1	SYESNO.	DW2.M : Patient complete Dialysis PtQ\
COMPMTH	Char	2		DW2.M A 2: mth Completed
COMPYR	Char	2		DW2.M A 2: yr Completed
CONFUSE	Char	1	STIME6A.	D2Q A46: Become confused
CONFUSE2	Char	1	STIME6A.	DW2.PFUP A46: Become Confused
CONG_H	Char	1	SSUSPCT.	DW2.M B 6a: Congestive Heart failure
CORRDOB	Char	2		DW2.MFUP : Correct Day of Birth
CORRDY60	Char	2		DW2.MFUP : Correct Day of Day 60
CORRMOB	Char	2		DW2.MFUP : Correct Month of Birth
CORRMOD	Char	30		DW2.MFUP : Correct Modality at Day60
CORRMT60	Char	2		DW2.MFUP : Correct Month of Day 60
CORRYOB	Char	2		DW2.MFUP : Correct year of Birth
CORRYR60	Char	2		DW2.MFUP : Correct Year of Day 60
CORR_PVA	Char	1	\$FUVATYP.	DW2.MFUP C2: Corrected VAPerm type
COUNSLD	Char	1	STRUE5B.	D2Q A78: Counseled to achieve full reha
COUNSLD2	Char	1	STRUE5B.	DW2.PFUP A78: Staff, counsel full rehab
CRAMPS	Char	1	SEXTEN5B.	D2Q A49: Cramps
CRAMPS2	Char	1	SEXTEN5B.	DW2.PFUP A49: Cramps
CREAT1	Num	8		DW2.M D 8b: Serum Creatinine at SSDate
CREAT2	Num	8		DW2.M D 8a: Serum Creatinine Bf fst dial
CURRFDT	Num	8	DATE9.	DW2.MFUP A2: Date of Current Status
CURRSTAT	Char	1	\$FUPSTAT.	DW2.MFUP A2: Pts Current Status
CURR_DAY	Char	2		DW2.MFUP A2: Day of Current Status
CURR_MTH	Char	2		DW2.MFUP A2: Month of Current Status
CURR_YR	Char	2		DW2.MFUP A2: Year of Current Status
DATESAME	Char	1	SYESNO.	DW2.M A 8: was A6=earliest dial
DATE_DAY	Char	2		DW2.MFUP : Todays Day
DATE_FDT	Num	8	DATE9.	DW2.MFUP: Todays Date
DATE_MTH	Char	2		DW2.MFUP : Todays Month
DATE_YR	Char	2		DW2.MFUP : Todays Year
DAYS_CYC	Num	8		DW2.M C 6c: days/week - cycler
DAYS_MAN	Num	8		DW2.M C 6c: days/Week - manual
DEPEND	Char	1	SEXTEN5B.	D2Q A63: Dependent on doctors/staff
DEPEND2	Char	1	SEXTEN5B.	DW2.PFUP A63: Dependent on Dr or Staff
DESWRK	Char	1	\$WANTWRK.	D2Q F4: Desire to return to work

WAV2UPDT: Wave 2 Special Study Updated with USRDS Established ESRD Dates (continued)

Variable	Type	Length	Format	Comment
DESWRK2	Char	1	SWANTWRK.	DW2.PFUP E4: Like to return to work
DIALCRET	Num	8		DW2.M C 7: Dialysate Creatinine
DIALDAY	Char	2		DW2.M : First Dialysis day
DIALMAKE	Char	15		DW2.M C 5g: Hemo - Dialyzer make
DIALMODL	Char	19		DW2.M C 5g: Hemo - Dialyzer model
DIALMTH	Char	2		DW2.M : First Dialysis Month
DIALREUS	Char	1	SIMPORT.	D2Q C 7d: Dialyzer reuse policy
DIALTYP	Char	1	SIMPORT.	D2Q C 7c: Type of dialysis offered
DIALUNIT	Char	1	SNOYES.	D2Q D5: Who pays: Dialysis Unit
DIALUREA	Num	8		DW2.M C 7: Dialysate Urea N
DIALYR	Char	2		DW2.M : First Dialysis year
DIALYSAT	Char	1	SDISATE.	DW2.M C 5a: Dialysate
DIALYZER	Char	4		DW2.M C 5g: Hemo - Dialyzer type
DIALY_VM	Num	8		DW2.M C 6c: Total Dialysate volume/24hrs
DIETVST	Char	1	SONCE3A.	D2Q B5: Visits with dietitian
DIETVST2	Char	1	SONCE3A.	DW2.PFUP B1: Pst ESRD, visit dietitian
DIFFCON	Char	1	\$TIME6A.	D2Q A44: Difficult to concentrate/think
DIFFCON2	Char	1	\$TIME6A.	DW2.PFUP A44: Difficult to think/conctr
DIFFPER	Char	1	SYESNO.	D2Q A16: PH: Difficulty performing wor
DIFFPER2	Char	1	SYESNO.	DW2.PFUP A16: PH: Difficulty perform wrk
DIFWRK	Char	1	SAGREE6A.	D2Q C 8h: HD more difficult to work/sch
DITRST	Char	1	SEXTEN5B.	D2Q A60: Dietary restrictions
DITRST2	Char	1	SEXTEN5B.	DW2.PFUP A60: Dietary Restrictions
DMMS_ID	Num	8	23.	DMMS Patient ID
DOWNBLU	Char	1	\$TIME6A.	D2Q A28: Downhearted & blue
DOWNBLU2	Char	1	\$TIME6A.	DW2.PFUP A28: Downhearted & Blue
DOWNDMP2	Char	1	\$TIME6A.	DW2.PFUP A25: Down in Dumps
DOWNDUMP	Char	1	\$TIME6A.	D2Q A25: Down in dumps
DPILLS	Char	1	SNEVRFMT.	DW2.M B 7b: Diabetes Pills
DRAIN	Char	1	SEXTEN5B.	D2Q A55: Washed out/drained
DRAIN2	Char	1	SEXTEN5B.	DW2.PFUP A55: Washed out or Drained
DRVOTHER	Char	1	SNOYES.	D2Q D3: Other reason pt. cannot drive
DRYSKN	Char	1	SEXTEN5B.	D2Q A51: Dry skin
DRYSKN2	Char	1	SEXTEN5B.	DW2.PFUP A51: Dry Skin
DX_DIAB	Char	1	SSUSPCT.	DW2.M B 7: Prior Dx of Diabetes
ECHOCARD	Char	1	SYESNO.	DW2.M D 2b: Left Ventr. hyper. by echogr
EDIALDAY	Char	2		DW2.M A 8a: Earliest day
EDIALMTH	Char	2		DW2.M A 8a: Earliest mth
EDIALYR	Char	2		DW2.M A 8a: Earliest yr
EDUCAT	Char	1	SEDLEV.	DW2.M C 11: Education
EKG	Char	1	SYESNO.	DW2.M D 2a: Left Ventr. Hyper. by EKG
EMPLST	Char	1	SWORK8A.	D2Q A75: Employment status
EMPLST2	Char	1	SWORK8A.	DW2.PFUP A75: Employment status
EMP_2YR	Char	2	SEMPDMMS.	DW2.M C 13a: Emp. 24-6mths before ESRD
EMP_NDT	Char	2	SEMPDMMS.	DW2.M C 13a: Employment at SSDate
ENCOURG2	Char	1	\$TRUE5B.	DW2.PFUP A77: Staff, encour. normal life
ENCOURGD	Char	1	\$TRUE5B.	D2Q A77: Encouraged to lead normal life
ENERGY	Char	1	\$TIME6A.	D2Q A27: Lots of energy
ENERGY2	Char	1	\$TIME6A.	DW2.PFUP A27: Lots of Energy
ENJSEX	Char	1	\$PROBLEM.	D2Q A66: Ability to relax/enjoy sex
ENJSEX2	Char	1	\$PROBLEM.	DW2.PFUP A66: Inability to enjoy Sex
EPO	Char	1	SYESNON.	D2Q B8b: Treatment w/erythropoietin
EPO1	Char	1	SYESNO.	DW2.M D 7a: Taking EPO
EPOTYPE	Char	1	SEPOADM.	DW2.M D 7a: Type of EPO
EPO_FS	Char	1	SYESNO.	DW2.M D 7a: Taking EPO During fst 60days
EPO_LAST	Char	1	SYESNO.	DW2.M D 7b: Taking EPO During 30days bf
ETHNIC	Char	1	SYNFMT.	DW2.M A 3: Ethnicity (Hispanic or Not)
EXCYDAY	Num	8		DW2.M C 6c: # exchanges/day - cycler
EXFREQ	Char	1	SEXER.	D2Q F1: Frequency of exercise
EXFREQ2	Char	1	SEXER.	DW2.PFUP E1: Frequency of Exercise
EXLHLTH	Char	1	\$TRUE5A.	D2Q A36: Health is excellent
EXLHLTH2	Char	1	\$TRUE5A.	DW2.PFUP A36: Health is excellent
EXMNDAY	Num	8		DW2.M C 6c: # exchanges/day - manual
EXPIRED	Char	1		DW2.MFUP : Patient Expired

WAV2UPDT: Wave 2 Special Study Updated with USRDS Established ESRD Dates (continued)

Variable	Type	Length	Format	Comment
EXP_PAT	Char	1	SYESNO.	DW2.PFUP : Patient Expired
FACCDAY	Char	2		DW2.M C 5j: Hemo - day of 1st use of VA
FACCMTH	Char	2		DW2.M C 5j: Hemo - mth of 1st use of VA
FACCOM	Char	1	SIMPORT.	D2Q C 7f: Comfort of facility
FACCYR	Char	2		DW2.M C 5j: Hemo - yr of 1st use of VA
FAILDAY	Char	2		DW2.MFUP C5: 1PVA Failed after use, Day
FAILMTH	Char	2		DW2.MFUP C5: 1PVA Failed after use, Mth
FAILYR	Char	2		DW2.MFUP C5: 1PVA Failed after use, Yr
FAIL_FDT	Num	8	DATE9.	DW2.MFUP C5: Date 1st Perm VA Failed
FAINT	Char	1	SEXTEN5B.	D2Q A53: Faintness/dizziness
FAINT2	Char	1	SEXTEN5B.	DW2.PFUP A53: Faintness/Dizziness
FDIALDAY	Char	2		DW2.M A 6: day of fst chron maint dial
FDIALMTH	Char	2		DW2.M A 6: mth of fst chron maint dial
FDIALYR	Char	2		DW2.M A 6: year of fst chron maint dial
FIRST_SE	Num	8	DATE9.	Date of First ESRD Service
FDRST	Char	1	SEXTEN5B.	D2Q A59: Fluid restrictions
FDRST2	Char	1	SEXTEN5B.	DW2.PFUP A59: Fluid Restrictions
FLDSTRUCT	Char	1	SAGREE6A.	D2Q C 8e: Fluid restrict less on PD
FLEXIBLE	Char	1	SAGREE6A.	D2Q C 8c: PD allows more flexibility
FRIENDLY	Char	1	SGOOD7A.	D2Q A76: Friendliness/interest of staff
FRIENDY2	Char	1	SGOOD7A.	DW2.PFUP A76: Friendliness of staff
FROMMED	Num	8		Medical Questionnaire present
FROMPAT	Num	8		Patient/QOL Questionnaire present
FRUST	Char	1	STRUE5A.	D2Q A39: Frustrated w/Kidney Disease
FRUST2	Char	1	STRUE5A.	DW2.PFUP A39: Frustrated w/ Kidney Dis
FSTPDC	Char	1	SYESNO.	DW2.M C 6f: 1st PD cath
GETALNG	Char	1	STIME6A.	D2Q A45: Get along well with others
GETALNG2	Char	1	STIME6A.	DW2.PFUP A45: Get along well w/ others
GURNEY	Char	1	SNOYES.	D2Q D3: Must be transported on stretche
HAPPYPER	Char	1	STIME6A.	D2Q A30: Happy person
HAPPYPR2	Char	1	STIME6A.	DW2.PFUP A30: Happy Person
HELGEN	Char	1	SGOOD5A.	D2Q A 1 General Health
HELGEN2	Char	1	SGOOD5A.	DW2.PFUP A1: General Health
HELPRE	Char	1	SCOMPFFT.	D2Q A 2 Health compared to prev year
HELPRE2	Char	1	SCOMPFFT.	DW2.PFUP A2: Health compared to pre yr
HEMATO	Num	8		DW2.M D 6a: Hematocrit
HEMO2	Char	1		DW2.PFUP C: On Hemodialysis
HEMOGLOB	Num	8		DW2.M D 6b: Hemoglobin
HEMO_BPD	Char	1	SYESNO.	DW2.M C 6g: Hemo before SSD
HEMO_HRS	Num	8		DW2.M C 5b: Hemo - Presc hours/ treat
HEMO_MIN	Num	8		DW2.M C 5b: Hemo - Presc Minutes/ treat
HIV	Char	1	SHIVFMT.	DW2.M B 10: HIV Status
HLDISCPH	Char	1	SNOYES.	D2Q C 3: Ind. discussion with physician
HLDISCSW	Char	1	SNOYES.	D2Q C 3: Ind. discussion with social wor
HLFAMDIS	Char	1	SNOYES.	D2Q C 3: Ind. disc w/fam, friends, oth pts
HLGRPDIS	Char	1	SNOYES.	D2Q C 3: Grp. disc/class expl. tx option
HLOTHER	Char	1	SNOYES.	D2Q C 3: None of the above
HLTHEXP	Char	1	STRUE5A.	D2Q A34: Healthy as anybody
HLTHEXP2	Char	1	STRUE5A.	DW2.PFUP A34: Heathy as anybody
HLTWRS	Char	1	STRUE5A.	D2Q A35: Expect health to worsen
HLTWRS2	Char	1	STRUE5A.	DW2.PFUP A35: Expect health to worsen
HLVIDEO	Char	1	SNOYES.	D2Q C 3: Videotape materials
HLWRITEN	Char	1	SNOYES.	D2Q C 3: Written materials
HMO1	Char	1	SYESNO.	DW2.M A 9h: HMO mth bfore A6
HMO2	Char	1	SYESNO.	DW2.M A 9h: HMO at/near A7
HOWLRN2	Char	40		D2Q C 3a: Oth way inform of tx options,t
HRS_CYC	Num	8		DW2.M C 6c: total hrs/day on cyclcr
HT_CM	Num	8		DW2.M C 1: Height - Cm.
HT_FT	Num	8		DW2.M C 1: Height - ft.
HT_IN	Num	8		DW2.M C 1: Height - In.
IND_AMBU	Char	1	SYESNO.	DW2.M C 8c: Independent Ambulating
IND_EAT	Char	1	SYESNO.	DW2.M C 8a: Independent eating
IND_XFER	Char	1	SYESNO.	DW2.M C 8b: Independent transferring
INSULIN	Char	1	SNEVRFMT.	DW2.M B 7a: Insulin therapy

WAV2UPDT: Wave 2 Special Study Updated with USRDS Established ESRD Dates (continued)

Variable	Type	Length	Format	Comment
INTJUG	Char	1	\$ACCTYPE.	DW2.M C 5k: Hemo - Internal Jugular
INTLIFE	Char	1	\$TRUE5A.	D2Q A37: Kidney disease interferes w/li
INTLIFE2	Char	1	\$TRUE5A.	DW2.PFUP A37: Kidney Dis interfer w/life
INTSOC	Char	1	\$TIME5A.	D2Q A32: PH/EP interference w/social ac
INTSOC2	Char	1	\$TIME5A.	DW2.PFUP A32: PH/EP interf. w/social act
IRRIT	Char	1	\$TIME6A.	D2Q A43: Act irritable
IRRIT2	Char	1	\$TIME6A.	DW2.PFUP A43: Act irritable
ISOLATE	Char	1	\$TIME6A.	D2Q A41: Isolate self from others
ISOLATE2	Char	1	\$TIME6A.	DW2.PFUP A41: Isolate self from others
ITCHSKN	Char	1	\$EXTEN5B.	D2Q A50: Itchy skin
ITCHSKN2	Char	1	\$EXTEN5B.	DW2.PFUP A50: Itchy Skin
LAST_DAY	Char	2		DW2.MFUP C5: 1PVA Last known Day of Use
LAST_FDT	Num	8	DATE9.	DW2.MFUP C5: Last Dt 1st PermVa used
LAST_MTH	Char	2		DW2.MFUP C5: 1PVA Last known Month Use
LAST_YR	Char	2		DW2.MFUP C5: 1PVA Last known Year of Use
LIFT	Char	1	\$LIMIT3A.	D2Q A 5 Lift/carry groceries
LIFT2	Char	1	\$LIMIT3A.	DW2.PFUP A5: Lift or carry groceries
LIMBAMP	Char	1	\$SUSPCT.	DW2.M B 5c: Limb amputation (other)
LIMWRK	Char	1	\$YESNO.	D2Q A15: PH: Limited in kind of work
LIMWRK2	Char	1	\$YESNO.	DW2.PFUP A15: PH: Limited in kind of wrk
LIVEFAR	Char	1	\$AGREE6A.	D2Q C 8k: Live far from HD facility
LONGER	Char	1	\$AGREE6A.	D2Q C 8b: HD trtmnt more lengthy than PD
LOGLIFE	Char	1	\$QOLHDPD.	D2Q C11: Which treatment provides longe
LOOKEMP	Char	1	\$YESNO.	DW2.M C 14: Looking for Employment
LT_EXCY	Num	8		DW2.M C 6c: liters/exchange - Cyclor
LT_EXMN	Num	8		DW2.M C 6c: liters/exchange - manual
LUNGDIS	Char	1	\$SUSPCT.	DW2.M B 8: History of Lung Disease
MAR_STAT	Char	1	\$MARSTAT.	DW2.M C 9: Marital Status
MCAID1	Char	1	\$YESNO.	DW2.M A 9d: Medicaid month bfore A6
MCAID2	Char	1	\$YESNO.	DW2.M A 9d: Medicaid at/near A7
MED1	Char	12		DW2.M D 15: Medications at SSD
MED2	Char	12		DW2.M D 15: Medications at SSD
MED3	Char	12		DW2.M D 15: Medications at SSD
MED4	Char	12		DW2.M D 15: Medications at SSD
MED5	Char	12		DW2.M D 15: Medications at SSD
MED6	Char	12		DW2.M D 15: Medications at SSD
MED7	Char	12		DW2.M D 15: Medications at SSD
MED8	Char	12		DW2.M D 15: Medications at SSD
MED9	Char	12		DW2.M D 15: Medications at SSD
MED10	Char	12		DW2.M D 15: Medications at SSD
MED11	Char	12		DW2.M D 15: Medications at SSD
MED12	Char	12		DW2.M D 15: Medications at SSD
MED13	Char	12		DW2.M D 15: Medications at SSD
MED14	Char	12		DW2.M D 15: Medications at SSD
MED15	Char	12		DW2.M D 15: Medications at SSD
MED2_1	Char	1	\$YESNO.	DW2.M A 9c: Medicare secondary mth bf A6
MED2_2	Char	1	\$YESNO.	DW2.M A 9c: Medicare secondary at/n A7
MEDICAR1	Char	1	\$YESNO.	DW2.M A 9c: Medicare month bfore A6
MEDICAR2	Char	1	\$YESNO.	DW2.M A 9c: Medicare at/near A7
MEDPEND	Char	1	\$YESNO.	DW2.M A 9c: Medicare Pending at/n A7
MEDPROB	Char	1	\$AGREE6A.	D2Q C 8l: Med probs precluded txt choice
METRANS	Char	1	\$TRANS.	D2Q D2: Method of transportation to fac
MI	Char	1	\$SUSPCT.	DW2.M B 3c: MI
MINFAC	Char	1	\$DIST.	D2Q D1: # of minutes to dialysis facili
MISSEXG2	Char	1	\$MISSEDX.	DW2.PFUP C4: # CAPD missed exchanges
MISSTRMT	Char	1	\$CYCLER.	D2Q C13: # times cyclor missed a treatm
MISSTRT2	Char	1	\$CYCLER.	DW2.PFUP C5: # Cyclor missed treatment
MISSXCHG	Char	1	\$MISSEDX.	D2Q C12: # times CAPD patient missed ex
MODACT	Char	1	\$LIMIT3A.	D2Q A 4 Moderate acts: vacuuming, bowl
MODACT2	Char	1	\$LIMIT3A.	DW2.PFUP A4: Moderate activities
MOD_NOW	Char	1	\$FUMODAL.	DW2.MFUP B1: Patients current Modality
MORESTRS	Char	1	\$AGREE6A.	D2Q C 8g: PD more stressful than HD
MOSTIMP	Char	1		D2Q C 9: Most imp reason for txt choice
MUSSOR	Char	1	\$EXTEN5B.	D2Q A47: Muscle soreness

WAV2UPDT: Wave 2 Special Study Updated with USRDS Established ESRD Dates (continued)

Variable	Type	Length	Format	Comment
MUSSOR2	Char	1	SEXTEN5B.	DW2.PFUP A47: Muscle Soreness
MYSELF	Char	1	SNOYES.	D2Q D5: Who pays: Myself/family
NAP	Char	1	SYESNO.	D2Q A69: Sleep/nap during day
NAP2	Char	1	SYESNO.	DW2.PFUP A69: Sleep or Nap more, Day
NAUSEA	Char	1	SEXTEN5B.	D2Q A57: Nausea/upset stomach
NAUSEA2	Char	1	SEXTEN5B.	DW2.PFUP A57: Nausea or Upset Stomache
NEEDHELP	Char	1	SNOYES.	D2Q D3: Requires help walking/climbing
NEEDLES	Char	1	SAGREE6A.	D2Q C 8f: Patient aversion to needles
NEOPLASM	Char	1	SSUSPCT.	DW2.M B 9: Neoplasms (other than skin)
NEO_TYP2	Char	2	SNEOSITE.	DW2.M B 9a: Neoplasm second site/type
NEO_TYPE	Char	2	SNEOSITE.	DW2.M B 9a: Neoplasm primary site/type
NEO_YEAR	Char	2		DW2.M B 9b: Year of first neoplasm Dx
NEPHVST	Char	1	SVISITS.	D2Q B4: Visits to nephrologist prior to
NERVPER	Char	1	STIME6A.	D2Q A24: Nervous person
NERVPER2	Char	1	STIME6A.	DW2.PFUP A24: Nervous Person
NET_FU	Char	3	SNETFMT.	DW2.MFUP : Network
NOCAR	Char	1	SNOYES.	D2Q D3: No access to a car
NODRIVE	Char	1	SNOYES.	D2Q D3: Does not know how to drive
NOINS1	Char	1	SYESNO.	DW2.M A 9g: No Insurance Mth bfore A6
NOINS2	Char	1	SYESNO.	DW2.M A 9g: No Insurance at/near A7
NOTABLE	Char	1	SNOYES.	D2Q D3: No longer able to drive a car
NOTDRIV2	Char	40		D2Q D3a: Other reason for not driving
NOTEMP	Char	1	SNOYES.	D2Q E1a: Not currently employed
NOTSTRCT	Char	1	SAGREE6A.	D2Q C 8d: Diet less strict with HD
NUMB	Char	1	SEXTEN5B.	D2Q A56: Numbness in hands/feet
NUMB2	Char	1	SEXTEN5B.	DW2.PFUP A56: Numbness in hands or feet
NUMMONTH	Char	2		D2Q B9a: # months prior to start of HD
NUMTRANS	Num	8		DW2.M D 6d: Number of Transfusions recd
NWLSBNFT	Char	1	SNOYES.	D2Q F3: Not working: Lose benefits, cl
NWLSBNT2	Char	1	SNOYES.	DW2.PFUP E3: S.Work: Would lose Benefits
NWNOFLX	Char	1	SNOYES.	D2Q F3: Not working: Facility sched. i
NWNOFLX2	Char	1	SNOYES.	DW2.PFUP E3: S.Work: Dial. Not Flexible
NWNOJB	Char	1	SNOYES.	D2Q F3: Not working: No other job avai
NWNOJB2	Char	1	SNOYES.	DW2.PFUP E3: S.Work: No job available
NWNOND	Char	1	SNOYES.	D2Q F3: Not working: Did not want/need
NWNOND2	Char	1	SNOYES.	DW2.PFUP E3: S.Work: No Need/Want to wrk
NWOTHDT	Char	1	SNOYES.	D2Q F3: Not working: Needed for other
NWOTHDT2	Char	1	SNOYES.	DW2.PFUP E3: S.Work: Needed for other
NWRTRD	Char	1	SNOYES.	D2Q F3: Not working: I am retired
NWRTRD2	Char	1	SNOYES.	DW2.PFUP E3: Stopped Work: I am retired
NWTOOSK	Char	1	SNOYES.	D2Q F3: Not working: Too sick, too muc
NWTOOSK2	Char	1	SNOYES.	DW2.PFUP E3: Stopped Work: Too sick
NWTRD	Char	1	SNOYES.	D2Q F3: Not working: Job is too tiring
NWTRD2	Char	1	SNOYES.	DW2.PFUP E3: Stopped Work: Job too tire
NWTRTDM	Char	1	SNOYES.	D2Q F3: Not working: Dial trt is too d
NWTRTDM2	Char	1	SNOYES.	DW2.PFUP E3: S.Work: Dial too demanding
OCCUPAT	Char	2	SOCCUP.	DW2.M C 12: Occupation level before ESRD
ODCAPDHM	Char	1	SNOYES.	D2Q C 1: Treat opt disc: CAPD at home
ODDIALHM	Char	1	SNOYES.	D2Q C 1: Treat opt disc: HD at home
ODDIALUN	Char	1	SNOYES.	D2Q C 1: Treat opt disc: HD in dial unit
ODOTHER	Char	1	SNOYES.	D2Q C 1: Treat opt disc: other
ODPERCEN	Char	1	SNOYES.	D2Q C 1: Treat opt disc: PD at center
ODPERCYC	Char	1	SNOYES.	D2Q C 1: Treat opt disc: PD with cycl ma
ODTRANS	Char	1	SNOYES.	D2Q C 1: Treat opt disc: Transplant
OTHINS1	Char	1	SYESNO.	DW2.M A 9f: Other Insurance Mth bfore A6
OTHINS2	Char	1	SYESNO.	DW2.M A 9f: Other Insurance at/near A7
OTHTRMT	Char	40		D2Q C 1a Other treat disc, text
PAININT	Char	1	SEXTEN5A.	D2Q A22: Amt of pain interference w/ wo
PAININT2	Char	1	SEXTEN5A.	DW2.PFUP A22: Amt of pain interf. w/work
PCATHDAY	Char	2		DW2.M C 5o: day PD catheter
PCATHMTH	Char	2		DW2.M C 5o: mth PD catheter
PCATHYR	Char	2		DW2.M C 5o: yr PD catheter
PC_DIS	Char	1	SPDISD2W.	DW2.M B 1: Primary Cause of ESRD
PDCATH	Char	1		DW2.M C 6d: Type of PD cath on SSD

WAV2UPDT: Wave 2 Special Study Updated with USRDS Established ESRD Dates (continued)

Variable	Type	Length	Format	Comment
PDIAL2	Char	1		DW2.PFUP C: On Peritoneal Dialysis
PDIALTYP	Char	1	\$PDTYPE.	DW2.M C 6b: PD - Dialysis Type
PDLOCAT	Char	1	\$PERILOC.	DW2.M C 6a: PD - Dialysis Location
PD_BSSD	Char	1	\$YESNO.	DW2.M C 5n: PD before SSD
PEP	Char	1	\$TIME6A.	D2Q A23: Full of pep
PEP2	Char	1	\$TIME6A.	DW2.PFUP A23: Full of pep
PERHLP	Char	1	\$WHHLP2A.	D2Q D4: Person who helps w/ transport
PERICARD	Char	1	\$SUSPCT.	DW2.M B 6b: Pericarditis
PERITCOM	Char	1	\$AGREE6A.	D2Q C 8a: Peritonitis common comp
PERMVA_B	Char	1	\$YESNO.	DW2.M C 6h: Permanent VA before SSD
PHOSPH	Num	8		DW2.M D 4: Serum Phosphorous
PHYSREC	Char	1	\$IMPORT.	D2Q C 7e: Physician recommendation
PHYSVST2	Char	1		DW2.PFUP B2: Visits or talk w/dial. phys
PREBN_FU	Num	8		DW2.MFUP B3a: Pre Dialysis BUN
PREBUN_1	Num	8		DW2.M D 9b: BUN Predialysis SSDate
PREBUN_2	Num	8		DW2.M D 14b: BUN Predial of U. Collect.
PRECREAT	Num	8		DW2.M D 14b: Pre Creatinine
PREWT	Num	8		DW2.M D 9c: WGT predialysis
PREWT_1	Num	8		DW2.M C 4a: Weight at SSD / predial
PREWT_2	Num	8		DW2.M C 4a: Weight at SSD / predial 2nd
PREWT_3	Num	8		DW2.M C 4a: Weight at SSD/ predial 3rd
PREWT_FU	Num	8		DW2.MFUP B3a: Pre Dialysis Weight
PRE_DBP	Num	8		DW2.M C 4a: DBP at SSD / predialysis
PRE_DBP2	Num	8		DW2.M C 4a: DBP at SSD / predial 2nd
PRE_DBP3	Num	8		DW2.M C 4a: DBP at SSD / predial 3rd
PRE_KGLB	Char	1	\$LBKG.	DW2.MFUP B3a: Pre Weight in KG or LB
PRE_SBP	Num	8		DW2.M C 4a: SBP at SSD / predialysis
PRE_SBP2	Num	8		DW2.M C 4a: SBP at SSD / predial 2nd
PRE_SBP3	Num	8		DW2.M C 4a: SBP at SSD / predial 3rd
PRIVATE1	Char	1	\$YESNO.	DW2.M A 9b: Private month bfore A6
PRIVATE2	Char	1	\$YESNO.	DW2.M A 9b: Private at/near A7
PROVUSRD	Num	8	\$BEST22.	USRDS assigned provider ID
PRW_KGLB	Num	8		DW2.M C 4a: Weight predial Kg or Lb
PSTBN_FU	Num	8		DW2.MFUP B3b: Post Dialysis BUN
PSTBUN_1	Num	8		DW2.M D 9b: BUN Postdialysis SSDate
PSTBUN_2	Num	8		DW2.M D 14b: BUN pstdial of U. Collect.
PSTCREAT	Num	8		DW2.M D 14b: Post Creatinine
PSTWT	Num	8		DW2.M D 9c: WGT postdialysis
PSTWT_1	Num	8		DW2.M C 4b: Weight at SSD / postdial
PSTWT_2	Num	8		DW2.M C 4b: Weight at SSD / pstdial 2nd
PSTWT_3	Num	8		DW2.M C 4b: Weight at SSD/pstdial 3rd
PSTWT_FU	Num	8		DW2.MFUP B3b: Post Dialysis Weight
PST_DBP	Num	8		DW2.M C 4b: DBP at SSD / pstdial
PST_DBP2	Num	8		DW2.M C 4b: DBP at SSD / pstdial 2nd
PST_DBP3	Num	8		DW2.M C 4b: DBP at SSD /pstdial 3rd
PST_KGLB	Char	1	\$LBKG.	DW2.MFUP B3b: Post Weight in KG or LB
PST_SBP	Num	8		DW2.M C 4b: SBP at SSD / pstdial
PST_SBP2	Num	8		DW2.M C 4b: SBP at SSD / pstdial 2nd
PST_SBP3	Num	8		DW2.M C 4b: SBP at SSD /pstdial 3rd
PUBAGEN	Char	1	\$NOYES.	D2Q D5: Who pays: Public agency/charit
PULMED	Char	1	\$SUSPCT.	DW2.M B 6c: Pulmonary edema
PVD	Char	1	\$SUSPCT.	DW2.M B 5a: Peripheral Vascular Disease
QUALCARChar	1		\$GOOD5A.	D2Q F2: Feelings about quality of self-
QUALCAR2	Char	1	\$GOOD5A.	DW2.PFUP E2: Taking care of own Health
RCTSLOW	Char	1	\$TIME6A.	D2Q A42: React slowly to things
RCTSLOW2	Char	1	\$TIME6A.	DW2.PFUP A42: React slowly to things
REDTIM	Char	1	\$YESNO.	D2Q A13: Phys Hlth: Reduced time on wo
REDTIM2	Char	1	\$YESNO.	DW2.PFUP A13: PH: Reduced time on work
REDWRK	Char	1	\$YESNO.	D2Q A17: EP: Reduced time on work/acti
REDWRK2	Char	1	\$YESNO.	DW2.PFUP A17: EP: Reduced time on wrk
REST	Char	1	\$YESNO.	D2Q A68: Lie down more often to rest
REST2	Char	1	\$YESNO.	DW2.PFUP A68: Lie down more often, rest
REV1_DAY	Char	2		DW2.MFUP C6: 1st revision to 1PVA, Day
REV1_FDT	Num	8	\$DATE9.	DW2.MFUP C6: Dt 1st revision to 1PVA

WAV2UPDT: Wave 2 Special Study Updated with USRDS Established ESRD Dates (continued)

Variable	Type	Length	Format	Comment
REV1_MTH	Char	2		DW2.MFUP C6: 1st revision to 1PVA, Month
REV1_TYP	Char	1	SFUREVTY.	DW2.MFUP C6: 1st revision to 1PVA, Type
REV1_YR	Char	2		DW2.MFUP C6: 1st revision to 1PVA, Year
REV2_DAY	Char	2		DW2.MFUP C6: 2nd revision to 1PVA, Day
REV2_FDT	Num	8	DATE9.	DW2.MFUP C6: Dt 2nd revision to 2PVA
REV2_MTH	Char	2		DW2.MFUP C6: 2nd revision to 1PVA, Month
REV2_TYP	Char	1	SFUREVTY.	DW2.MFUP C6: 2nd revision to 1PVA, Type
REV2_YR	Char	2		DW2.MFUP C6: 2nd revision to 1PVA, year
SCHDCHG2	Char	1	SEXTEN5C.	DW2.PFUP E5b: Dial sched changed, work
SCHDINT2	Char	1	SEXTEN5C.	DW2.PFUP E5a: D.Sched not interfer work
SCHDNOT2	Char	1	SEXTEN5C.	DW2.PFUP E5c: No Dial Shift to allow wrk
SCHEDCHG	Char	1	SEXTEN5C.	D2Q F5b: Treatment schedule could chang
SCHEDINT	Char	1	SEXTEN5C.	D2Q F5a: Treatment interfere w/ work sc
SCHEDNOT	Char	1	SEXTEN5C.	D2Q F5c: No treatment schedule avail to
SCRED_FU	Num	8		DW2.MFUP B4b: End Serum Creatinine
SCRST_FU	Num	8		DW2.MFUP B4b: Start Serum Creatinine
SERCRET	Num	8		DW2.M C 7: Serum Creatinine
SER_ALB	Num	8		DW2.M D 10: Serum Albumin Predialysis
SER_ALUM	Num	8		DW2.M D 13: Serum Aluminum (random)
SER_BIC	Num	8		DW2.M D 5: Serum Bicarbonate
SER_CAL	Num	8		DW2.M D 3: Serum calcium, predialysis
SER_PTH	Num	8		DW2.M D 12: Serum intact PTH
SESSIONS	Num	8		DW2.M C 5c: Hemo - No. Sessions / week
SEXLF	Char	1	SEXTEN5B.	D2Q A65: Sex life
SEXLF2	Char	1	SEXTEN5B.	DW2.PFUP A65: Sex Life
SGDAY_FU	Char	2		DW2.MFUP C3: Day of Surgery 1st VAPerm
SGMTH_FU	Char	2		DW2.MFUP C3: Mth of Surgery 1st VAPerm
SGYR_FU	Char	2		DW2.MFUP C3: Year of Surgery 1st VAPerm
SHRTDIAL	Num	8		DW2.M C 5m: Treats shortnd by gt 10 min
SHRTRMT	Char	1	SCYCLER.	D2Q C14: # times cycler shortened treat
SHRTRMT2	Char	1	SCYCLER.	DW2.PFUP C6: # Cycler shortened trts
SICK	Char	1	STRUE5A.	D2Q A33: Get sick easier than others
SICK2	Char	1	STRUE5A.	DW2.PFUP A33: Get sick easier than other
SIGDAY	Char	2		D2Q CV: Day of signature
SIGDAY2	Char	2		DW2.PFUP : Day of signature
SIGMONTH	Char	2		D2Q CV: Month of signature
SIGMTH2	Char	2		DW2.PFUP : Month of signature
SIGNAT	Char	1		D2Q CV: Presence of signature
SIGNED	Char	1	SYESNO.	DW2.PFUP :Is consent form signed?
SIGN_FDT	Num	8	DATE9.	DW2.MFUP: Date of Signature
SIGYR	Char	2		D2Q CV: Year of signature
SIGYR2	Char	2		DW2.PFUP : Year of signature
SKIPDIAL	Num	8		DW2.M C 5l: Number of treats skipped
SLEEPLS	Char	1	SYESNO.	D2Q A70: Sleep less at night
SLEEPLS2	Char	1	SYESNO.	DW2.PFUP A70: Sleep less at Night
SLEEPQLT	Char	2	SQUAL10A.	D2Q A71: Quality of sleep-30 days
SLEEPQT2	Char	2	SQUAL10A.	DW2.PFUP A71: Quality of sleep, last mth
SMOKING	Char	1		DW2.M B 2: Smoking status
SOCIALZE	Char	1	SAGREE6A.	D2Q C 8j: Like to socialize w/oth pts/st
SOCINT	Char	1	SEXTEN5A.	D2Q A20: Amt of interference w/ social
SOCINT2	Char	1	SEXTEN5A.	DW2.PFUP A20: Amt. of interf. w/ social
SPANQ2	Char	1	SYESNO.	DW2.PFUP : Questionnaire in Spanish
SSDAY	Char	2		DW2.M : Study Start day
SSDAY1	Char	2		DW2.M A 7: Study Start day A6+60days
SSDAY_FU	Char	2		DW2.MFUP : Study Start Day
SSD_W2	Num	8	DATE9.	DW2.M A 7 Study start date
SSMTH	Char	2		DW2.M : Study Start month
SSMTH1	Char	2		DW2.M A 7: Study Start mth A6+60days
SSMTH_FU	Char	2		DW2.MFUP : Study Start Month
SSTMOD	Char	1		DW2.MFUP : Modality at Study Start
SST_FDT	Num	8	DATE9.	DW2.MFUP: Study Start Date
SSYR	Char	2		DW2.M : Study Start year
SSYR1	Char	2		DW2.M A 7: Study Start yr A6+60days
SSYR_FU	Char	2		DW2.MFUP : Study Start Year

WAV2UPDT: Wave 2 Special Study Updated with USRDS Established ESRD Dates (continued)

Variable	Type	Length	Format	Comment
STRESS	Char	1	\$EXTEN5B.	D2Q A64: Stress/worried by kidney disea
STRESS2	Char	1	\$EXTEN5B.	DW2.PFUP A64: Stress by Kidney Disease
SUBCLAV	Char	1	\$ACCTYPE.	DW2.M C 5k: Hemo - Any Subclavian
SUPPORT	Char	1	\$GOOD5B.	D2Q A73: Support from family/friends
SUPPORT2	Char	1	\$GOOD5B.	DW2.PFUP A73: Support from friend&fam.
SURGDAY	Char	2		DW2.M C 5j: day of Surgery for VA
SURGMTH	Char	2		DW2.M C 5j: mth of Surgery for VA
SURGYR	Char	2		DW2.M C 5j: yr of Surgery for VA
SURG_FDT	Num	8	DATE9.	DW2.MFUP C3: Dt of Surgery 1st permVA
S_BORN	Num	8	DATE9.	DW2.M Date of birth calculated
S_RACE	Char	1	\$RACEDMS.	DW2.M A 4: Race
S_SEX	Char	1	\$SEXFMT.	
S_ZIP	Char	5		DW2.M A 5: Patients Zipcode
THRSU_FU	Num	8		DW2.MFUP B4a: Total hours of urine Coll.
THRS_UC	Num	8		DW2.M D 14a: Total Hrs of Urine Collect.
TIA	Char	1	\$SUSPCT.	DW2.M B 4b: Transient Ischemic attacks
TIME	Char	1	\$TRUE5A.	D2Q A38: Too much time spent on kidney
TIME2	Char	1	\$TRUE5A.	DW2.PFUP A38: Too much time w/Kidney Dis
TIRED	Char	1	\$TIME6A.	D2Q A31: Feel tired
TIRED2	Char	1	\$TIME6A.	DW2.PFUP A31: Fell Tired
TOGETH	Char	1	\$GOOD5B.	D2Q A72: Together w/ family & friends
TOGETH2	Char	1	\$GOOD5B.	DW2.PFUP A72: Togetherness, friends&fam.
TOOWEAK	Char	1	\$NOYES.	D2Q D3: Too weak/sick after dialysis
TRANDIS2	Char	1	\$YESNON.	DW2.PFUP C1: Transplant option discussed
TRANEVL2	Char	1	\$YESNON.	DW2.PFUP C2: Evaluated for a transplant
TRANPRB1	Char	1	\$YESNO.	D2Q D6a: Short treatment due to transpo
TRANPRB2	Char	1	\$YESNO.	D2Q D6b: Skip treatment due to transpor
TRANS	Char	1	\$YESNO.	DW2.M D 6c: Receive Transfusion / 2mo
TRANSDIS	Char	1	\$YESNON.	D2Q C 4: Transplant option discussed
TRANSEVL	Char	1	\$YESNON.	D2Q C 5: Evaluated for Transplant
TREATMO	Char	1	\$HDPD.	DW2.M : Modality of Treatment H/PD
TRIGLY	Num	8		DW2.M D 11d: Triglycerides
TRTSCHED	Char	1	\$IMPORT.	D2Q C 7b: Conven. of treat sched.
TRVABL	Char	1	\$EXTEN5B.	D2Q A62: Ability to travel
TRVABL2	Char	1	\$EXTEN5B.	DW2.PFUP A62: Ability to travel
UCEDDT_D	Char	2		DW2.M D 14a: Urine Collct. end dt day
UCEDDT_M	Char	2		DW2.M D 14a: Urine Collct. end dt mth
UCEDTMDY	Char	1		DW2.M D 14a: Urine Collct. end AM/PM
UCEDTM_H	Char	2		DW2.M D 14a: Urine Collct. end tm. Hr
UCEDTM_M	Char	2		DW2.M D 14a: Urine Collct. end tm. min
UCSTDT_D	Char	2		DW2.M D 14a: Urine Collct. st. dt. Day
UCSTDT_M	Char	2		DW2.M D 14a: Urine Collct. st. Dt Month
UCSTTMDY	Char	1		DW2.M D 14a: Urine Collct. st. AM/PM
UCSTTM_H	Char	2		DW2.M D 14a: Urine Collct. st. tm. Hr
UCSTTM_M	Char	2		DW2.M D 14a: Urine Collct. st. tm. Min
UNDNOUR	Char	1	\$SUSPCT.	DW2.M C 3: Undernourished
UNIT_TYP	Char	1	\$FUNITYP.	DW2.MFUP B4b: Lab Values unit type
UREAVAL	Num	8		DW2.M D 9: Urea or BUN
URINE	Char	1	\$FUURINE.	DW2.MFUP B2: Approx. urine output
URINE2	Char	1		DW2.PFUP B3: How much urine in 24 hours
URINE_CR	Num	8		DW2.M D 14b: Urine Creatinine
URINE_VM	Num	8		DW2.M D 14b: Urine Volume
URNCR_FU	Num	8		DW2.MFUP B4b: Urine Creatinine
URNEDDAY	Char	2		DW2.MFUP B4a: Urine Collection End Day
URNEDMTH	Char	2		DW2.MFUP B4a: Urine Collection End Mth
URNEDTDY	Char	1		DW2.MFUP B4a: Urine Coll. End time day
URNEDTHR	Num	8		DW2.MFUP B4a: Urine Coll. End Time (hr)
URNEDTMN	Num	8		DW2.MFUP B4a: Urine Coll. End Time (min)
URNEDYR	Char	2		DW2.MFUP B4a: Urine Collection End Yr
URNE_FDT	Num	8	DATE9.	DW2.MFUP B4: Urine Collection End Dt
URNNT_FU	Num	8		DW2.MFUP B4b: Urine Urea Nitrogen
URNSTDAY	Char	2		DW2.MFUP B4a: Urine Collection St. Day
URNSTMTH	Char	2		DW2.MFUP B4a: Urine Collection St. Mth
URNSTTDY	Char	1		DW2.MFUP B4a: Urine Coll. Start time day

WAV2UPDT: Wave 2 Special Study Updated with USRDS Established ESRD Dates (continued)

Variable	Type	Length	Format	Comment
URNSTTHR	Num	8		DW2.MFUP B4a: Urine Coll. Start time (hr
URNSTTMN	Num	8		DW2.MFUP B4a: Urine Coll. Start time(min
URNSTYR	Char	2		DW2.MFUP B4a: Urine Collection St. Year
URNS_FDT	Num	8	DATE9.	DW2.MFUP B4: Urine Collection St DT
URNVM_FU	Num	8		DW2.MFUP B4b: Urine Volume
UUNITROG	Num	8		DW2.M D 14b: Urine Urea Nitrogen
U_UNITS	Num	8		DW2.M D 14b: Urine Units
VA1PM_FU	Char	1	SFUVATYP.	DW2.MFUP C2: 1st perm. VA type attempted
VADAY_FU	Char	2		DW2.MFUP C4: Day this 1st PVA was used
VAL_STAT	Num	8		Data validation status
VAMTH_FU	Char	2		DW2.MFUP C4: Month this 1st PVA was used
VAPRM_FU	Char	1	SYESNO.	DW2.MFUP C1: VA Perm ever attempted
VAST_FDT	Num	8	DATE9.	DW2.MFUP C4: Dt 1st Perm VA was used
VAYR_FU	Char	2		DW2.MFUP C4: Year this 1st PVA was used
VA_1	Char	1	SYESNO.	DW2.M A 9e: VA mon before date A6
VA_2	Char	1	SYESNO.	DW2.M A 9e: VA at/near date A7
VA_REVIS	Char	1	SYNUFMT.	DW2.MFUP C6: Any revisions to 1st VAPerm
VIGACT	Char	1	SLIMIT3A.	D2Q A 3 Vigorous acts: running, heavy
VIGACT2	Char	1	SLIMIT3A.	DW2.PFUP A3: Vigorous activities
VITAMN_D	Char	1	SYESNO.	DW2.M D 16: Injectable Vit.D at SSD
VOLDRAIN	Num	8		DW2.M C 7: Total Volume drained
VOMIT	Char	1	STIMBF4A.	D2Q B7: Onset of nausea/vomiting
WAGERATE	Num	8		D2Q E1: Wage rate
WAGERT2	Num	8		DW2.PFUP D2: Hourly Wage Rate
WAGEST	Num	8		D2Q E2: Estimated wage rate if not empl
WAGEST2	Num	8		DW2.PFUP D3: Est. Hourly Wage Rate
WAITLIST	Char	1	SYESNON.	D2Q C 6: On a Transplant waitlist
WAITLST2	Char	1	SYESNON.	DW2.PFUP C3: On a transplant waitlist
WALKBLK	Char	1	SLIMIT3A.	D2Q A11: Walking, 1 block
WALKBLK2	Char	1	SLIMIT3A.	DW2.PFUP A11: Walking 1 block
WALKMLT	Char	1	SLIMIT3A.	D2Q A 9 Walking, > 1 mile
WALKMLT2	Char	1	SLIMIT3A.	DW2.PFUP A9: Walking, >1 Mile
WALKSEV	Char	1	SLIMIT3A.	D2Q A10: Walking, several blocks
WALKSEV2	Char	1	SLIMIT3A.	DW2.PFUP A10: Walking several blocks
WAS1VAP	Char	1	SYESNO.	DW2.MFUP C4: Was this 1st PVA ever used
WHNSAW	Char	1	STIMBF3A.	D2Q B3: When patient first saw nephrolo
WHNTLD	Char	1	STIMBF1A.	D2Q B1: When told of abnormal kidney fu
WHOGAVE	Char	1	SWHOHELP.	D2Q F7: Who helped complete form
WHOGAVE2	Char	1	SWHOHELP.	DW2.PFUP E7: Who Helped Complete Form
WORKING2	Char	1		DW2.PFUP D1: Working Status
WORNOUT	Char	1	STIME6A.	D2Q A29: Worn out
WORNOUT2	Char	1	STIME6A.	DW2.PFUP A29: Worn Out
WPOTHER	Char	1	SNOYES.	D2Q D5: Who pays: Other
WRKABL	Char	1	SEXTEN5B.	D2Q A61: Ability to work around house
WRKABL2	Char	1	SEXTEN5B.	DW2.PFUP A61: Ability to work in house
WRKCAR	Char	1	SYESNO.	D2Q A19: EP: Did not work as carefully
WRKCAR2	Char	1	SYESNO.	DW2.PFUP A19: EP: Didnt work as carefull
WRKFT	Char	1	SYESNO.	D2Q A74b: Able to work full-time
WRKFT2	Char	1	SYESNO.	DW2.PFUP A74b: Able to work full-time
WRKLMT1	Char	1	SYESNO.	D2Q E3: Work type limited due to health
WRKLMT2	Char	1	SYESNO.	D2Q E4: Work amt limited due to health
WRKPT	Char	1	SYESNO.	D2Q A74a: Able to work part-time
WRKPT2	Char	1	SYESNO.	DW2.PFUP A74a: Able to work part-time
XRAY	Char	1	SYESNO.	DW2.M D 1: Cardiomegaly by X-ray
YEAR	Num	8		DW2.M A 7c year of study start date

CORE CD-4**MEDEVID: Medical Evidence form**

Contains full data from the 1995 and 2005 versions of the CMS Medical Evidence Report (CMS-2728). This is the source of data regarding primary cause of renal disease and start date of chronic renal dialysis.

Variable	Type	Length	Format	Comment
ACCESSTYPE	Num	8	ACCESS	(18.d) What access was used on first outpatient dialysis
AIDS	Char	1	SYNCFMT	AIDS (Q16r)
ALBUM	Num	8		(19.a.1) Serum Albumin Value (g/dl).
ALBUMDT	Num	8	MMDDYY	(19.a.1.1) Serum Albumin Date
ALBUMLM	Num	8		(19.a.2) Serum Albumin Lower Limit Value
ALCOH	Char	1	SYNUFMT	Alcohol dependence (Q16o)
ALGCON	Char	1		Medical Evidence Algorithm Conflict
APDXTR	Char	1	SYNUFMT	Bene Approved for Dial Train
APTXPR	Char	1	SYNUFMT	Bene Approved for Pre-TX Services
AVFMATURING	Num	8		(18.d.1) If not AVF, then: Is maturing AVF present?
AVGMATURING	Num	8		(18.d.2) If not AVF, then: Is maturing graft present?
BMI	Num	8		Body Mass Index - Calculated
BORN	Num	8	MMDDYY	Date of Birth (USRDS)
BUN	Num	8		BUN (Q18g)
BUNDAT	Num	8	MMDDYY	BUN date (Q18g)
CANCER	Char	1	SYNUFMT	Cancer (Q16n)
CARARR	Char	1	SYNUFMT	Cardiac arrest (Q16d)
CARFAIL	Char	1	SYNUFMT	Congestive heart failure (16a)
COMO_ALCHO	Char	1		(17.p) Co-Morbid P: Alcohol dependence.
COMO_AMP	Char	1		(17.g) Co-Morbid G: Amputation.
COMO_ASHD	Char	1		(17.b) Co-Morbid B: Atherosclerotic heart disease ASHD.
COMO_CANC	Char	1		(17.n) Co-Morbid N: Malignant neoplasm, Cancer.
COMO_CHF	Char	1		(17.a) Co-Morbid A: Congestive heart failure.
COMO_COPD	Char	1		(17.l) Co-Morbid L: Chronic obstructive pulmonary disease.
COMO_CVATIA	Char	1		(17.d) Co-Morbid D: Cerebrovascular disease, CVA, TIA*.
COMO_DM_INS	Char	1		(17.h) Co-Morbid H: Diabetes, currently on insulin.
COMO_DM_NOMEDS	Char	1		(17.j) Co-Morbid J: Diabetes, without medications.
COMO_DM_ORAL	Char	1		(17.i) Co-Morbid I: Diabetes, on oral medications.
COMO_DM_RET	Char	1		(17.k) Co-Morbid K: Diabetic retinopathy.
COMO_DRUG	Char	1		(17.q) Co-Morbid Q: Drug dependence*.
COMO_HTN	Char	1		(17.f) Co-Morbid F: History of hypertension.
COMO_INAMB	Char	1		(17.r) Co-Morbid R: Inability to ambulate.
COMO_INST	Char	1		(17.u) Co-Morbid U: Institutionalized.
COMO_INST_AL	Char	1		(17.u1) Co-Morbid U1: Institutionalized - Assisted Living.
COMO_INST_NURS	Char	1		(17.u2) Co-Morbid U2: Institutionalized - Nursing Home.
COMO_INST_OTH	Char	1		(17.u3) Co-Morbid U3: Institutionalized - Other Institution.
COMO_INTRANS	Char	1		(17.s) Co-Morbid S: Inability to transfer.
COMO_NEEDASST	Char	1		(17.t) Co-Morbid T: Needs assistance with daily activities.
COMO_NONE	Char	1		(17.w) Co-Morbid W: None.
COMO_NRC	Char	1		(17.v) Co-Morbid V: Non-renal congenital abnormality.
COMO_OTHCARD	Char	1		(17.c) Co-Morbid C: Other cardiac disease.
COMO_PVD	Char	1		(17.e) Co-Morbid E: Peripheral vascular disease*.
COMO_TOBAC	Char	1		(17.m) Co-Morbid M: Tobacco use (current smoker).
COMO_TOXNEPH	Char	1		(17.o) Co-Morbid O: Toxic nephropathy.
COMORBID	Char	49		(17.) Concatenates the patients comorbidity factors
CRDATE	Num	8	MMDDYY	(CMS) Date this form was entered into the system.
CREA	Num	8		Creatinine clearance (Q18f)
CREADAT	Num	8	MMDDYY	Creatinine clearance date (Q18f)
CTDATE	Num	8	MMDDYY	(50.) Supervising Physician Signature Date.
CURTSIT	Char	1	SMESET	(37) Current Dialysis Treatment Site.
CURTXS	Char	1	SMETXST	(34.) Transplant Status.
CVA	Char	1	SYNUFMT	Cerebrovascular disease, CVA TIA (Q16g)
DECBAS	Char	1		(CMS) Decision regarding how the patient was confirmed as ESRD.
DIABINS	Char	1	SYNUFMT	Diabetes, currently on insulin (Q16k)
DIABPRIM	Char	1	SYNUFMT	Diabetes, (primary or contrib.) (Q16j)
DIALDAT	Num	8	MMDDYY	(24.) Date Regular Dialysis Began.
DIALEDT	Num	8	MMDDYY	(CMS) Date patient stopped dialysis therapy.
DIALRDAT	Num	8	MMDDYY	(36.) Dialysis Return date after a transplant rejection.
DIALSET	Char	1	SMESET	(22.) Dialysis Setting.
DIALTYP	Char	1	SMEDIATP	(23.) Dialysis Type.
DIED	Num	8	MMDDYY	(CMS) Date of patients death.

MEDEVID: Medical Evidence form (continued)

Variable	Type	Length	Format	Comment
DIETCARE	Num	8		(18.c) Was patient under care of kidney dietitian?
DIETCARERANGE	Num	8	RANGE	(18.c.1) Was patient under care of kidney dietitian? If Yes,6-12 or >12 months
DONORTYPE	Num	8	DONORTYP	(35.) Type of Donor
DRUG	Char	1	SYNUFMT	Drug dependence (Q16p)
DVA	Char	1	SYNUFMT	DVA coverage (Q10b)
DYSRHYT	Char	1	SYNUFMT	Cardiac dysrhythmia (Q16e)
EDITIND	Char	1		Data Edit Errors
EMPCUR	Char	1	SEMPSTAT	(16.) Summarizes the patients employment status at time of 2728 filing
EMPGRP	Char	1	SYNUFMT	Employer group health insurance (Q10d)
EMPPREV	Char	1	SEMPSTAT	(16.1) Summarizes the patients prior employment status
EPO	Char	1	SYNUFMT	(18.a) Erythropoietin(EPO) was administered prior to dialysis or transplant.
EPORANGE	Num	8	RANGE	(18.a.1) Did patient receive EPO or equivalent? If Yes,6-12 or >12 months
ESRD CER	Char	1	SYNUFMT	Network confirmed as ESRD
ETHN	Char	1	SMEETH	(8.) Patients ethnicity.
FACSTD	Num	8	MMDDYY	(25.) Date Patient Started at 2728 Provider.
FORMVERSION	Num	8		(CMS) Form Version: Pre-1995, 1995, 2005
GFR	Num	8		GFR calculated (Ab. Levey or Schwartz)
HBA1C	Num	8		(19.d) HbA1c value (%)
HBA1C DATE	Num	8	MMDDYY	(19.d.1) HbA1c Date
HECRDT	Num	8	MMDDYY	Hematocrit date (Q18a)
HECRIT	Num	8		Hematocrit (Q18a)
HEGLB	Num	8		(19.c) Hemoglobin Value (g/dl).
HEGLBDT	Num	8	MMDDYY	(19.c.1) Hemoglobin Date.
HEIGHT	Num	8		(13.) Patient Height. (cm)
HEMOHOURS	Num	8		(23.2) Primary Type of Dialysis: Hemodialysis- (Hours per session)
HEMOSESSIONS	Num	8		(23.1) Primary Type of Dialysis: Hemodialysis- (Sessions per week)
HIV	Char	1	SYNCFMT	HIV positive status (Q16q)
HYP ER	Char	1	SYNUFMT	Hypertension (Q16i)
IHD	Char	1	SYNUFMT	Ischemic heart disease (Q16b)
INC_AGE	Num	8		Age at incidence (ESRD date from profile)
INHOSP	Char	1		(CMS) Was patient admitted prior to the transplant.
LABMETHOD	Num	8		(19.a.3) Serum Albumin Lower Limit: Lab Method Used (BCG or BCP)
LIPIDPROFILEHDL DATE	Num	8	MMDDYY	(19.e.3.1) Lipid Profile HDL Date
LIPIDPROFILELDL DATE	Num	8	MMDDYY	(19.e.2.1) Lipid Profile LDL Date
LIPIDPROFILETC	Num	8		(19.e.1) Lipid Profile TC value (mg/dL)
LIPIDPROFILETC DATE	Num	8	MMDDYY	(19.e.1.1) Lipid Profile TC Date
LIPIDPROFILETG	Num	8		(19.e.4) Lipid Profile TG value (mg/dL)
LIPIDPROFILETG DATE	Num	8	MMDDYY	(19.e.4.1) Lipid Profile TG Date
LIPIDPROFILHDL	Num	8		(19.e.3) Lipid Profile HDL value (mg/dL)
LIPIDPROFILLDL	Num	8		(19.e.2) Lipid Profile LDL value (mg/dL)
MDCD	Char	1	SYNUFMT	Medicaid coverage (Q10a)
MDCR	Char	1	SYNUFMT	Medicare coverage (Q10c)
MDCRCOD	Char	1	SYNUFMT	(11.) Patient is applying for ESRD Medicare.
MEDCOV_ADVANTAGE	Char	1		(12.) Patient is currently entitled to Federal Medicare Advantage benefits.
MEDCOV_GROUP	Char	1		(12.) Patient receives medical benefits through an employer group health plan.
MEDCOV_MEDDVA	Char	1		(12.) Patient is receiving medical care from a Department of Veterans Affairs facility.
MEDCOV_MEDICAID	Char	1		(12.) Patient is receiving state Medicaid benefits.
MEDCOV_MEDICARE	Char	1		(12.) Patient is currently entitled to Federal Medicare benefits.
MEDCOV_NONE	Char	1		(12.) Patient has no medical insurance plan.
MEDCOV_OTHER	Char	1		(12.) Patient is receiving other medical benefits.
MEDICALCOVERAGE	Char	13		(12.) Concatenates the patients Medical Coverage
MESEQ	Num	8		Number of Med Evidence forms filed
MI	Char	1	SYNUFMT	Myocardial infarction (Q16c)
NEPHCARE	Num	8		(18.b) Was patient under care of a nephrologist?
NEPHCARERANGE	Num	8	RANGE	(18.b.1) Was patient under care of a nephrologist? If Yes,6-12 or >12 months
NETADT	Num	8	MMDDYY	Network Action Date
NETWORK	Char	2	SNETFMTN	(55 - 1995 Form) Network Number.
NOAMBUL	Char	1	SYNUFMT	Inability to ambulate (Q16s)
NOCOV	Char	1	SYNUFMT	No medical insurance (Q10f)
NOTRANS	Char	1	SYNUFMT	Inability to transfer (Q16t)
OTHC OV	Char	1	SYNUFMT	Other medical insurance (Q10e)
PATINFORMED	Num	8		(26.) Has patient been informed of kidney transplant options?
PATNOTINFORMEDREASON	Char	10	SPATNOTI	(27.) Concatenates reason patient was NOT informed of transplant options
PATSIGN	Num	8	MMDDYY	(55.) Patient Signature Date.

MEDEVID: Medical Evidence form (continued)

Variable	Type	Length	Format	Comment
PATTXOP_DECLINE	Char	1		(27.) Patient NOT informed of TX options: Patient declines information
PATTXOP_MEDUNFIT	Char	1		(27.) Patient NOT informed of TX options: Medically unfit
PATTXOP_OTHER	Char	1		(27.) Patient NOT informed of TX options: Other
PATTXOP_PHYSUNFIT	Char	1		(27.) Patient NOT informed of TX options: Psychologically unfit
PATTXOP_UNASSESSED	Char	1		(27.) Patient NOT informed of TX options: Patient has not been assessed
PATTXOP_UNsutAGE	Char	1		(27.) Patient NOT informed of TX options: Unsuitable due to age
PDIS	Char	6	\$DIAG	(15.) Primary Cause of Renal Failure
PERICAR	Char	1	SYNUFMT	Pericarditis (Q16f)
PULMON	Char	1	SYNUFMT	Chronic obstruc pulmon disease (Q16l)
PVASC	Char	1	SYNUFMT	Periperal vascular disease (Q16h)
RACE	Char	9	\$MERACE	(10.) Patients race.
RACEC	Char	9		(10.) Contanation of Patients race.
SERCR	Num	8		(19.b) Serum Creatine Value (mg/dl).
SERCRDT	Num	8	MMDDYY	(19.b.1) Serum Creatine Date.
SEX	Char	1	\$MESEX	(7.) Patients gender.
SMOKE	Char	1	SYNUFMT	Tobacco use (Q16m)
SUB_CODE	Char	3		(CMS) Sub race code as assigned by each Network.
TDATE	Num	8	MMDDYY	(28.) Date of most recent transplant.
TRAINSET	Num	8	TRAINSET	(41.ab) Hemodialysis Training Setting: Home or Center
TRCERT	Char	1		(42.) Patient has/will complete training.
TRNEND	Num	8	MMDDYY	(43.) Dialysis Training End Date.
TRSTDAT	Num	8	MMDDYY	(40.) Dialysis Training Begin Date.
TXADMDT	Num	8	MMDDYY	(31.) Date patient entered prep hospital.
TYPE2728	Num	8	FORMTYPE	(A.) This Form is: Initial, Re-entitlement, or Supplemental
TYPTRN	Char	1	\$MEDIATP	(41.) Self Dialysis Training Type.
UREA	Num	8		Urea (Q18h)
UREADT	Num	8	MMDDYY	Urea date (Q18h)
USRDS_ID	Num	8	BEST	USRDS_ID
WEIGHT	Num	8		(14.) Patient Weight. (kg)

TXUNOS_KI: Kidney Transplant - UNOS (continued)

Variable	Type	Length	Format	Comment
CELL_SRC_POS_XMAT1	Num	8	TGCELSRC	RHS: Positive Xmatch row 1//Target:
CELL_SRC_POS_XMAT2	Num	8	TGCELSRC	RHS: Positive Xmatch row 2//Target:
CELL_SRC_POS_XMAT3	Num	8	TGCELSRC	RHS: Positive Xmatch row 3//Target:
CELL_SRC_POS_XMAT4	Num	8	TGCELSRC	RHS: Positive Xmatch row 4//Target:
CELL_SRC_POS_XMAT5	Num	8	TGCELSRC	RHS: Positive Xmatch row 5//Target:
CELL_TY_POS_XMAT1	Num	8	CELL_TY	RHS: Positive Xmatch row 1//Cell Type:
CELL_TY_POS_XMAT2	Num	8	CELL_TY	RHS: Positive Xmatch row 2//Cell Type:
CELL_TY_POS_XMAT3	Num	8	CELL_TY	RHS: Positive Xmatch row 3//Cell Type:
CELL_TY_POS_XMAT4	Num	8	CELL_TY	RHS: Positive Xmatch row 4//Cell Type:
CELL_TY_POS_XMAT5	Num	8	CELL_TY	RHS: Positive Xmatch row 5//Cell Type:
CLAMP_TM_I	Char	1	\$TRIND	CDR: Clamp Time Status //ST=
CLAMP_TM_ZONE	Num	8	TIMEZONE	CDR: Clamp Time Zone:
CMV	Char	2	\$SCREEN	KIR: CMV_READONLY (PRE-UNET CMV VALUE)
CMV_CLINICAL	Char	2	\$SCREEN	KIR: CMV_clinical
CMV_CULTURE	Char	2	\$SCREEN	KIR: CMV_culture
CMV_NUCLEIC	Char	2	\$SCREEN	KIR: CMV_nucleic
CMV_YN	Char	1	\$YNUNK	KIR: CMV
CMVIGG	Char	2	\$SCREEN	KIR: TRR CMV IGG
CMVIGM	Char	2	\$SCREEN	KIR: TRR CMV IGM
CODOTH	Char	50	\$	CDR: Cause of Death //Specify:
COLD_ISCH_PUMP_KI_LT	Num	8		KIR: cold_isch_pump_ki_lt
COLD_ISCH_PUMP_KI_LT_I	Char	1	\$TRIND	KIR: cold_isch_pump_ki_lt_i
COLD_ISCH_PUMP_KI_RT	Num	8		KIR: cold_isch_pump_ki_rt
COLD_ISCH_PUMP_KI_RT_I	Char	1	\$TRIND	KIR: cold_isch_pump_ki_rt_i
CONSENT_ATTORNEY	Char	1		
CONSENT_DOC_MECH_OSTXT	Char	50	\$	CDR: Other Consent Mechanism //Other Specify
CONSENT_DON_CARD	Char	1		
CONSENT_DON_REGIS	Char	1		
CONSENT_DRIVE_LIC	Char	1		
CONSENT_PX_WRIT_DOC	Char	1	\$YNUNK	CDR: Was the consent based solely on this documentation:
CONSENT_TIME	Char	29	\$	CDR: Time consent obtained for first organ:
CONSENT_WRIT_DOC_INTENT	Char	1	\$YNUNK	CDR: Did the patient have written documentation of their intent to be a donor:
CONTIN_COCAINE	Char	1	\$YNUNK	CDR: Cocaine Use //AND continued in last six months:
CONTROLLED	Char	1	\$YNUNK	CDR: If Yes, Controlled:
CONVERT_OPEN_KI	Char	1	\$YNUNK	LDR: convert_open_ki
CR_PRE	Num	8		LDR: DON KIDNEY PREOPERATIVE CREATINE
CR_PREI	Char	1	\$TRIND	LDR: DON KIDNEY PREOPERATIVE CREATINEE/STATUS
CREATDEC	Char	1	\$YNUNK	KIR: TRR CREATININE DECLINE BY 25% OR MORE IN FIRST 24 HOUR
CRSMATCH_DONE_PERIOD	Char	1	\$YNUNK	RHS: crsmatch_done_period
CTR_TY	Char	3	\$	KIR: TRR RECIPIENT TX CENTER TYPE
CVASCR	Char	1	\$YNUNK	TCR_KI: TCR SYMPTOMATIC CEREBROVASCULAR DISEASE AT LISTING
D_F_CD	Char	4	\$	LDR: DON DONOR WORKUP FACILITY
D_F_TY	Char	3	\$	LDR: DON DONOR WORKUP FACILITY
DA1	Char	5		USRDS: DONOR HLA TYPING A(1)
DA2	Char	5		USRDS: DONOR HLA TYPING A(2)
DA1D	Char	8		DHS: HLA Typing A(1)
DA1R	Char	8		RHS: Donor HLA Retyping A(1)
DA2D	Char	8		DHS: HLA Typing A(2)
DA2R	Char	8		RHS: Donor HLA Retyping A(2)
DABO	Char	3	\$	CDR: ABO Blood Group:
DAGE	Num	8		CDR: Age:
DANCONV	Char	1	\$YNUNK	CDR: Anticonvulsants:
DANHYP	Char	1	\$YNUNK	CDR: Antihypertensives:
DANTHBC	Char	2	\$SCREEN	CDR: Anti-HBC:
DANTHCV	Char	2	\$SCREEN	CDR: Anti-HCV:
DB1	Char	5		USRDS: DONOR HLA TYPING B(1)
DB2	Char	5		USRDS: DONOR HLA TYPING B(2)
DB1D	Char	8		DHS: HLA Typing B(1)
DB1R	Char	8		RHS: Donor HLA Retyping B(1)
DB2D	Char	8		DHS: HLA Typing B(2)
DB2R	Char	8		RHS: Donor HLA Retyping B(2)
DBL_ENB_KIDISCD	Num	8	DISCD_CD	CDR: discard_cd
DBL_ENB_KIDISCDTXT	Char	50	\$	CDR: discard_cd_ostxt
DBL_ENB_KITXT	Char	50	\$	CDR: reason_ostxt

TXUNOS_KI: Kidney Transplant - UNOS (continued)

Variable	Type	Length	Format	Comment
DBLDINF	Char	1		
DBORN	Num	8	MMDDYY	CDR: DOB: Donor Date of Birth
DBUN	Num	8		CDR: BUN:
DBUNST	Char	1	STRIND	CDR: BUN Status //ST=
DBW4D	Num	8	WKGRPHLA	DHS: DON BW4
DBW4R	Num	8	WKGRPHLA	RHS: RH BW4
DBW6D	Num	8	WKGRPHLA	DHS: DON BW6
DBW6R	Num	8	WKGRPHLA	RHS: RH BW6
DCANCER	Char	50	\$	CDR: History of Cancer //Specify:
DCDATE	Num	8	MMDDYY	KIR: TRR DATE OF DISCHARGE FROM TX CENTER
DCDS_COMMENT	Char	255	\$	LDR: cds_comment
DCITY	Char	20	\$	CDR: Home City:
DCITZ	Num	8	CITIZEN	CDR: Citizenship:
DCMV	Char	2	SSCREEN	CDR: Anti-CMV:
DCMV_CLINICAL	Char	2	SSCREEN	LDR: CMV_clinical
DCMV_CULTURE	Char	2	SSCREEN	LDR: CMV_culture
DCMV_IGG	Char	2	SSCREEN	LDR: DON CMV IGG
DCMV_IGM	Char	2	SSCREEN	LDR: DON CMV IGM
DCMV_NUCLEIC	Char	2	SSCREEN	LDR: CMV_nucleic
DCMV_YN	Char	1	\$	LDR: DON (PRE UNET CMV VALUE)
DCNFREE	Num	8		CDR: Cancer Free Interval:
DCNTRY	Char	3	SCTRY	CDR: Home Country:
DCOD	Num	8	DON_COD	CDR: Cause of Death:
DCONCIG	Char	1	SYNUNK	CDR: Cigarette Use //AND continued in last six months:
DCORCOOL	Char	1	SYNUNK	CDR: If Yes, Core Cooling Used:
DCOTDRUG	Char	1	SYNUNK	CDR: Other Drug Use //AND continued in last six months:
DCREAT	Num	8		CDR: Serum Creatinine:
DCREST	Char	1	STRIND	CDR: Serum Creatinine Status //ST=
DCW1D	Num	8	CWHLA	DHS: DON CW (1)
DCW1R	Num	8	CWHLA	RHS: RH CW (1)
DCW2D	Num	8	CWHLA	DHS: DON CW (2)
DCW2R	Num	8	CWHLA	RHS: RH CW (2)
DDAVP	Char	1	SYNUNK	CDR: DDAVP:
DDCLMPDT	Num	8	MMDDYY	CDR: Clamp Date
DDCLMPTM	Char	10		CDR: Clamp Time
DDIET	Char	1	SYNUNK	CDR: Diet:
DDIUR	Char	1	SYNUNK	CDR: Diuretics:
DDOD	Num	8	MMDDYY	LDR: Donor Date of Death
DDP1D	Num	8	DPHLA	DHS: DON DPW (1)
DDP2D	Num	8	DPHLA	DHS: DON DPW (2)
DDPW1R	Num	8	DPHLA	RHS: RH DPW (1)
DDPW2R	Num	8	DPHLA	RHS: RH DPW (2)
DDQ1D	Num	8	DQHHLA	DHS: DON DQ (1)
DDQ2D	Num	8	DQHHLA	DHS: DON DQ (2)
DDQW1R	Num	8	DQHHLA	RHS: RH DQ (1)
DDQW2R	Num	8	DQHHLA	RHS: RH DQ (2)
DDR1	Char	5		USRDS: DONOR HLA TYPING DR(1)
DDR2	Char	5		USRDS: DONOR HLA TYPING DR(2)
DDR1D	Char	8	SDRLOCUS	DHS: HLA Typing DR(1)
DDR1R	Char	8	SDRLOCUS	RHS: Donor HLA Retyping DR(1)
DDR2D	Char	8	SDRLOCUS	DHS: HLA Typing DR(2)
DDR2R	Char	8	SDRLOCUS	RHS: Donor HLA Retyping DR(2)
DDR51D	Num	8	WKGRPHLA	DHS: DON DR51
DDR52D	Num	8	WKGRPHLA	DHS: DON DR52
DDR53D	Num	8	WKGRPHLA	DHS: DON DR53
DDR51R	Num	8	WKGRPHLA	RHS: RH DR51
DDR52R	Num	8	WKGRPHLA	RHS: RH DR52
DDR53R	Num	8	WKGRPHLA	RHS: RH DR53
DEBV	Char	1	SYNUNK	LDR: EBV
DEBV_CLINICAL	Char	2	SYNUNK	LDR: EBV_clinical
DEPSTDNA	Char	2	SSCREEN	LDR: EBV_DNA
DEPSTIGG	Char	2	SSCREEN	LDR: EBV_IgG
DEPSTIGM	Char	2	SSCREEN	LDR: EBV_IgM
DEXCNCR	Char	1	SYNUNK	CDR: Extracranial:
DFUNCSTAT	Num	8		LDR: func_stat
DGN2L	Num	8	PA_DGN	TCR_KP: TCR SECONDARY DIAGNOSIS FOR LIVER/ALSO PRIMARY PANCREAS DIAGNOSIS FOR KP LISTINGS

TXUNOS_KI: Kidney Transplant - UNOS (continued)

Variable	Type	Length	Format	Comment
DGN2LTX	Char	50	\$	TCR_KP: TCR SECONDARY DIAGNOSIS/TEXT OF OTHER, SPECIFY
DGNL	Num	8	KI_DGN	TCR_KI: Primary Diagnosis: KI @ List Time
DGNLTX	Char	50	\$	TCR_KI: TCR PRIMARY DIAGNOSIS/TEXT OF OTHER,SPECIFY
DHBCOR	Char	2	SSCREEN	LDR: HBV_core
DHBSAG	Char	2	SSCREEN	LDR: HBV_sur_antigen
DHBV	Char	1	SYNUNK	LDR: HBV
DHBV_CLINICAL	Char	2	SYNUNK	LDR: HBV_clinical
DHBV_HDV	Char	2	SSCREEN	LDR: HBV_HDV
DHBV_LI_HIST	Char	2	SSCREEN	LDR: HBV_li_hist
DHBVDNA	Char	2	SSCREEN	LDR: HBV_DNA
DHCRIBA	Char	2	SSCREEN	LDR: HCV_RIBA
DHSCRN	Char	2	SSCREEN	LDR: HCV_antibody
DHCV	Char	1	SYNUNK	LDR: HCV
DHCV_CLINICAL	Char	2	SYNUNK	LDR: HCV_clinical
DHCV_LI_HIST	Char	2	SSCREEN	LDR: HCV_li_hist
DHCVRNA	Char	2	SSCREEN	LDR: HCV_RNA
DHDIAB	Num	8	HISTDIAB	CDR: History of Diabetes:
DHGT	Num	8		CDR: Height:
DHGTST	Char	1	STRIND	CDR: Height in cm Status //ST=
DHHYP	Num	8	HISTHYPE	CDR: History of Hypertension:
DHISP	Char	1	SETHFMT	CDR / LDR: Donor Hispanic Ethnicity
DHISTCIG	Char	1	SYNUNK	CDR: Cigarette Use (> 20 pack years) - Ever:
DHIV	Char	2	SSCREEN	CDR: Anti-HIV I/II:
DHIV_ANTIBODY	Char	2	SSCREEN	LDR: HIV_antibody
DHIV_CLINICAL	Char	2	SYNUNK	LDR: HIV_clinical
DHIV_RNA	Char	2	SSCREEN	LDR: HIV_RNA
DHIVCONF	Char	2	SSCREEN	LDR: HIV_conf_readonly
DHIVSCRN	Char	2	SSCREEN	LDR: HIV_scrn_readonly
DHLATYP	Char	1	SYNUNK	DHS: DON DONOR HLA TYPED
DIAB_TREAT	Num	8	DIABTRET	LDR: diab_treat
DIABD	Char	1	SYNUNK	LDR: diabetes
DIABR	Num	8	DIAINSDP	TCR_KI: Patient Diabetes
DIALDT	Num	8	MMDDYY	KIR: TRR DATE FIRST DIALYZED
DIALDTI	Char	1	STRIND	KIR: TRR DATE FIRST DIALYZED/STATUS
DIALR	Num	8	DIAL_TY	TCR_KI: TCR DIALYSIS AT LISTING
DICCNCR	Char	1	SYNUNK	CDR: Intracranial:
DINFCT	Char	1	SYNUNK	CDR: Clinical Infection:
DINSDEP	Num	8	INSDEP	CDR: Insulin Dependent:
DISP_DBL_ENB_KI	Num	8	DISPOS	CDR: disposition
DISP_LKI	Num	8	DISPOS	CDR: disposition
DISP_PA	Num	8	DISPOS	CDR: disposition
DISP_PA_SEG1	Num	8	DISPOS	CDR: disposition
DISP_PA_SEG2	Num	8	DISPOS	CDR: disposition
DISP_RKI	Num	8	DISPOS	CDR: disposition
DNHTBEAT	Char	1	SYNUNK	CDR: Was this a DCD donor (non - heartbeating):
DON_HOSP_PROVIDER_NUM	Char	10	\$	CDR: Donor Hospital Provider Number:
DON_ORG	Char	4	\$	KIR: ORGAN
DON_RETYP_CLASS1	Char	1	SYNUNK	RHS: don_retyp_class1
DON_RETYP_CLASS2	Char	1	SYNUNK	RHS: don_retyp_class2
DONID	Char	7	\$	KIR: DONOR INFORMATION ID
DONREL_U	Num	8	DON_REL	LDR: DON DONOR TYPE
DOSE_DUR1	Num	8		CDR:
DOSE_DUR2	Num	8		CDR:
DOSE_DUR3	Num	8		CDR:
DOSE_UNITS1	Num	8	INTROUNT	CDR:
DOSE_UNITS2	Num	8	INTROUNT	CDR:
DOSE_UNITS3	Num	8	INTROUNT	CDR:
DOTHRUG	Char	1	SYNUNK	CDR: Other Drug Use (non - IV) - Ever:
DOTHINF	Char	1		
DOTHITXT	Char	50	\$	CDR: Other, specify:
DOTHMED1	Char	50	\$	CDR: Medication //Specify:
DOTHMED2	Char	50	\$	CDR: Medication //Specify:
DOTHMED3	Char	50	\$	CDR: Medication //Specify:
DOTHYMED	Char	1	SYNUNK	CDR: Other Hypertensive Medication:
DPHYSICAL_CAPACITY	Num	8	PHYSCAP	LDR: physical_capacity
DPINF	Char	1		

TXUNOS_KI: Kidney Transplant - UNOS (continued)

Variable	Type	Length	Format	Comment
DPTDIUR	Char	1	SYNUNK	CDR: Diuretics:
DPTHEP	Char	1	SYNUNK	CDR: Heparin:
DPTOTH1	Char	50	\$	CDR: Other (one) //Other/Specify:
DPTOTH2	Char	50	\$	CDR: Other (two) //Other/Specify:
DPTOTH3	Char	50	\$	CDR: Other (three) //Other/Specify:
DPTSTER	Char	1	SYNUNK	CDR: Steroids:
DRACE	Char	3	\$RACEFMT	CDR / LDR: Donor Race
DRECVDT	Num	8	MMDDYY	CDR: Recovery Date (donor to OR)
DRETYMD1	Num	8	HLA_TYMT	RHS: Donor Typing Method Class I:
DRETYMD2	Num	8	HLA_TYMT	RHS: Donor Typing Method Class II:
DRETYP	Char	1	SYNUNK	RHS: Donor Retyped at Your Center:
DRETYP1DT	Num	8	MMDDYY	RHS: Date Typing Completed Class I
DRETYP2DT	Num	8	MMDDYY	RHS: Date Typing Completed Class II
DRETYPTGT1	Num	8	TGCELSRC	RHS: don_retyp_cell_src1
DRETYPTGT2	Num	8	TGCELSRC	RHS: don_retyp_cell_src2
DSEX	Char	1	\$	CDR: Gender:
DSGOT	Num	8		CDR: SGOT/AST:
DSGOTST	Char	1	\$STRIND	CDR: SGOT/AST Status //ST=
DSGPT	Num	8		CDR: SGPT/ALT:
DSGPTST	Char	1	\$STRIND	CDR: SGPT/ALT Status //ST=
DSKCNCR	Char	1	SYNUNK	CDR: Skin:
DSTATE	Char	2	\$STATE	CDR: State:
DSUSPND_DT	Num	8	MMDDYY	LDR:
DTBILI	Num	8		CDR: Total Bilirubin:
DTBILST	Char	1	\$STRIND	CDR: Total Bilirubin Status //ST=
DTCELL1	Num	8	TGCELSRC	DHS: target_src_1
DTCELL2	Num	8	TGCELSRC	DHS: target_src_2
DTHCIRC	Num	8	D_CIRCUM	CDR: Circumstances of Death:
DTHMECH	Num	8	D_MECH	CDR: Mechanism of Death:
DTYMETHC1	Num	8	HLA_TYMT	DHS: DON TYPING METHOD CLASS I
DTYMETHC2	Num	8	HLA_TYMT	DHS: DON TYPING METHOD CLASS II
DTYPE	Char	3	\$DONOR	KIR: DON DONOR TYPE
DURINF	Char	1		
DVASOD	Char	1	SYNUNK	CDR: Vasodilators:
DVDRL	Char	2	\$SCREEN	CDR: RPR-VDRL:
DVIRUSES_TESTED	Char	1	\$	LDR: Viruses_Tested
DWGT	Num	8		CDR: Weight:
DWGTST	Char	1	\$STRIND	CDR: Weight in kg Status //ST=
DWORK_INCOME	Char	1	SYNUNK	LDR: work_income
DWORK_NO_STATUS	Num	8	NOTWORK	LDR: work_no_status
DWORK_YES_STATUS	Num	8	WORKINC	LDR: work_yes_status
DWTIME	Num	8		CDR: If Yes, Estimated Warm Ischemic Time:
EBV	Char	1	SYNUNK	KIR: EBV
EBV_CLINICAL	Char	2	SYNUNK	KIR: EBV_clinical
EDUC	Num	8	ED_LEVEL	TCR_KI: TCR HIGHEST EDUCATION LEVEL AT LISTING
EDUCATION	Num	8	ED_LEVEL	LDR: DON HIGHEST EDUCATION LEVEL
EPSTDNA	Char	2	\$SCREEN	KIR: EBV_DNA
EPSTIGG	Char	2	\$SCREEN	KIR: EBV_IgG
EPSTIGM	Char	2	\$SCREEN	KIR: EBV_IgM
EXP_DT	Num	8	MMDDYY	LDR:
EXPERACC	Char	1	SYNUNK	TCR_KI: TCR EXHAUSTED PERITONEAL ACCESS AT LISTING
EXPRESS_FAMILY	Char	1	SYNUNK	CDR: Did the patient express to family or others the intent to be a donor:
EXVASACC	Char	1	SYNUNK	TCR_KI: TCR EXHAUSTED VASCULAR ACCESS AT LISTING
FFP_UNITS	Num	8		LDR: ffp_units
FIN_FLOW_RATE_TX	Num	8		KIR: fin_flow_rate_tx
FIN_FLOW_RATE_TX_I	Char	1	\$STRIND	KIR: fin_flow_rate_tx_i
FIN_RESIST_TX	Num	8		KIR: fin_resist_tx
FIN_RESIST_TX_I	Char	1	\$STRIND	KIR: fin_resist_tx_i
FINAL_FLUSH1	Num	8	FLUSH	CDR: final_flush
FINAL_FLUSH2	Num	8	FLUSH	CDR: final_flush
FINAL_FLUSH3	Num	8	FLUSH	CDR: final_flush
FINAL_FLUSH4	Num	8	FLUSH	CDR: final_flush
FINAL_FLUSH5	Num	8	FLUSH	CDR: final_flush
FINAL_FLUSH6	Num	8	FLUSH	CDR: final_flush
FINAL_FLUSH_OSTXT1	Char	50	\$	CDR: final_flush_ostxt
FINAL_FLUSH_OSTXT2	Char	50	\$	CDR: final_flush_ostxt

TXUNOS_KI: Kidney Transplant - UNOS (continued)

Variable	Type	Length	Format	Comment
FINAL_FLUSH_OSTXT3	Char	50	\$	CDR: final_flush_ostxt
FINAL_FLUSH_OSTXT4	Char	50	\$	CDR: final_flush_ostxt
FINAL_FLUSH_OSTXT5	Char	50	\$	CDR: final_flush_ostxt
FINAL_FLUSH_OSTXT6	Char	50	\$	CDR: final_flush_ostxt
FORGOV	Char	3	SCTRY	KIR: pri_payment_etry
FUNCSTAT	Num	8	FUNCSTAT	KIR: TRR FUNCTIONAL STATUS
FUNCSTL	Num	8	FUNCSTAT	TCR_KI: TCR FUNCTIONAL STATUS AT LISTING
FWDIAL	Char	1	SYNUNK	KIR: TRR PATIENT NEED DIALYSIS WITHIN FIRST WEEK
GFREAS1	Num	8	KL_C_GRF	KIR: TRR PRIMARY CAUSE OF GRAFT FAILURE
GFRESOTH	Char	50	\$	KIR: TRR PRIMARY CAUSE OF GRAFT FAILURE/SPECIFY
GRFAIL	Char	1	SYNUNK	KIR: TRR GRAFT STATUS
GRFTHRM	Char	1	SYNUNK	KIR: TRR GRAFT THROMBOSIS
HAPLMAT	Num	8	HAPLOTY	DHS: DON HAPLOTYPE MATCH
HBCORE	Char	2	SSCREEN	KIR: HBV_core
HBSAG	Char	2	SSCREEN	KIR: HBV_sur_antigen
HBSAGC	Char	2	SSCREEN	CDR: HBsAg:
HBV	Char	1	SYNUNK	KIR: HBV
HBV_CLINICAL	Char	2	SYNUNK	KIR: HBV_clinical
HBV_LI_HIST	Char	2	SSCREEN	KIR: HBV_li_hist
HBVDNA	Char	2	SSCREEN	KIR: HBV_DNA
HCRIBA	Char	2	SSCREEN	KIR: HCV_RIBA
HCSRN	Char	2	SSCREEN	KIR: HCV_antibody
HCV	Char	1	SYNUNK	KIR: HCV
HCV_CLINICAL	Char	2	SYNUNK	KIR: HCV_clinical
HCV_LI_HIST	Char	2	SSCREEN	KIR: HCV_li_hist
HCVRNA	Char	2	SSCREEN	KIR: HCV_RNA
HEALTH_INS	Char	1	SYNUNK	LDR: health_ins
HEMATOCRIT	Num	8		CDR: Hematocrit:
HEMATOCRIT_I	Char	1	STRIND	CDR: Hematocrit Status //ST=
HGT	Num	8		KIR: TRR HEIGHT IN CENTIMETERS
HGTST	Char	1	STRIND	KIR: TRR HEIGHT IN CENTIMETERS/STATUS
HIST_CANCER	Num	8	CNCRSITE	CDR: History of Cancer:
HIST_COCAINE	Char	1	SYNUNK	CDR: Cocaine Use - Ever:
HIST_HYPER	Num	8	HISTHYPE	LDR: hist_hyper
HIV	Char	1	SYNUNK	KIR: HIV
HIV_ANTIBODY	Char	2	SSCREEN	KIR: HIV_antibody
HIV_CLINICAL	Char	2	SYNUNK	KIR: HIV_clinical
HIV_RNA	Char	2	SSCREEN	KIR: HIV_RNA
HIVCNF	Char	2	SSCREEN	KIR: HIV_conf_readonly
HIVSCRN	Char	2	SSCREEN	KIR: HIV_scrn_readonly
HLA1DT	Num	8	MMDDYY	RHS: Date Typing Completed Class I
HLA2DT	Num	8	MMDDYY	RHS: Date Typing Completed Class II
HLA_INTERPRET1	Num	8	ANTIHLAA	RHS: hla_interpret1
HLA_INTERPRET2	Num	8	ANTIHLAB	RHS: hla_interpret2
HLADONE	Char	1	SYNUNK	RHS: RH HLA TYPING DONE
HMO_PPO	Char	1	\$	LDR: DON HMO/PPO
HOSP_90_DAYS	Char	1	SYNUNK	KIR: hosp_90_days
HRTX	Char	1		KIR: MULTIPLE ORGAN RECIPIENT
HTLV	Char	2	SSCREEN	CDR: Anti-HTLV I/II:
HYPER_DIET	Char	1	SYNUNK	LDR: hyper_diet
HYPER_DIUR	Char	1	SYNUNK	LDR: hyper_diur
HYPER_MEDS	Char	1	SYNUNK	LDR: hyper_meds
HYPERTENSION	Char	1	SYNUNK	LDR: hypertension
INFEC	Char	1	SYNUNK	KIR: TRR INFECTION
INIT_DISCHARGE_DT	Num	8	MMDDYY	LDR: Donor Date of Initial Discharge
INITIAL_FLUSH1	Num	8	FLUSH	CDR: initial_flush
INITIAL_FLUSH2	Num	8	FLUSH	CDR: initial_flush
INITIAL_FLUSH3	Num	8	FLUSH	CDR: initial_flush
INITIAL_FLUSH4	Num	8	FLUSH	CDR: initial_flush
INITIAL_FLUSH5	Num	8	FLUSH	CDR: initial_flush
INITIAL_FLUSH6	Num	8	FLUSH	CDR: initial_flush
INITIAL_FLUSH_OSTXT1	Char	50	\$	CDR: initial_flush_ostxt
INITIAL_FLUSH_OSTXT2	Char	50	\$	CDR: initial_flush_ostxt
INITIAL_FLUSH_OSTXT3	Char	50	\$	CDR: initial_flush_ostxt
INITIAL_FLUSH_OSTXT4	Char	50	\$	CDR: initial_flush_ostxt
INITIAL_FLUSH_OSTXT5	Char	50	\$	CDR: initial_flush_ostxt
INITIAL_FLUSH_OSTXT6	Char	50	\$	CDR: initial_flush_ostxt

TXUNOS_KI: Kidney Transplant - UNOS (continued)

Variable	Type	Length	Format	Comment
INOTROP_AGENTS	Char	1	SYNUNK	CDR: Three or more inotropic agents at time of incision:
INOTROP_SUP	Char	1	SYNUNK	CDR: Inotropic Medications at Time of Cross Clamp:
INR	Num	8		CDR: INR:
INR_I	Char	1	STRIND	CDR: INR Status //ST=
INSULIN	Char	1	SYNUNK	CDR: Insulin:
INTX	Char	1		KIR: MULTIPLE ORGAN RECIPIENT
KI_CREAT_POSTOP	Num	8		LDR: ki_creat_postop
KI_CREAT_POSTOP_I	Char	1	STRIND	LDR: ki_creat_postop_i
KI_GLOMERUL	Num	8	KI_GLUMR	LDR: ki_glomerul
KILDISCD	Num	8	DISCD_CD	CDR: discard_cd
KILTXT	Char	50	\$	CDR: reason_ostxt
KIPROC	Num	8	KI_PR_TY	LDR: DON KIDNEY PROCEDURE TYPE
KIRDISCD	Num	8	DISCD_CD	CDR: discard_cd
KIRTXT	Char	50	\$	CDR: reason_ostxt
KITX	Char	1		KIR: MULTIPLE ORGAN RECIPIENT
KPPROC	Num	8	KP_PROC	KIR: PROCEDURE TYPE
LABCTRXYD	Char	3	\$	DHS: DON LAB CENTER TYPE
LABCTRXYR	Char	3	\$	RHS: RH LAB CENTER TYPE
LDCITZ	Num	8		LDR: DON CITIZENSHIP
LDISCTXT	Char	50	\$	CDR: discard_cd_ostxt
LDON_ORG2	Char	4		LDR: Donor 2nd Recovered Organ
LDTYPEI	Char	50	\$	LDR: DON DONOR TYPE/SPECIFY
LHGT	Num	8		TCR_KI: TCR HEIGHT IN CM AT LISTING
LHGTI	Char	1	STRIND	TCR_KI: TCR HEIGHT STATUS AT LISTING
LIPASE	Num	8		CDR: Serum Lipase:
LIPASE_I	Char	1	STRIND	CDR: Serum Lipase Status //ST=
LISTDAT	Num	8	MMDDYY	TCR_KI: Date of Listing or Add
LITX	Char	1		KIR: MULTIPLE ORGAN RECIPIENT
LKPUMP	Char	1	SYNUNK	CDR: Pump (Left Kidney) //Pump:
LT_KI_BIOPSY	Char	1	SYNUNK	CDR: Left Kidney Biopsy:
LT_KI_GLOMERUL	Num	8		CDR: % Glomerulosclerosis (Left Kidney) //Glomerulosclerosis:
LUTX	Char	1		KIR: MULTIPLE ORGAN RECIPIENT
LWGT	Num	8		TCR_KI: TCR WEIGHT IN KG AT LISTING
LWGTI	Char	1	STRIND	TCR_KI: TCR WEIGHT STATUS AT LISTING
MAINTMED	Char	1	SYNUNK	KIR: TRR ARE ANY MEDS GIVEN CURRENTLY FOR MAINT. OR ANTI-REJ?
MALIG	Char	1	SYNUNK	KIR: TRR PRETRANSPLANT MALIGNANCY
MALIG_OSTXT	Char	50	\$	KIR: malig_ostxt
MALIG_TY	Num	8	MALIGMUL	KIR: malig_ty
MARITAL_STAT	Num	8	MRTLSTAT	LDR: marital_stat
MATC	Num	8		USRDS: CNT HLA A, B, DR MATCH(0 - 6)
MDCOND	Num	8	MED_COND	KIR: TRR MEDICAL CONDITION
MDCONDL	Num	8	MED_COND	TCR_KI: TCR MEDICAL CONDITION AT LISTING
MEASURE1	Num	8	PRAMEAS	RHS: measure1
MEASURE2	Num	8	PRAMEAS	RHS: measure2
MEASURE_POS_XMAT1	Num	8	PRAMEAS	RHS: Positive Xmatch row 1//Measures:
MEASURE_POS_XMAT2	Num	8	PRAMEAS	RHS: Positive Xmatch row 2//Measures:
MEASURE_POS_XMAT3	Num	8	PRAMEAS	RHS: Positive Xmatch row 3//Measures:
MEASURE_POS_XMAT4	Num	8	PRAMEAS	RHS: Positive Xmatch row 4//Measures:
MEASURE_POS_XMAT5	Num	8	PRAMEAS	RHS: Positive Xmatch row 5//Measures:
MEASURE_XMAT1	Num	8	PRAMEAS	RHS: Most Recent row 1//Measures:
MEASURE_XMAT2	Num	8	PRAMEAS	RHS: Most Recent row 2//Measures:
MEASURE_XMAT3	Num	8	PRAMEAS	RHS: Most Recent row 3//Measures:
MEASURE_XMAT4	Num	8	PRAMEAS	RHS: Most Recent row 4//Measures:
MEASURE_XMAT5	Num	8	PRAMEAS	RHS: Most Recent row 5//Measures:
MED_EXAM	Num	8	MEXAMRPT	CDR: Medical Examiner/Coroner:
METH_CLS1_TYP_DT	Num	8	MMDDYY	DHS: Date Typing Complete Class I
METH_CLS2_TYP_DT	Num	8	MMDDYY	DHS: Date Typing Complete Class II
MIS_MATC	Num	8		USRDS: CNT HLA A, B, DR MIS_MATCH(0 - 6)
MNTDDT	Num	8	MMDDYY	KIR: TRR DATE MAINTENANCE DIALYSIS RESUMED
MNTDIAL	Char	1	SYNUNK	KIR: TRR RESUMED MAINTENANCE DIALYSIS
MNTDPROV	Char	10	\$	KIR: TRR DIALYSIS PROVIDER NUMBER
MRCELL1	Num	8	CELL_TY	RHS: Most Recent row 1//Cell Type:
MRCELL2	Num	8	CELL_TY	RHS: Most Recent row 2//Cell Type:
MRCELL3	Num	8	CELL_TY	RHS: Most Recent row 3//Cell Type:
MRCELL4	Num	8	CELL_TY	RHS: Most Recent row 4//Cell Type:

TXUNOS_KI: Kidney Transplant - UNOS (continued)

Variable	Type	Length	Format	Comment
MRCELL5	Num	8	CELL_TY	RHS: Most Recent row 5//Cell Type:
MRCREAT	Num	8		KIR: TRR MOST RECENT SERUM CREATININE PRIOR TO DISCHARGE
MRCREATI	Char	1	STRIND	TCR_KI: TCR MOST RECENT ABSOLUTE CREATINE/STATUS AT LISTING
MRCREATL	Num	8		TCR_KI: TCR MOST RECENT ABSOLUTE CREATININE AT LISTING
MRCRST	Char	1	STRIND	KIR: TRR MOST RECENT SERUM CREATININE PRIOR TO DISCH./STATU
MRPRA	Num	8		RHS: USRDS PRA(%) - Most Recent
MRTGT1	Num	8	TGCELSRC	RHS: Most Recent row 1//Target:
MRTGT2	Num	8	TGCELSRC	RHS: Most Recent row 2//Target:
MRTGT3	Num	8	TGCELSRC	RHS: Most Recent row 3//Target:
MRTGT4	Num	8	TGCELSRC	RHS: Most Recent row 4//Target:
MRTGT5	Num	8	TGCELSRC	RHS: Most Recent row 5//Target:
MRXMDT6	Num	8	MMDDYY	RHS: Positive Xmatch row 1//Serum Date
MRXMDT7	Num	8	MMDDYY	RHS: Positive Xmatch row 2//Serum Date
MRXMDT8	Num	8	MMDDYY	RHS: Positive Xmatch row 3//Serum Date
MRXMDT9	Num	8	MMDDYY	RHS: Positive Xmatch row 4//Serum Date
MRXMDT10	Num	8	MMDDYY	RHS: Positive Xmatch row 5//Serum Date
NEG_XM1	Char	1	SYNUNK	RHS: Positive Xmatch row 1//NEG XM by any other technique with this serum:
NEG_XM2	Char	1	SYNUNK	RHS: Positive Xmatch row 2//NEG XM by any other technique with this serum:
NEG_XM3	Char	1	SYNUNK	RHS: Positive Xmatch row 3//NEG XM by any other technique with this serum:
NEG_XM4	Char	1	SYNUNK	RHS: Positive Xmatch row 4//NEG XM by any other technique with this serum:
NEG_XM5	Char	1	SYNUNK	RHS: Positive Xmatch row 5//NEG XM by any other technique with this serum:
NON_AUTO_BLOOD	Char	1	SYNUNK	LDR: non_auto_blood
ORG_REC_ON	Char	1	SORGRECO	KIR: MULTIPLE ORGAN RECIPIENT
ORGTYP	Char	4	SORG_TYP	KIR: TRR ORGAN(S)
ORIG_PRV	Char	10	\$	TCR_KI: TCR THE ORIGINAL LISTING CENTER
OTH_COMP_KI	Char	1	SYNUNK	LDR: oth_comp_ki
OTH_COMP_KI_INTER	Num	8	OTHCOMP	LDR: oth_comp_ki_inter
OTH_COMP_KI_INTER_OSTXT	Char	50	\$	LDR: oth_comp_ki_inter_ostxt
OTH_INTER_PROC_KI	Char	1	SYNUNK	LDR: oth_inter_proc_ki
OTH_INTER_PROC_KI_DT	Num	8	MMDDYY	LDR: Donor KI Other Interventional Procedures Date
OTH_INTER_PROC_KI_OSTXT	Char	50	\$	LDR: oth_inter_proc_ki_ostxt
OTHER_INF_CONF	Char	1	SYNUNK	CDR: Other // Confirmed by Culture
OTHGF	Char	50	\$	KIR: TRR CONTRIBUTORY CAUSE OF GRAFT FAILURE: OTHER
OTIS_REGID	Char	7	\$	TCR_KI: otis_regid
PA_SEG1DISCD	Num	8	DISCD_CD	CDR: discard_cd
PA_SEG1DISCDTXT	Char	50	\$	CDR: discard_cd_ostxt
PA_SEG1TXT	Char	50	\$	CDR: reason_ostxt
PA_SEG2DISCD	Num	8	DISCD_CD	CDR: discard_cd
PA_SEG2DISCDTXT	Char	50	\$	CDR: discard_cd_ostxt
PA_SEG2TXT	Char	50	\$	CDR: reason_ostxt
PADISCD	Num	8	DISCD_CD	CDR: discard_cd
PADISCDTXT	Char	50	\$	CDR: discard_cd_ostxt
PATX	Char	1		KIR: MULTIPLE ORGAN RECIPIENT
PATXT	Char	50	\$	CDR: reason_ostxt
PEAK_HLA_INTERPRET1	Num	8	ANTIHLAA	RHS: peak_hla_interpret1
PEAK_HLA_INTERPRET2	Num	8	ANTIHLAB	RHS: peak_hla_interpret2
PEAK_MEASURE1	Num	8	PRAMEAS	RHS: peak_measure1
PEAK_MEASURE2	Num	8	PRAMEAS	RHS: peak_measure2
PEAK_PRA1	Num	8		RHS: peak_pra1
PEAK_PRA2	Num	8		RHS: peak_pra2
PEAK_PRA1_DT	Num	8	MMDDYY	RHS: Serum Date - Peak Serum Class I
PEAK_PRA1_DT_I	Char	1	STRIND	RHS: peak_pra1_dt_i
PEAK_PRA1_I	Char	1	STRIND	RHS: peak_pra1_i
PEAK_PRA2_DT	Num	8	MMDDYY	RHS: Serum Date - Peak Serum Class II
PEAK_PRA2_DT_I	Char	1	STRIND	RHS: peak_pra2_dt_i
PEAK_PRA2_I	Char	1	STRIND	RHS: peak_pra2_i
PEAK_TARGET1	Num	8	PRATARGET	RHS: peak_target1
PEAK_TARGET2	Num	8	PRATARGET	RHS: peak_target2

TXUNOS_KI: Kidney Transplant - UNOS (continued)

Variable	Type	Length	Format	Comment
PEAK_TECHNIQUE1	Num	8	PRATECH	RHS: peak_technique1
PEAK_TECHNIQUE2	Num	8	PRATECH	RHS: peak_technique2
PEAK_TECHNIQUE1_OSTXT	Char	50	\$	RHS: peak_technique1_ostxt
PEAK_TECHNIQUE2_OSTXT	Char	50	\$	RHS: peak_technique2_ostxt
PERM_STATE	Char	2	SSTATE	KIR: perm_state
PERM_ZIP	Char	10	\$	KIR: perm_zip
PH	Num	8		CDR: Blood PH:
PH_I	Char	1	STRIND	CDR: PH Status //ST=
PHYSICAL_CAPACITY	Num	8	PHYSCAP	KIR: physical_capacity
PITX	Char	1		KIR: MULTIPLE ORGAN RECIPIENT
PKPRA	Num	8		RHS: USRDS PRA(%) - Peak
PLATELETS_UNITS	Num	8		LDR: platelets_units
POS_AUTOXM	Char	2	SAUTOXM	RHS: pos_autoxm
POS_AUTOXM_DT	Num	8	MMDDYY	RHS: AutoXM Date - Positive AutoXM
POSTOP_TEST_DT	Num	8	MMDDYY	LDR: Donor Most Recent Date of Tests
POSTOP_URINE_PROTEIN	Num	8	URINEPRO	LDR: postop_urine_protein
POSTOP_URINE_RATIO	Num	8		LDR: postop_urine_ratio
PRA1	Num	8		RHS: pra1
PRA2	Num	8		RHS: pra2
PRA1_DT	Num	8	MMDDYY	RHS: Serum Date - Most Recent Class I
PRA1_DT_I	Char	1	STRIND	RHS: pra1_dt_i
PRA1_I	Char	1	STRIND	RHS: pra1_i
PRA2_DT	Num	8	MMDDYY	RHS: Serum Date - Most Recent Class II
PRA2_DT_I	Char	1	STRIND	RHS: pra2_dt_i
PRA2_I	Char	1	STRIND	RHS: pra2_i
PRADONE	Char	1	SYNUNK	RHS: RH PRA TESTING DONE
PRBC_UNITS	Num	8		LDR: prbc_units
PRE_TX_BIOP	Char	1	SYNUNK	KIR: pre_tx_biop
PRE_TX_DIAL	Char	1	SYNUNK	KIR: pre_tx_dial
PREDON_HGT	Num	8		LDR: predon_hgt
PREDON_HGT_I	Char	1	STRIND	LDR: predon_hgt_i
PREDON_WGT	Num	8		LDR: predon_wgt
PREDON_WGT_I	Char	1	STRIND	LDR: predon_wgt_i
PREOP_URINE_PROTEIN	Char	5	SURINEPR	LDR: Preoperative Urinalysis//Urine Protein
PREOP_URINE_RATIO	Num	8		LDR: preop_urine_ratio
PREV_MALIG_TY	Num	8	MALIGMUL	TCR_KI: Any previous Malignancy//Specify Type
PREV_MALIG_TY_OSTXT	Char	50	\$	TCR_KI: prev_malig_ty_ostxt
PREV_PL_TX	Char	1	SYNUNK	TCR_KI: Previous Pancreas Islet Transplantation
PREVPG	Num	8	PRV_PREG	KIR: TRR PREVIOUS PREGNANCIES
PRIPAY	Num	8	P_S_PAY	KIR: pri_payment
PRMALR	Char	1	SYNUNK	TCR_KI: TCR ANY PREVIOUS MALIGNANCY AT LISTING
PROTEIN_URINE	Char	1	SYNUNK	CDR: Protein in Urine:
PROVUSRD	Num	8	BEST	USRDS Assigned Facility ID
PT_T3	Char	1	SYNUNK	CDR: T3:
PT_T4	Char	1	SYNUNK	CDR: T4:
PTSTAT	Char	1	SPSTAT	KIR: TRR PATIENT STATUS
PTSTDT	Num	8	MMDDYY	KIR: TRR PATIENT STATUS/DATE
PTXTFUS_05	Char	1	SYNUNK	KIR: TRR NUMBER OF PRETRANSPLANT BLOOD TRANSFUSIONS
PULCERR	Num	8	PEPULCER	TCR_KI: TCR PEPTIC ULCER DISEASE AT LISTING
PULM_INF_CONF	Char	1	SYNUNK	CDR: Lung // Confirmed by Culture
PVASCR	Char	1	SYNUNK	TCR_KI: TCR SYMPTOMATIC PERIPHERAL VASCULAR DISEASE AT LISTING
PXRESRH	Char	1	SYNUNK	KIR: TRR PX PART. IN RESEARCH PROTOCOL FOR IMMUNO. MEDS
PXRESTXT	Char	50	\$	KIR: TRR PX PART. IN RESEARCH PROTOCOL FOR IMMUNO. SPECIFY
RA1	Char	8		RHS: Recipient HLA Typing A(1)
RA2	Char	8		RHS: Recipient HLA Typing A(2)
RABO	Char	3	\$	TCR_KI: ABO BLOOD GROUP
RB1	Char	8		RHS: Recipient HLA Typing B(1)
RB2	Char	8		RHS: Recipient HLA Typing B(2)
RBW4	Num	8	WKGRPHLA	RHS: RH BW4
RBW6	Num	8	WKGRPHLA	RHS: RH BW6
RCITZ	Num	8		TCR_KI: TCR CITIZENSHIP AT LISTING
RCOD	Num	8	KI_COD	KIR: TRR CAUSE OF DEATH

TXUNOS_KI: Kidney Transplant - UNOS (continued)

Variable	Type	Length	Format	Comment
RCOD2	Num	8	KI_COD	KIR: cod2
RCOD3	Num	8	KI_COD	KIR: cod3
RCOD2TXT	Char	50	\$	KIR: cod2_ostxt
RCOD3TXT	Char	50	\$	KIR: cod3_ostxt
RCODTXT	Char	50	\$	KIR: TRR CAUSE OF DEATH/SPECIFY
RCW1	Num	8	CWHLA	RHS: RH CW (1)
RCW2	Num	8	CWHLA	RHS: RH CW (2)
RDISCTXT	Char	50	\$	CDR: discard_cd_ostxt
RDOB	Num	8	MMDDYY	KIR: DATE OF BIRTH
RDPW1	Num	8	DPHLA	RHS: RH DPW (1)
RDPW2	Num	8	DPHLA	RHS: RH DPW (2)
RDQW1	Num	8	DQHLA	RHS: RH DQ (1)
RDQW2	Num	8	DQHLA	RHS: RH DQ (2)
RDR1	Char	8		RHS: Recipient HLA Typing DR(1)
RDR2	Char	8		RHS: Recipient HLA Typing DR(2)
RDRW51	Num	8	WKGRPHLA	RHS: RH DR51
RDRW52	Num	8	WKGRPHLA	RHS: RH DR52
RDRW53	Num	8	WKGRPHLA	RHS: RH DR53
REA_CD_DBL_ENBKI	Num	8	CONNREQ	CDR: reason_cd
REA_CD_L	Num	8	CONNREQ	CDR: reason_cd
REA_CD_PA	Num	8	CONNREQ	CDR: reason_cd
REA_CD_PA_SEG1	Num	8	CONNREQ	CDR: reason_cd
REA_CD_PA_SEG2	Num	8	CONNREQ	CDR: reason_cd
REA_CD_R	Num	8	CONNREQ	CDR: reason_cd
READMISSION_KI	Char	1	SYNUNK	LDR: readmission_ki
READMISSION_KI_DT	Num	8	MMDDYY	LDR: Donor Date of First KI Readmission
READMISSION_KI_OSTXT	Char	50	\$	LDR: readmission_ki_ostxt
READMISSION_KI_REASON	Num	8	READMIT	LDR: readmission_ki_reason
REC_F_CD	Char	4	\$	LDR: DON DONOR RECOVERY FACILITY
REC_F_TY	Char	3	\$	LDR: DON DONOR RECOVERY FACILITY
REC_ON_ICE	Char	1	SRECONIC	KIR: MULTIPLE ORGAN RECIPIENT
REC_ON_PUMP	Char	1	SRECONPM	KIR: MULTIPLE ORGAN RECIPIENT
RECD5	Char	1	SYNUNK	KIR: TRR RECURRENT DISEASE
RECOV_COUNTRY	Char	3	SCTRY	CDR: Country:
RECOV_DT	Num	8	MMDDYY	LDR: Donor Organ Recovery Date
RECOV_OUT_US	Char	1	SYNUNK	CDR: Recovered Outside the U.S.:
RECOVTM_DBL_ENBKI	Char	10	\$	CDR: recov_prov_num
RECOVTM_PA	Char	10	\$	CDR: recov_prov_num
RECOVTM_PA_SEG1	Char	10	\$	CDR: recov_prov_num
RECOVTM_PA_SEG2	Char	10	\$	CDR: recov_prov_num
RECOVTML	Char	10	\$	CDR: recov_prov_num
RECOVTMR	Char	10	\$	CDR: recov_prov_num
REFCLDT	Num	8	MMDDYY	CDR: Referral Date
REFERRAL_FLG	Char	1	\$	CDR: Referral Flag:
REOP_BLEED_KI	Char	1		LDR: Kidney Reoperation Bleeding
REOP_BLEED_KI_DT	Num	8	MMDDYY	LDR: Donor KI Reoperation Bleeding Date
REOP_BOWEL_KI	Char	1		LDR: Kidney Reoperation Bowel
REOP_BOWEL_KI_DT	Num	8	MMDDYY	LDR: Donor KI Reoperation Bowel Obstruction Date
REOP_HERNIA_KI	Char	1		LDR: Kidney Reoperation Hernia Repair
REOP_HERNIA_KI_DT	Num	8	MMDDYY	LDR: Donor KI Reoperation Hernia Repair Date
REOP_OTH_KI	Char	1		LDR: Kidney Reoperation Other Specify
REOP_OTH_KI_DT	Num	8	MMDDYY	LDR: Donor KI Reoperation Other Date
REOP_OTH_KI_OSTXT	Char	50	\$	LDR: reop_oth_ki_ostxt
REOP_VASC_KI	Char	1		LDR: Kidney Reoperation Vascular
REOP_VASC_KI_DT	Num	8	MMDDYY	LDR: Donor KI Reoperation Vascular Date
REOPERATION_KI	Char	1	SYNUNK	LDR: reoperation_ki
RESIST_SHIP_LT_KI	Num	8		CDR: Final Resistance Prior to Shipping (left) //Final Resistance Prior to Shipping:
RESIST_SHIP_RT_KI_I	Char	1	STRIND	CDR: Final Resistance Prior to Shipping (left) Status //ST=
RESIST_SHIP_RT_KI	Num	8		CDR: Final Resistance Prior to Shipping (right) //Final Resistance Prior to Shipping:
RESIST_SHIP_RT_KI_I	Char	1	STRIND	CDR: Final Resistance Prior to Shipping (right) Status //ST=
RESULT_AUTOXM1	Num	8	X_MATCH	RHS: Most Recent row 1//AutoXM Result Using This Target and Technique:
RESULT_AUTOXM2	Num	8	X_MATCH	RHS: Most Recent row 2//AutoXM Result Using This Target and Technique:
RESULT_AUTOXM3	Num	8	X_MATCH	RHS: Most Recent row 3//AutoXM Result Using This Target and Tech-

TXUNOS_KI: Kidney Transplant - UNOS (continued)

Variable	Type	Length	Format	Comment
RESULT_AUTOXM4	Num	8	X_MATCH	nique: RHS: Most Recent row 4//AutoXM Result Using This Target and Technique:
RESULT_AUTOXM5	Num	8	X_MATCH	RHS: Most Recent row 5//AutoXM Result Using This Target and Technique:
RESULT_POS_AUTOXM1	Num	8		RHS: Positive Xmatch row 1//AutoXM Result Using This Target and Technique:
RESULT_POS_AUTOXM2	Num	8		RHS: Positive Xmatch row 2//AutoXM Result Using This Target and Technique:
RESULT_POS_AUTOXM3	Num	8		RHS: Positive Xmatch row 3//AutoXM Result Using This Target and Technique:
RESULT_POS_AUTOXM4	Num	8		RHS: Positive Xmatch row 4//AutoXM Result Using This Target and Technique:
RESULT_POS_AUTOXM5	Num	8		RHS: Positive Xmatch row 5//AutoXM Result Using This Target and Technique:
RESULT_XMAT1	Num	8	X_MATCH	RHS: Most Recent row 1//Result:
RESULT_XMAT2	Num	8	X_MATCH	RHS: Most Recent row 2//Result:
RESULT_XMAT3	Num	8	X_MATCH	RHS: Most Recent row 3//Result:
RESULT_XMAT4	Num	8	X_MATCH	RHS: Most Recent row 4//Result:
RESULT_XMAT5	Num	8	X_MATCH	RHS: Most Recent row 5//Result:
RESUSCIT_DUR	Num	8		CDR: Duration of Resuscitation //If Yes, Duration of Resuscitation:
RESUSCIT_DUR_I	Char	1	\$STRIND	CDR: Duration of Resuscitation Status //ST=
RHISP	Char	1	\$SETHFMT	TCR_KI: Patient Hispanic Ethnicity
RKPUMP	Char	1	\$YNUNK	CDR: Pump (Right Kidney) //Pump:
RRACE	Char	3	\$RACEFMT	TCR_KI: Patient Race
RSEX	Char	1	\$	KIR: GENDER
RT_KI_BIOPSY	Char	1	\$YNUNK	CDR: Kidney Biopsy (right)//Right Kidney Biopsy:
RT_KI_GLOMERUL	Num	8		CDR: % Glomerulosclerosis (Right Kidney)//Glomerulosclerosis:
RTYMETHC1	Num	8	HLA_TYMT	RHS: RH TYPING METHOD CLASS I
RTYMETHC2	Num	8	HLA_TYMT	RHS: RH TYPING METHOD CLASS I
RWT_ZIP	Char	1	\$	TCR_KI: wait_perm_zip
SECONDARY_PAY	Num	8	\$ECNDPAY	KIR: secondary_pay
SERA_TEST_CLASS1	Char	1	\$YNUNK	RHS: sera_test_class1
SERA_TEST_CLASS2	Char	1	\$YNUNK	RHS: sera_test_class2
SERCREAT	Num	8		KIR: TRR SERUM CREATININE AT TIME OF TRANSPLANT
SERCREATI	Char	1	\$STRIND	KIR: TRR SERUM CREATININE AT TIME OF TRANSPLANT
SERMALB	Num	8		TCR_KI: TCR TOTAL SERUM ALBUMIN AT LISTING
SERMALBI	Char	1	\$STRIND	TCR_KI: TCR TOTAL SERUM ALBUMIN/STATUS AT LISTING
SERUM_DT_ORIGINAL	Num	8	\$MDDYY	RHS: Date of crossmatch serum - Least Recent
SERUM_DT_RECENT	Num	8	\$MDDYY	RHS: Date of crossmatch serum
SERUM_SCREEN	Char	1	\$YNUNK	RHS: serum_screen
SODIUM170_VAL	Num	8		CDR: Serum Sodium //Last Serum Sodium Prior to Procurement:
SODIUM170_VAL_I	Char	1	\$STRIND	CDR: Serum Sodium Status //ST=
SRGCMF	Char	1	\$YNUNK	KIR: TRR SURGICAL COMPLICATIONS
SUSPND_DT	Num	8	\$MDDYY	KIR:
TARGET1	Num	8	\$PRATARGT	RHS: target1
TARGET2	Num	8	\$PRATARGT	RHS: target2
TATTOOS	Char	1	\$YNUNK	CDR: Tattoos:
TDATE	Num	8	\$MDDYY	KIR: TRANSPLANT DATE
TECHNIQUE1	Num	8	\$PRATECH	RHS: technique1
TECHNIQUE2	Num	8	\$PRATECH	RHS: technique2
TECHNIQUE1_OSTXT	Char	50	\$	RHS: technique1_ostxt
TECHNIQUE2_OSTXT	Char	50	\$	RHS: technique2_ostxt
TECHNIQUE_POS_XMAT1	Num	8	\$HISTTCHX	RHS: Positive Xmatch row 1//Technique:
TECHNIQUE_POS_XMAT2	Num	8	\$HISTTCHX	RHS: Positive Xmatch row 2//Technique:
TECHNIQUE_POS_XMAT3	Num	8	\$HISTTCHX	RHS: Positive Xmatch row 3//Technique:
TECHNIQUE_POS_XMAT4	Num	8	\$HISTTCHX	RHS: Positive Xmatch row 4//Technique:
TECHNIQUE_POS_XMAT5	Num	8	\$HISTTCHX	RHS: Positive Xmatch row 5//Technique:
TECHNIQUE_POS_XMAT_OSTXT1	Char	50	\$	RHS: Positive Xmatch row 1 Technique//Specify:
TECHNIQUE_POS_XMAT_OSTXT2	Char	50	\$	RHS: Positive Xmatch row 2 Technique//Specify:
TECHNIQUE_POS_XMAT_OSTXT3	Char	50	\$	RHS: Positive Xmatch row 3 Technique//Specify:
TECHNIQUE_POS_XMAT_OSTXT4	Char	50	\$	RHS: Positive Xmatch row 4 Technique//Specify:
TECHNIQUE_POS_XMAT_OSTXT5	Char	50	\$	RHS: Positive Xmatch row 5 Technique//Specify:
TECHNIQUE_XMAT1	Num	8	\$HISTTCHX	RHS: Most Recent row 1//Technique:
TECHNIQUE_XMAT2	Num	8	\$HISTTCHX	RHS: Most Recent row 2//Technique:
TECHNIQUE_XMAT3	Num	8	\$HISTTCHX	RHS: Most Recent row 3//Technique:

TXUNOS_KI: Kidney Transplant - UNOS (continued)

Variable	Type	Length	Format	Comment
TECHNIQUE_XMAT4	Num	8	HISTTCHX	RHS: Most Recent row 4//Technique:
TECHNIQUE_XMAT5	Num	8	HISTTCHX	RHS: Most Recent row 5//Technique:
TECHNIQUE_XMAT_OSTXT1	Char	50	\$	RHS: Most Recent row 1 Technique//Specify:
TECHNIQUE_XMAT_OSTXT2	Char	50	\$	RHS: Most Recent row 2 Technique//Specify:
TECHNIQUE_XMAT_OSTXT3	Char	50	\$	RHS: Most Recent row 3 Technique//Specify:
TECHNIQUE_XMAT_OSTXT4	Char	50	\$	RHS: Most Recent row 4 Technique//Specify:
TECHNIQUE_XMAT_OSTXT5	Char	50	\$	RHS: Most Recent row 5 Technique//Specify:
THERAPIES	Char	1	SYNUNK	KIR: therapies
THERAPIES_TREATMENT	Num	8	OTHOTHER	KIR: therapies_treatment
TOLER_IND_TECH	Char	1	SYNUNK	KIR: toler_ind_tech
TRANS_PUMP_LT_KI	Char	1	SYNUNK	CDR: Transferred on pump (left)//Transferred on pump:
TRANS_PUMP_RT_KI	Char	1	SYNUNK	CDR: Transferred on pump (right)//Transferred on pump:
TRANSFUS_TERM	Num	8	TRANSFUS	CDR: Number of transfusions during this (terminal) hospitalization:
TRCOPDR	Char	1	SYNUNK	TCR_KI: TCR DRUG TREATED COPD AT LISTING
TRDGN	Num	8	KI_DGN	KIR: TRR PRIMARY DIAGNOSIS
TRDGNCTX	Char	50	\$	KIR: TRR PRIMARY DIAGNOSIS/SPECIFY
TRHYPR	Char	1	SYNUNK	TCR_KI: TCR DRUG TREATED SYSTEMIC HYPERTENSION AT LISTING
TRR_ID	Num	8		KIR/KPR: Transplant Recipient Registration ID
TUMOR_TX	Char	1	SYNUNK	KIR: tumor_tx
TUMOR_TY	Num	8	TUMOR_KI	KIR: tumor_ty
TUMOR_TY_OSTXT	Char	50	\$	KIR: tumor_ty_ostxt
TXFER_DT	Num	8	MMDDYY	KIR: TRR TRANSFER DATE
UNOSGFDT	Num	8	MMDDYY	KIR: TRR DATE OF GRAFT FAILURE
URINE24	Char	1	SYNUNK	KIR: TRR KIDNEY PRODUCED > 40ML OF URINE IN FIRST 24 HOURS
URINE_INF_CONF	Char	1	SYNUNK	CDR: Urine // Confirmed by Culture
URLCMP	Char	1	SYNUNK	KIR: TRR UROLOGICAL COMPLICATIONS
USRDS_ID	Num	8	BEST	USRDS_ID
VASC_COMP_KI	Char	1	SYNUNK	LDR: vasc_comp_ki
VASC_COMP_KI_INTER	Num	8	VASCCOMP	LDR: vasc_comp_ki_inter
VASC_COMP_KI_INTER_OSTXT	Char	50	\$	LDR: vasc_comp_ki_inter_ostxt
VIRUSES_TESTED	Char	1	SYNUNK	KIR: Viruses_Tested
WARM_ISCH_ANAS_KI_LT	Num	8		KIR: warm_isch_anas_ki_lt
WARM_ISCH_ANAS_KI_LT_I	Char	1	STRIND	KIR: warm_isch_anas_ki_lt_i
WARM_ISCH_ANAS_KI_RT	Num	8		KIR: warm_isch_anas_ki_rt
WARM_ISCH_ANAS_KI_RT_I	Char	1	STRIND	KIR: warm_isch_anas_ki_rt_i
WARM_ISCHEMIC_TM_MIN_I	Char	1	STRIND	CDR: Estimated Warm Ischemic Time Status //ST=
WGT	Num	8		KIR: TRR WEIGHT IN KILOGRAMS
WGTST	Char	1	STRIND	KIR: TRR WEIGHT IN KILOGRAMS/STATUS
WORK_INCOME	Char	1	SYNUNK	KIR: work_income
WORK_NO_STATUS	Num	8	NOTWORK	KIR: work_no_status
WORK_YES_STATUS	Num	8	WORKINC	KIR: work_yes_status
XMAT_OTH_SER	Char	1	SYNUNK	RHS: RH POS. XMATCH W/ANY OTHER SERA BY ANY OTHER METHOD
XMDONE	Char	1	SYNUNK	RHS: RH CROSSMATCH DONE
YR_ENTRY_US	Char	29	\$	LDR: yr_entry_us

TXUNOS_KP: Kidney Pancreas Transplant -UNOS (continued)

Variable	Type	Length	Format	Comment
CDC_GROWTH_BMI	Num	8		KPR: cdc_growth_bmi
CDC_GROWTH_HGT	Num	8		KPR: cdc_growth_hgt
CDC_GROWTH_WGT	Num	8		KPR: cdc_growth_wgt
CDC_RISK_HIV	Char	1	SYNUNK	CDR: Does the Donor meet CDC guidelines for 'High Risk' for an organ donor:
CDS_COMMENT	Char	255	\$	KPR: cds_comment
CELL_SRC_POS_XMAT1	Num	8	TGCELSRC	RHS: Positive Xmatch row 1//Target:
CELL_SRC_POS_XMAT2	Num	8	TGCELSRC	RHS: Positive Xmatch row 2//Target:
CELL_SRC_POS_XMAT3	Num	8	TGCELSRC	RHS: Positive Xmatch row 3//Target:
CELL_SRC_POS_XMAT4	Num	8	TGCELSRC	RHS: Positive Xmatch row 4//Target:
CELL_SRC_POS_XMAT5	Num	8	TGCELSRC	RHS: Positive Xmatch row 5//Target:
CELL_TY_POS_XMAT1	Num	8	CELL_TY	RHS: Positive Xmatch row 1//Cell Type:
CELL_TY_POS_XMAT2	Num	8	CELL_TY	RHS: Positive Xmatch row 2//Cell Type:
CELL_TY_POS_XMAT3	Num	8	CELL_TY	RHS: Positive Xmatch row 3//Cell Type:
CELL_TY_POS_XMAT4	Num	8	CELL_TY	RHS: Positive Xmatch row 4//Cell Type:
CELL_TY_POS_XMAT5	Num	8	CELL_TY	RHS: Positive Xmatch row 5//Cell Type:
CLAMP_TM_I	Char	1	STRIND	CDR: Clamp Time Status //ST=
CLAMP_TM_ZONE	Num	8	TIMEZONE	CDR: Clamp Time Zone:
CMV	Char	2	SSCREEN	KPR: CMV_READONLY (PRE-UNET CMV VALUE)
CMV_CLINICAL	Char	2	SSCREEN	KPR: CMV_clinical
CMV_CULTURE	Char	2	SSCREEN	KPR: CMV_culture
CMV_NUCLEIC	Char	2	SSCREEN	KPR: CMV_nucleic
CMV_YN	Char	1	SYNUNK	KPR: CMV
CMVIGG	Char	2	SSCREEN	KPR: TRR CMV IGG
CMVIGM	Char	2	SSCREEN	KPR: TRR CMV IGM
CODOTH	Char	50	\$	CDR: Cause of Death //Specify:
COLD_ISCH_PUMP_KI_LT	Num	8		KPR: cold_isch_pump_ki_lt
COLD_ISCH_PUMP_KI_LT_I	Char	1	STRIND	KPR: cold_isch_pump_ki_lt_i
COLD_ISCH_PUMP_KI_RT	Num	8		KPR: cold_isch_pump_ki_rt
COLD_ISCH_PUMP_KI_RT_I	Char	1	STRIND	KPR: cold_isch_pump_ki_rt_i
COMPL_ABS	Char	1	\$	KPR: compl_abs
COMPL_ANASLK	Char	1	\$	KPR: compl_anasl
COMPL_PANCREA	Char	1	\$	KPR: compl_pancrea
CONSENT_ATTORNEY	Char	1		
CONSENT_DOC_MECH_OSTXT	Char	50	\$	CDR: Other Consent Mechanism //Other Specify
CONSENT_DON_CARD	Char	1		
CONSENT_DON_REGIS	Char	1		
CONSENT_DRIVE_LIC	Char	1		
CONSENT_PX_WRIT_DOC	Char	1	SYNUNK	CDR: Was the consent based solely on this documentation:
CONSENT_TIME	Char	29	\$	CDR: Time consent obtained for first organ:
CONSENT_WRIT_DOC_INTENT	Char	1	SYNUNK	CDR: Did the patient have written documentation of their intent to be a donor:
CONTIN_COCAINE	Char	1	SYNUNK	CDR: Cocaine Use //AND continued in last six months:
CONTROLLED	Char	1	SYNUNK	CDR: If Yes, Controlled:
CONVERT_OPEN_KI	Char	1	SYNUNK	LDR: convert_open_ki
CR_PRE	Num	8		LDR: DON KIDNEY PREOPERATIVE CREATINE
CR_PREI	Char	1	STRIND	LDR: DON KIDNEY PREOPERATIVE CREATINEE/STATUS
CREATDEC	Char	1	SYNUNK	KPR: creat_decl25
CRSMATCH_DONE_PERIOD	Char	1	SYNUNK	RHS: crsmatch_done_period
CTR_TY	Char	3	\$	KPR: TRR RECIPIENT TX CENTER TYPE
CVASCR	Char	1	SYNUNK	TCR_KI: TCR SYMPTOMATIC CEREBROVASCULAR DISEASE AT LISTING
D_F_CD	Char	4	\$	LDR: DON DONOR WORKUP FACILITY
D_F_TY	Char	3	\$	LDR: DON DONOR WORKUP FACILITY
DA1	Char	5		USRDS: DONOR HLA TYPING A(1)
DA2	Char	5		USRDS: DONOR HLA TYPING A(2)
DA1D	Char	8		DHS: HLA Typing A(1)
DA1R	Char	8		RHS: Donor HLA Retyping A(1)
DA2D	Char	8		DHS: HLA Typing A(2)
DA2R	Char	8		RHS: Donor HLA Retyping A(2)
DABO	Char	3	\$	CDR: ABO Blood Group:
DAGE	Num	8		CDR: Age:
DANCONV	Char	1	SYNUNK	CDR: Anticonvulsants:
DANHYP	Char	1	SYNUNK	CDR: Antihypertensives:
DANTIHC	Char	2	SSCREEN	CDR: Anti-HBC:
DANTIHCV	Char	2	SSCREEN	CDR: Anti-HCV:

TXUNOS_KP: Kidney Pancreas Transplant -UNOS (continued)

Variable	Type	Length	Format	Comment
DB1	Char	5		USRDS: DONOR HLA TYPING B(1)
DB2	Char	5		USRDS: DONOR HLA TYPING B(2)
DB1D	Char	8		DHS: HLA Typing B(1)
DB1R	Char	8		RHS: Donor HLA Retyping B(1)
DB2D	Char	8		DHS: HLA Typing B(2)
DB2R	Char	8		RHS: Donor HLA Retyping B(2)
DBL_ENB_KIDISCD	Num	8	DISCD_CD	CDR: discard_cd
DBL_ENB_KIDISCDTXT	Char	50	\$	CDR: discard_cd_ostxt
DBL_ENB_KITXT	Char	50	\$	CDR: reason_ostxt
DBLDINF	Char	1		
DBORN	Num	8	MMDDYY	CDR: DOB: Donor Date of Birth
DBUN	Num	8		CDR: BUN:
DBUNST	Char	1	\$TRIND	CDR: BUN Status //ST=
DBW4D	Num	8	WKGRPHLA	DHS: DON BW4
DBW4R	Num	8	WKGRPHLA	RHS: RH BW4
DBW6D	Num	8	WKGRPHLA	DHS: DON BW6
DBW6R	Num	8	WKGRPHLA	RHS: RH BW6
DCANCER	Char	50	\$	CDR: History of Cancer //Specify:
DCDATE	Num	8	MMDDYY	KPR: TRR DATE OF DISCHARGE FROM TX CENTER
DCDS_COMMENT	Char	255	\$	LDR: cds_comment
DCITY	Char	20	\$	CDR: Home City:
DCITZ	Num	8	CITIZEN	CDR: Citizenship:
DCMV	Char	2	SSCREEN	CDR: Anti-CMV:
DCMV_CLINICAL	Char	2	SSCREEN	LDR: CMV_clinical
DCMV_CULTURE	Char	2	SSCREEN	LDR: CMV_culture
DCMV_IGG	Char	2	SSCREEN	LDR: DON CMV IGG
DCMV_IGM	Char	2	SSCREEN	LDR: DON CMV IGM
DCMV_NUCLEIC	Char	2	SSCREEN	LDR: CMV_nucleic
DCMV_YN	Char	1	\$	LDR: DON (PRE UNET CMV VALUE)
DCNFREE	Num	8		CDR: Cancer Free Interval:
DCNTRY	Char	3	\$CTRY	CDR: Home Country:
DCOD	Num	8	DON_COD	CDR: Cause of Death:
DCONCIG	Char	1	SYNUNK	CDR: Cigarette Use //AND continued in last six months:
DCORCOOL	Char	1	SYNUNK	CDR: If Yes, Core Cooling Used:
DCOTDRUG	Char	1	SYNUNK	CDR: Other Drug Use //AND continued in last six months:
DCREAT	Num	8		CDR: Serum Creatinine:
DCREST	Char	1	\$TRIND	CDR: Serum Creatinine Status //ST=
DCW1D	Num	8	CWHLA	DHS: DON CW (1)
DCW1R	Num	8	CWHLA	RHS: RH CW (1)
DCW2D	Num	8	CWHLA	DHS: DON CW (2)
DCW2R	Num	8	CWHLA	RHS: RH CW (2)
DDAVP	Char	1	SYNUNK	CDR: DDAVP:
DDCLMPDT	Num	8	MMDDYY	CDR: Clamp Date
DDCLMPTM	Char	10		CDR: Clamp Time
DDIET	Char	1	SYNUNK	CDR: Diet:
DDIUR	Char	1	SYNUNK	CDR: Diuretics:
DDOD	Num	8	MMDDYY	LDR: Donor Date of Death
DDP1D	Num	8	DPHLA	DHS: DON DPW (1)
DDP2D	Num	8	DPHLA	DHS: DON DPW (2)
DDPW1R	Num	8	DPHLA	RHS: RH DPW (1)
DDPW2R	Num	8	DPHLA	RHS: RH DPW (2)
DDQ1D	Num	8	DQHLA	DHS: DON DQ (1)
DDQ2D	Num	8	DQHLA	DHS: DON DQ (2)
DDQW1R	Num	8	DQHLA	RHS: RH DQ (1)
DDQW2R	Num	8	DQHLA	RHS: RH DQ (2)
DDR1	Char	5		USRDS: DONOR HLA TYPING DR(1)
DDR2	Char	5		USRDS: DONOR HLA TYPING DR(2)
DDR1D	Char	8	\$DRLOCUS	DHS: HLA Typing DR(1)
DDR1R	Char	8	\$DRLOCUS	RHS: Donor HLA Retyping DR(1)
DDR2D	Char	8	\$DRLOCUS	DHS: HLA Typing DR(2)
DDR2R	Char	8	\$DRLOCUS	RHS: Donor HLA Retyping DR(2)
DDR51D	Num	8	WKGRPHLA	DHS: DON DR51
DDR52D	Num	8	WKGRPHLA	DHS: DON DR52
DDR53D	Num	8	WKGRPHLA	DHS: DON DR53
DDRW51R	Num	8	WKGRPHLA	RHS: RH DR51
DDRW52R	Num	8	WKGRPHLA	RHS: RH DR52
DDRW53R	Num	8	WKGRPHLA	RHS: RH DR53

TXUNOS_KP: Kidney Pancreas Transplant -UNOS (continued)

Variable	Type	Length	Format	Comment
DEBV	Char	1	SYNUNK	LDR: EBV
DEBV_CLINICAL	Char	2	SYNUNK	LDR: EBV_clinical
DEPSTDNA	Char	2	SSCREEN	LDR: EBV_DNA
DEPSTIGG	Char	2	SSCREEN	LDR: EBV_IgG
DEPSTIGM	Char	2	SSCREEN	LDR: EBV_IgM
DEXCNCR	Char	1	SYNUNK	CDR: Extracranial:
DFUNCSTAT	Num	8		LDR: func_stat
DGN2L	Num	8	PA_DGN	TCR_KP: TCR SECONDARY DIAGNOSIS FOR LIVER/ALSO PRIMARY PANCREAS DIAGNOSIS FOR KP LISTINGS
DGN2LTX	Char	50	\$	TCR_KP: TCR SECONDARY DIAGNOSIS/TEXT OF OTHER, SPECIFY
DGNL	Num	8	KI_DGN	TCR_KI: Primary Diagnosis: KI @ List Time
DGNLTX	Char	50	\$	TCR_KI: TCR PRIMARY DIAGNOSIS/TEXT OF OTHER,SPECIFY
DHBCOR	Char	2	SSCREEN	LDR: HBV_core
DHBSAG	Char	2	SSCREEN	LDR: HBV_sur_antigen
DHBV	Char	1	SYNUNK	LDR: HBV
DHBV_CLINICAL	Char	2	SYNUNK	LDR: HBV_clinical
DHBV_HDV	Char	2	SSCREEN	LDR: HBV_HDV
DHBV_LI_HIST	Char	2	SSCREEN	LDR: HBV_li_hist
DHBVDNA	Char	2	SSCREEN	LDR: HBV_DNA
DHCRIBA	Char	2	SSCREEN	LDR: HCV_RIBA
DHCSCRN	Char	2	SSCREEN	LDR: HCV_antibody
DHCV	Char	1	SYNUNK	LDR: HCV
DHCV_CLINICAL	Char	2	SYNUNK	LDR: HCV_clinical
DHCV_LI_HIST	Char	2	SSCREEN	LDR: HCV_li_hist
DHCVRNA	Char	2	SSCREEN	LDR: HCV_RNA
DHDIAB	Num	8	HISTDIAB	CDR: History of Diabetes:
DHGT	Num	8		CDR: Height:
DHGTST	Char	1	STRIND	CDR: Height in cm Status //ST=
DHHYP	Num	8	HISTHYPE	CDR: History of Hypertension:
DHISP	Char	1	SETHFMT	CDR / LDR: Donor Hispanic Ethnicity
DHISTCIG	Char	1	SYNUNK	CDR: Cigarette Use (> 20 pack years) - Ever:
DHIV	Char	2	SSCREEN	CDR: Anti-HIV I/II:
DHIV_ANTIBODY	Char	2	SSCREEN	LDR: HIV_antibody
DHIV_CLINICAL	Char	2	SYNUNK	LDR: HIV_clinical
DHIV_RNA	Char	2	SSCREEN	LDR: HIV_RNA
DHIVCONF	Char	2	SSCREEN	LDR: HIV_conf_readonly
DHIVSCRN	Char	2	SSCREEN	LDR: HIV_scrn_readonly
DHLATYP	Char	1	SYNUNK	DHS: DON DONOR HLA TYPED
DIAB_TREAT	Num	8	DIABTRET	LDR: diab_treat
DIABD	Char	1	SYNUNK	LDR: diabetes
DIABR	Num	8	DIAINSDP	TCR_KI: Patient Diabetes
DIALDT	Num	8	MMDDYY	KPR: TRR DATE FIRST DIALYZED
DIALDTI	Char	1	STRIND	KPR: dial_dt_I
DIALR	Num	8	DIAL_TY	TCR_KI: TCR DIALYSIS AT LISTING
DICCNCR	Char	1	SYNUNK	CDR: Intracranial:
DINFCT	Char	1	SYNUNK	CDR: Clinical Infection:
DINSDEP	Num	8	INSDEP	CDR: Insulin Dependent:
DISP_DBL_ENB_KI	Num	8	DISPOS	CDR: disposition
DISP_LKI	Num	8	DISPOS	CDR: disposition
DISP_PA	Num	8	DISPOS	CDR: disposition
DISP_PA_SEG1	Num	8	DISPOS	CDR: disposition
DISP_PA_SEG2	Num	8	DISPOS	CDR: disposition
DISP_RKI	Num	8	DISPOS	CDR: disposition
DNHTBEAT	Char	1	SYNUNK	CDR: Was this a DCD donor (non - heartbeating):
DON_HOSP_PROVIDER_NUM	Char	10	\$	CDR: Donor Hospital Provider Number:
DON_ORG	Char	4	\$	KPR: ORGAN
DON_RETYP_CLASS1	Char	1	SYNUNK	RHS: don_retyp_class1
DON_RETYP_CLASS2	Char	1	SYNUNK	RHS: don_retyp_class2
DONID	Char	7	\$	KPR: DONOR INFORMATION ID
DONREL_U	Num	8	DON_REL	LDR: DON DONOR TYPE
DOSE_DUR1	Num	8		CDR:
DOSE_DUR2	Num	8		CDR:
DOSE_DUR3	Num	8		CDR:
DOSE_UNITS1	Num	8	INTROUNT	CDR:
DOSE_UNITS2	Num	8	INTROUNT	CDR:

TXUNOS_KP: Kidney Pancreas Transplant -UNOS (continued)

Variable	Type	Length	Format	Comment
DOSE_UNITS3	Num	8	INTROUNT	CDR:
DOTHDRUG	Char	1	SYNUNK	CDR: Other Drug Use (non - IV) - Ever:
DOTHINF	Char	1		
DOTHITXT	Char	50	\$	CDR: Other, specify:
DOTHMED1	Char	50	\$	CDR: Medication //Specify:
DOTHMED2	Char	50	\$	CDR: Medication //Specify:
DOTHMED3	Char	50	\$	CDR: Medication //Specify:
DOTHYMED	Char	1	SYNUNK	CDR: Other Hypertensive Medication:
DPHYSICAL_CAPACITY	Num	8	PHYSCAP	LDR: physical_capacity
DPINF	Char	1		
DPTDIUR	Char	1	SYNUNK	CDR: Diuretics:
DPTHEP	Char	1	SYNUNK	CDR: Heparin:
DPTOTH1	Char	50	\$	CDR: Other (one) //Other/Specify:
DPTOTH2	Char	50	\$	CDR: Other (two) //Other/Specify:
DPTOTH3	Char	50	\$	CDR: Other (three) //Other/Specify:
DPTSTER	Char	1	SYNUNK	CDR: Steroids:
DRACE	Char	3	SRACEFMT	CDR / LDR: Donor Race
DRECVDT	Num	8	MMDDYY	CDR: Recovery Date (donor to OR)
DRETYMD1	Num	8	HLA_TYMT	RHS: Donor Typing Method Class I:
DRETYMD2	Num	8	HLA_TYMT	RHS: Donor Typing Method Class II:
DRETYP	Char	1	SYNUNK	RHS: Donor Retyped at Your Center:
DRETYP1DT	Num	8	MMDDYY	RHS: Date Typing Completed Class I
DRETYP2DT	Num	8	MMDDYY	RHS: Date Typing Completed Class II
DRETYPTGT1	Num	8	TGCELSRC	RHS: don_retyp_cell_src1
DRETYPTGT2	Num	8	TGCELSRC	RHS: don_retyp_cell_src2
DSEX	Char	1	\$	CDR: Gender:
DSGOT	Num	8		CDR: SGOT/AST:
DSGOTST	Char	1	STRIND	CDR: SGOT/AST Status //ST=
DSGPT	Num	8		CDR: SGPT/ALT:
DSGPTST	Char	1	STRIND	CDR: SGPT/ALT Status //ST=
DSKCNCR	Char	1	SYNUNK	CDR: Skin:
DSTATE	Char	2	SSTATE	CDR: State:
DSUSPND_DT	Num	8	MMDDYY	LDR:
DTBILI	Num	8		CDR: Total Bilirubin:
DTBILST	Char	1	STRIND	CDR: Total Bilirubin Status //ST=
DTCELL1	Num	8	TGCELSRC	DHS: target_src_1
DTCELL2	Num	8	TGCELSRC	DHS: target_src_2
DTHCIRC	Num	8	D_CIRCUM	CDR: Circumstances of Death:
DTHMECH	Num	8	D_MECH	CDR: Mechanism of Death:
DTYMETHC1	Num	8	HLA_TYMT	DHS: DON TYPING METHOD CLASS I
DTYMETHC2	Num	8	HLA_TYMT	DHS: DON TYPING METHOD CLASS II
DTYPE	Char	3	SDONOR	KPR: DON DONOR TYPE
DUCT_MGMT	Num	8	PADUCTMG	KPR: duct_mgmt
DUCT_MGMT_OSTXT	Char	50	\$	KPR: duct_mgmt_ostxt
DURINF	Char	1		
DVASOD	Char	1	SYNUNK	CDR: Vasodilators:
DVDRL	Char	2	SSCREEN	CDR: RPR-VDRL:
DVIRUSES_TESTED	Char	1	\$	LDR: Viruses_Tested
DWGT	Num	8		CDR: Weight:
DWGTST	Char	1	STRIND	CDR: Weight in kg Status //ST=
DWORK_INCOME	Char	1	SYNUNK	LDR: work_income
DWORK_NO_STATUS	Num	8	NOTWORK	LDR: work_no_status
DWORK_YES_STATUS	Num	8	WORKINC	LDR: work_yes_status
DWTIME	Num	8		CDR: If Yes, Estimated Warm Ischemic Time:
EBV	Char	1	SYNUNK	KPR: EBV
EBV_CLINICAL	Char	2	SYNUNK	KPR: EBV_clinical
EDUC	Num	8	ED_LEVEL	TCR_KI: TCR HIGHEST EDUCATION LEVEL AT LISTING
EDUCATION	Num	8	ED_LEVEL	LDR: DON HIGHEST EDUCATION LEVEL
EPSTDNA	Char	2	SSCREEN	KPR: EBV_DNA
EPSTIGG	Char	2	SSCREEN	KPR: EBV_IgG
EPSTIGM	Char	2	SSCREEN	KPR: EBV_IgM
EXP_DT	Num	8	MMDDYY	LDR:
EXPERACC	Char	1	SYNUNK	TCR_KI: TCR EXHAUSTED PERITONEAL ACCESS AT LISTING
EXPRESS_FAMILY	Char	1	SYNUNK	CDR: Did the patient express to family or others the intent to be a donor:
EXVASACC	Char	1	SYNUNK	TCR_KI: TCR EXHAUSTED VASCULAR ACCESS AT LISTING

TXUNOS_KP: Kidney Pancreas Transplant -UNOS (continued)

Variable	Type	Length	Format	Comment
FFP_UNITS	Num	8		LDR: ffp_units
FIN_FLOW_RATE_TX	Num	8		KPR: fin_flow_rate_tx
FIN_FLOW_RATE_TX_I	Char	1	STRIND	KPR: fin_flow_rate_tx_i
FIN_RESIST_TX	Num	8		KPR: fin_resist_tx
FIN_RESIST_TX_I	Char	1	STRIND	KPR: fin_resist_tx_i
FINAL_FLUSH1	Num	8	FLUSH	CDR: final_flush
FINAL_FLUSH2	Num	8	FLUSH	CDR: final_flush
FINAL_FLUSH3	Num	8	FLUSH	CDR: final_flush
FINAL_FLUSH4	Num	8	FLUSH	CDR: final_flush
FINAL_FLUSH5	Num	8	FLUSH	CDR: final_flush
FINAL_FLUSH6	Num	8	FLUSH	CDR: final_flush
FINAL_FLUSH_OSTXT1	Char	50	\$	CDR: final_flush_ostxt
FINAL_FLUSH_OSTXT2	Char	50	\$	CDR: final_flush_ostxt
FINAL_FLUSH_OSTXT3	Char	50	\$	CDR: final_flush_ostxt
FINAL_FLUSH_OSTXT4	Char	50	\$	CDR: final_flush_ostxt
FINAL_FLUSH_OSTXT5	Char	50	\$	CDR: final_flush_ostxt
FINAL_FLUSH_OSTXT6	Char	50	\$	CDR: final_flush_ostxt
FUNCSTAT	Num	8	FUNCSTAT	KPR: TRR FUNCTIONAL STATUS
FUNCSTL	Num	8	FUNCSTAT	TCR_KI: TCR FUNCTIONAL STATUS AT LISTING
FWDIAL	Char	1	SYNUNK	KPR: first_wk_dial
GRF_FAIL_CAUSE_KI_OSTXT	Char	50	\$	KPR: grf_fail_cause_ki_ostxt
GRF_FAIL_CAUSE_PA_OSTXT	Char	50	\$	KPR: grf_fail_cause_pa_ostxt
GRF_FAIL_CAUSE_TY_KI	Num	8	KI_C_GRF	KPR: grf_fail_cause_ty_ki
GRF_FAIL_CAUSE_TY_PA	Num	8	PACGFT	KPR: grf_fail_cause_ty_pa
GRF_PLACEM_PA	Num	8	PAGRFTPL	KPR: grf_placem_pa
GRF_REMOV_DT_PA	Num	8	MMDDYY	KPR: Date Pancreas Graft Removed
GRF_REMOV_PA	Char	1	\$	KPR: grf_remov_pa
GRF_STAT_KI	Char	1	SYNUNK	KPR: grf_stat_ki
GRF_STAT_PA	Char	1	SYNUNK	KPR: grf_stat_pa
GRF_THROMB_KI	Char	1	SYNUNK	KPR: grf_thromb_ki
GRF_VASC_THROMB_PA	Char	1	SYNUNK	KPR: grf_vasc_thromb_pa
HAPLMAT	Num	8	HAPLOTY	DHS: DON HAPLOTYPE MATCH
HBCORE	Char	2	SSCREEN	KPR: HBV_core
HBSAG	Char	2	SSCREEN	KPR: HBV_sur_antigen
HBSAGC	Char	2	SSCREEN	CDR: HBsAg:
HBV	Char	1	SYNUNK	KPR: HBV
HBV_CLINICAL	Char	2	SYNUNK	KPR: HBV_clinical
HBV_LI_HIST	Char	2	SSCREEN	KPR: HBV_li_hist
HBVDNA	Char	2	SSCREEN	KPR: HBV_DNA
HCRIBA	Char	2	SSCREEN	KPR: HCV_RIBA
HCSRN	Char	2	SSCREEN	KPR: HCV_antibody
HCV	Char	1	SYNUNK	KPR: HCV
HCV_CLINICAL	Char	2	SYNUNK	KPR: HCV_clinical
HCV_LI_HIST	Char	2	SSCREEN	KPR: HCV_li_hist
HCVRNA	Char	2	SSCREEN	KPR: HCV_RNA
HEALTH_INS	Char	1	SYNUNK	LDR: health_ins
HEMATOCRIT	Num	8		CDR: Hematocrit:
HEMATOCRIT_I	Char	1	STRIND	CDR: Hematocrit Status //ST=
HGT	Num	8		KPR: TRR HEIGHT IN CENTIMETERS
HGTST	Char	1	STRIND	KPR: TRR HEIGHT IN CENTIMETERS/STATUS
HIST_CANCER	Num	8	CNCRSITE	CDR: History of Cancer:
HIST_COCAINE	Char	1	SYNUNK	CDR: Cocaine Use - Ever:
HIST_HYPER	Num	8	HISTHYPE	LDR: hist_hyper
HIV	Char	1	SYNUNK	KPR: HIV
HIV_ANTIBODY	Char	2	SSCREEN	KPR: HIV_antibody
HIV_CLINICAL	Char	2	SYNUNK	KPR: HIV_clinical
HIV_RNA	Char	2	SSCREEN	KPR: HIV_RNA
HIVCNF	Char	2	SSCREEN	KPR: HIV_conf_readonly
HIVSCRN	Char	2	SSCREEN	KPR: HIV_scrn_readonly
HLA1DT	Num	8	MMDDYY	RHS: Date Typing Completed Class I
HLA2DT	Num	8	MMDDYY	RHS: Date Typing Completed Class II
HLA_INTERPRET1	Num	8	ANTIHLAA	RHS: hla_interpret1
HLA_INTERPRET2	Num	8	ANTIHLAB	RHS: hla_interpret2
HLADONE	Char	1	SYNUNK	RHS: RH HLA TYPING DONE
HMO_PPO	Char	1	\$	LDR: DON HMO/PPO
HOSP_90_DAYS	Char	1	SYNUNK	KPR: hosp_90_days

TXUNOS_KP: Kidney Pancreas Transplant -UNOS (continued)

Variable	Type	Length	Format	Comment
HRTX	Char	1		KPR: MULTIPLE ORGAN RECIPIENT
HTLV	Char	2	SSCREEN	CDR: Anti-HTLV I/II:
HYPER_DIET	Char	1	SYNUNK	LDR: hyper_diet
HYPER_DIUR	Char	1	SYNUNK	LDR: hyper_diur
HYPER_MEDS	Char	1	SYNUNK	LDR: hyper_meds
HYPERTENSION	Char	1	SYNUNK	LDR: hypertension
INFECT_KI	Char	1	SYNUNK	KPR: infect_ki
INFECT_PA	Char	1	SYNUNK	KPR: infect_pa
INIT_DISCHARGE_DT	Num	8	MMDDYY	LDR: Donor Date of Initial Discharge
INITIAL_FLUSH1	Num	8	FLUSH	CDR: initial_flush
INITIAL_FLUSH2	Num	8	FLUSH	CDR: initial_flush
INITIAL_FLUSH3	Num	8	FLUSH	CDR: initial_flush
INITIAL_FLUSH4	Num	8	FLUSH	CDR: initial_flush
INITIAL_FLUSH5	Num	8	FLUSH	CDR: initial_flush
INITIAL_FLUSH6	Num	8	FLUSH	CDR: initial_flush
INITIAL_FLUSH_OSTXT1	Char	50	\$	CDR: initial_flush_ostxt
INITIAL_FLUSH_OSTXT2	Char	50	\$	CDR: initial_flush_ostxt
INITIAL_FLUSH_OSTXT3	Char	50	\$	CDR: initial_flush_ostxt
INITIAL_FLUSH_OSTXT4	Char	50	\$	CDR: initial_flush_ostxt
INITIAL_FLUSH_OSTXT5	Char	50	\$	CDR: initial_flush_ostxt
INITIAL_FLUSH_OSTXT6	Char	50	\$	CDR: initial_flush_ostxt
INOTROP_AGENTS	Char	1	SYNUNK	CDR: Three or more inotropic agents at time of incision:
INOTROP_SUP	Char	1	SYNUNK	CDR: Inotropic Medications at Time of Cross Clamp:
INR	Num	8		CDR: INR:
INR_I	Char	1	STRIND	CDR: INR Status //ST=
INSULIN	Char	1	SYNUNK	CDR: Insulin:
INSULIN_RES_DT	Num	8	MMDDYY	KPR: Date Insulin/Medication Resumed
INTX	Char	1		KPR: MULTIPLE ORGAN RECIPIENT
KI_CREAT_POSTOP	Num	8		LDR: ki_creat_postop
KI_CREAT_POSTOP_I	Char	1	STRIND	LDR: ki_creat_postop_i
KI_GLOMERUL	Num	8	KI_GLUMR	LDR: ki_glomerul
KILDISCD	Num	8	DISCD_CD	CDR: discard_cd
KILTXT	Char	50	\$	CDR: reason_ostxt
KIPROC	Num	8	KI_PR_TY	LDR: DON KIDNEY PROCEDURE TYPE
KIRDISCD	Num	8	DISCD_CD	CDR: discard_cd
KIRTXT	Char	50	\$	CDR: reason_ostxt
KITX	Char	1		KPR: MULTIPLE ORGAN RECIPIENT
KPPROC	Num	8	KP_PROC	KPR: PROCEDURE TYPE
LABCTRITYD	Char	3	\$	DHS: DON LAB CENTER TYPE
LABCTRITYR	Char	3	\$	RHS: RH LAB CENTER TYPE
LDCITZ	Num	8		LDR: DON CITIZENSHIP
LDISCTXT	Char	50	\$	CDR: discard_cd_ostxt
LDON_ORG2	Char	4		LDR: Donor 2nd Recovered Organ
LDTYPEI	Char	50	\$	LDR: DON DONOR TYPE/SPECIFY
LHGT	Num	8		TCR_KI: TCR HEIGHT IN CM AT LISTING
LHGTI	Char	1	STRIND	TCR_KI: TCR HEIGHT STATUS AT LISTING
LIPASE	Num	8		CDR: Serum Lipase:
LIPASE_I	Char	1	STRIND	CDR: Serum Lipase Status //ST=
LISTDAT	Num	8	MMDDYY	TCR_KI: Date of Listing or Add
LITX	Char	1		KPR: MULTIPLE ORGAN RECIPIENT
LKPUMP	Char	1	SYNUNK	CDR: Pump (Left Kidney) //Pump:
LT_KI_BIOPSY	Char	1	SYNUNK	CDR: Left Kidney Biopsy:
LT_KI_GLOMERUL	Num	8		CDR: % Glomerulosclerosis (Left Kidney) //Glomerulosclerosis:
LUTX	Char	1		KPR: MULTIPLE ORGAN RECIPIENT
LWGT	Num	8		TCR_KI: TCR WEIGHT IN KG AT LISTING
LWGTI	Char	1	STRIND	TCR_KI: TCR WEIGHT STATUS AT LISTING
MAINTMED	Char	1	SYNUNK	KPR: TRR ARE ANY MEDS GIVEN CURRENTLY FOR MAINT. OR ANTI-REJ?
MALIG	Char	1	SYNUNK	KPR: TRR PRETRANSPLANT MALIGNANCY
MALIG_OSTXT	Char	50	\$	KPR: malig_ostxt
MALIG_TY	Num	8	MALIGMUL	KPR: malig_ty
MARITAL_STAT	Num	8	MRTLSTAT	LDR: marital_stat
MATC	Num	8		USRDS: CNT HLA A, B, DR MATCH(0 - 6)
MDCOND	Num	8	MED_COND	KPR: TRR MEDICAL CONDITION
MDCONDL	Num	8	MED_COND	TCR_KI: TCR MEDICAL CONDITION AT LISTING
MEASURE1	Num	8	PRAMEAS	RHS: measure1

TXUNOS_KP: Kidney Pancreas Transplant -UNOS (continued)

Variable	Type	Length	Format	Comment
MEASURE2	Num	8	PRAMEAS	RHS: measure2
MEASURE_POS_XMAT1	Num	8	PRAMEAS	RHS: Positive Xmatch row 1//Measures:
MEASURE_POS_XMAT2	Num	8	PRAMEAS	RHS: Positive Xmatch row 2//Measures:
MEASURE_POS_XMAT3	Num	8	PRAMEAS	RHS: Positive Xmatch row 3//Measures:
MEASURE_POS_XMAT4	Num	8	PRAMEAS	RHS: Positive Xmatch row 4//Measures:
MEASURE_POS_XMAT5	Num	8	PRAMEAS	RHS: Positive Xmatch row 5//Measures:
MEASURE_XMAT1	Num	8	PRAMEAS	RHS: Most Recent row 1//Measures:
MEASURE_XMAT2	Num	8	PRAMEAS	RHS: Most Recent row 2//Measures:
MEASURE_XMAT3	Num	8	PRAMEAS	RHS: Most Recent row 3//Measures:
MEASURE_XMAT4	Num	8	PRAMEAS	RHS: Most Recent row 4//Measures:
MEASURE_XMAT5	Num	8	PRAMEAS	RHS: Most Recent row 5//Measures:
MED_EXAM	Num	8	MEXAMRPT	CDR: Medical Examiner/Coroner:
METH_BLOOD_SUG_CTL	Num	8	METHBLD	KPR: meth_blood_sug_ctl
METH_CLS1_TYP_DT	Num	8	MMDDYY	DHS: Date Typing Complete Class I
METH_CLS2_TYP_DT	Num	8	MMDDYY	DHS: Date Typing Complete Class II
MIS_MATC	Num	8		USRDS: CNT HLA A, B, DR MIS_MATCH(0 - 6)
MNTDDT	Num	8	MMDDYY	KPR: TRR Post Tx Date Maintenance Dialysis Resumed
MNTDIAL	Char	1	SYNUNK	KPR: resum_maint_dial
MNTDPROV	Char	10	S	KPR: dial_prv_num
MRCELL1	Num	8	CELL_TY	RHS: Most Recent row 1//Cell Type:
MRCELL2	Num	8	CELL_TY	RHS: Most Recent row 2//Cell Type:
MRCELL3	Num	8	CELL_TY	RHS: Most Recent row 3//Cell Type:
MRCELL4	Num	8	CELL_TY	RHS: Most Recent row 4//Cell Type:
MRCELL5	Num	8	CELL_TY	RHS: Most Recent row 5//Cell Type:
MRCREAT	Num	8		KPR: serum_creat
MRCREATI	Char	1	STRIND	TCR_KI: TCR MOST RECENT ABSOLUTE CREATINE/STATUS AT LISTING
MRCREATL	Num	8		TCR_KI: TCR MOST RECENT ABSOLUTE CREATININE AT LISTING
MRCRST	Char	1	STRIND	KPR: serum_creat_i
MRPRA	Num	8		RHS: USRDS PRA(%) - Most Recent
MRTGT1	Num	8	TGCELSRC	RHS: Most Recent row 1//Target:
MRTGT2	Num	8	TGCELSRC	RHS: Most Recent row 2//Target:
MRTGT3	Num	8	TGCELSRC	RHS: Most Recent row 3//Target:
MRTGT4	Num	8	TGCELSRC	RHS: Most Recent row 4//Target:
MRTGT5	Num	8	TGCELSRC	RHS: Most Recent row 5//Target:
MRXMDT6	Num	8	MMDDYY	RHS: Positive Xmatch row 1//Serum Date
MRXMDT7	Num	8	MMDDYY	RHS: Positive Xmatch row 2//Serum Date
MRXMDT8	Num	8	MMDDYY	RHS: Positive Xmatch row 3//Serum Date
MRXMDT9	Num	8	MMDDYY	RHS: Positive Xmatch row 4//Serum Date
MRXMDT10	Num	8	MMDDYY	RHS: Positive Xmatch row 5//Serum Date
NEG_XM1	Char	1	SYNUNK	RHS: Positive Xmatch row 1//NEG XM by any other technique with this serum:
NEG_XM2	Char	1	SYNUNK	RHS: Positive Xmatch row 2//NEG XM by any other technique with this serum:
NEG_XM3	Char	1	SYNUNK	RHS: Positive Xmatch row 3//NEG XM by any other technique with this serum:
NEG_XM4	Char	1	SYNUNK	RHS: Positive Xmatch row 4//NEG XM by any other technique with this serum:
NEG_XM5	Char	1	SYNUNK	RHS: Positive Xmatch row 5//NEG XM by any other technique with this serum:
NON_AUTO_BLOOD	Char	1	SYNUNK	LDR: non_auto_blood
OPER_TECH	Num	8	KPTXTYP	KPR: oper_tech
ORG_REC_ON	Char	1	SORGRECO	KPR: MULTIPLE ORGAN RECIPIENT
ORGTYP	Char	4	SORG_TYP	KPR: TRR ORGAN(S)
ORIG_PRV	Char	10	S	TCR_KI: TCR THE ORIGINAL LISTING CENTER
OTH_COMP_KI	Char	1	SYNUNK	LDR: oth_comp_ki
OTH_COMP_KI_INTER	Num	8	OTHCOMP	LDR: oth_comp_ki_inter
OTH_COMP_KI_INTER_OSTXT	Char	50	S	LDR: oth_comp_ki_inter_ostxt
OTH_COMPL_OSTXT	Char	50	S	KPR: oth_compl_ostxt
OTH_GRF_FAIL_CAUSE_KI_OSTXT	Char	50	S	KPR: oth_grf_fail_cause_ki_ostxt
OTH_GRF_FAIL_CAUSE_PA_OSTXT	Char	50	S	KPR: oth_grf_fail_cause_pa_ostxt
OTH_INTER_PROC_KI	Char	1	SYNUNK	LDR: oth_inter_proc_ki
OTH_INTER_PROC_KI_DT	Num	8	MMDDYY	LDR: Donor KI Other Interventional Procedures Date
OTH_INTER_PROC_KI_OSTXT	Char	50	S	LDR: oth_inter_proc_ki_ostxt
OTHER_INF_CONF	Char	1	SYNUNK	CDR: Other // Confirmed by Culture

TXUNOS_KP: Kidney Pancreas Transplant -UNOS (continued)

Variable	Type	Length	Format	Comment
OTIS_REGID	Char	7	\$	TCR: KI: otis_regid
PA_PRESERV_TM	Num	8		KPR: pa_preserv_tm
PA_PRESERV_TM_I	Char	1	\$	KPR: pa_preserv_tm_i
PA_REVASC	Num	8	PAREVASC	KPR: pa_revasc
PA_SEG1DISCD	Num	8	DISCD_CD	CDR: discard_cd
PA_SEG1DISCDTXT	Char	50	\$	CDR: discard_cd_ostxt
PA_SEG1TXT	Char	50	\$	CDR: reason_ostxt
PA_SEG2DISCD	Num	8	DISCD_CD	CDR: discard_cd
PA_SEG2DISCDTXT	Char	50	\$	CDR: discard_cd_ostxt
PA_SEG2TXT	Char	50	\$	CDR: reason_ostxt
PADISCD	Num	8	DISCD_CD	CDR: discard_cd
PADISCDTXT	Char	50	\$	CDR: discard_cd_ostxt
PANCREATIT	Char	1	\$	KPR: pancreatit
PATX	Char	1		KPR: MULTIPLE ORGAN RECIPIENT
PATXT	Char	50	\$	CDR: reason_ostxt
PEAK_HLA_INTERPRET1	Num	8	ANTIHLAA	RHS: peak_hla_interpret1
PEAK_HLA_INTERPRET2	Num	8	ANTIHLAB	RHS: peak_hla_interpret2
PEAK_MEASURE1	Num	8	PRAMEAS	RHS: peak_measure1
PEAK_MEASURE2	Num	8	PRAMEAS	RHS: peak_measure2
PEAK_PRA1	Num	8		RHS: peak_pra1
PEAK_PRA2	Num	8		RHS: peak_pra2
PEAK_PRA1_DT	Num	8	MMDDYY	RHS: Serum Date - Peak Serum Class I
PEAK_PRA1_DT_I	Char	1	STRIND	RHS: peak_pra1_dt_i
PEAK_PRA1_I	Char	1	STRIND	RHS: peak_pra1_i
PEAK_PRA2_DT	Num	8	MMDDYY	RHS: Serum Date - Peak Serum Class II
PEAK_PRA2_DT_I	Char	1	STRIND	RHS: peak_pra2_dt_i
PEAK_PRA2_I	Char	1	STRIND	RHS: peak_pra2_i
PEAK_TARGET1	Num	8	PRATARGET	RHS: peak_target1
PEAK_TARGET2	Num	8	PRATARGET	RHS: peak_target2
PEAK_TECHNIQUE1	Num	8	PRATECH	RHS: peak_technique1
PEAK_TECHNIQUE2	Num	8	PRATECH	RHS: peak_technique2
PEAK_TECHNIQUE1_OSTXT	Char	50	\$	RHS: peak_technique1_ostxt
PEAK_TECHNIQUE2_OSTXT	Char	50	\$	RHS: peak_technique2_ostxt
PERM_STATE	Char	2	\$STATE	KPR: perm_state
PERM_ZIP	Char	10	\$	KPR: perm_zip
PH	Num	8		CDR: Blood PH:
PH_I	Char	1	STRIND	CDR: PH Status //ST=
PHYSICAL_CAPACITY	Num	8	PHYSCAP	KPR: physical_capacity
PITX	Char	1		KPR: MULTIPLE ORGAN RECIPIENT
PKPRA	Num	8		RHS: USRDS PRA(%) - Peak
PLATELETS_UNITS	Num	8		LDR: platelets_units
POS_AUTOXM	Char	2	\$AUTOXM	RHS: pos_autoxm
POS_AUTOXM_DT	Num	8	MMDDYY	RHS: AutoXM Date - Positive AutoXM
POSTOP_TEST_DT	Num	8	MMDDYY	LDR: Donor Most Recent Date of Tests
POSTOP_URINE_PROTEIN	Num	8	URINEPRO	LDR: postop_urine_protein
POSTOP_URINE_RATIO	Num	8		LDR: postop_urine_ratio
PRA1	Num	8		RHS: pra1
PRA2	Num	8		RHS: pra2
PRA1_DT	Num	8	MMDDYY	RHS: Serum Date - Most Recent Class I
PRA1_DT_I	Char	1	STRIND	RHS: pra1_dt_i
PRA1_I	Char	1	STRIND	RHS: pra1_i
PRA2_DT	Num	8	MMDDYY	RHS: Serum Date - Most Recent Class II
PRA2_DT_I	Char	1	STRIND	RHS: pra2_dt_i
PRA2_I	Char	1	STRIND	RHS: pra2_i
PRADONE	Char	1	SYNUNK	RHS: RH PRA TESTING DONE
PRBC_UNITS	Num	8		LDR: prbc_units
PRE_AVG_INSULIN_USED	Num	8		KPR: pre_avg_insulin_used
PRE_AVG_INSULIN_USED_I	Char	1	\$	KPR: pre_avg_insulin_used_i
PRE_TX_BIOP	Char	1	SYNUNK	KPR: pre_tx_biop
PRE_TX_DIAL	Char	1	SYNUNK	KPR: pre_tx_dial
PREDON_HGT	Num	8		LDR: predon_hgt
PREDON_HGT_I	Char	1	STRIND	LDR: predon_hgt_i
PREDON_WGT	Num	8		LDR: predon_wgt
PREDON_WGT_I	Char	1	STRIND	LDR: predon_wgt_i
PREOP_URINE_PROTEIN	Char	5	SURINEPR	LDR: Preoperative Urinalysis//Urine Protein
PREOP_URINE_RATIO	Num	8		LDR: preop_urine_ratio
PREV_MALIG_TY	Num	8	MALIGMUL	TCR: KI: Any previous Malignancy//Specify Type

TXUNOS_KP: Kidney Pancreas Transplant -UNOS (continued)

Variable	Type	Length	Format	Comment
PREV_MALIG_TY_OSTXT	Char	50	S	TCR_KI: prev_malig_ty_ostxt
PREV_PI_TX	Char	1	SYNUNK	TCR_KI: Previous Pancreas Islet Transplantation
PREVPG	Num	8	PRV_PREG	KPR: prev_preg
PRI_PAYMENT	Num	8		KPR: pri_payment
PRI_PAYMENT_CTRY	Char	3	S	KPR: pri_payment_ctry
PRI_PAYMENT_CTRY_KI	Char	3	SCTRY	KPR: pri_payment_ctry_ki
PRI_PAYMENT_CTRY_PA	Char	3	SCTRY	KPR: pri_payment_ctry_pa
PRI_PAYMENT_KI	Num	8	P_S_PAY	KPR: pri_payment_ki
PRI_PAYMENT_PA	Num	8	P_S_PAY	KPR: pri_payment_pa
PRMALR	Char	1	SYNUNK	TCR_KI: TCR ANY PREVIOUS MALIGNANCY AT LISTING
PROTEIN_URINE	Char	1	SYNUNK	CDR: Protein in Urine:
PROVUSRD	Num	8	BEST	USRDS Assigned Facility ID
PT_T3	Char	1	SYNUNK	CDR: T3:
PT_T4	Char	1	SYNUNK	CDR: T4:
PTSTAT	Char	1	SPSTAT	KPR: TRR PATIENT STATUS
PTSTDT	Num	8	MMDDYY	KPR: TRR PATIENT STATUS/DATE
PTXTFUS_05	Char	1	SYNUNK	KPR: pre_tx_txfus
PULCERR	Num	8	PEPULCER	TCR_KI: TCR PEPTIC ULCER DISEASE AT LISTING
PULM_INF_CONF	Char	1	SYNUNK	CDR: Lung // Confirmed by Culture
PVASCR	Char	1	SYNUNK	TCR_KI: TCR SYMPTOMATIC PERIPHERAL VASCULAR DISEASE AT LISTING
PXRESRH	Char	1	SYNUNK	KPR: TRR PX PART. IN RESEARCH PROTOCOL FOR IMMUNO. MEDS
PXRESTXT	Char	50	S	KPR: TRR PX PART. IN RESEARCH PROTOCOL FOR IMMUNO. SPECIFY
RA1	Char	8		RHS: Recipient HLA Typing A(1)
RA2	Char	8		RHS: Recipient HLA Typing A(2)
RABO	Char	3	S	TCR_KI: ABO BLOOD GROUP
RB1	Char	8		RHS: Recipient HLA Typing B(1)
RB2	Char	8		RHS: Recipient HLA Typing B(2)
RBW4	Num	8	WKGRPHLA	RHS: RH BW4
RBW6	Num	8	WKGRPHLA	RHS: RH BW6
RCITZ	Num	8		TCR_KI: TCR CITIZENSHIP AT LISTING
RCOD	Num	8	CODKP	KPR: TRR CAUSE OF DEATH
RCOD2	Num	8	CODKP	KPR: cod2
RCOD3	Num	8	CODKP	KPR: cod3
RCOD2TXT	Char	50	S	KPR: cod2_ostxt
RCOD3TXT	Char	50	S	KPR: cod3_ostxt
RCODTXT	Char	50	S	KPR: TRR CAUSE OF DEATH/SPECIFY
RCW1	Num	8	CWHLA	RHS: RH CW (1)
RCW2	Num	8	CWHLA	RHS: RH CW (2)
RDISCTXT	Char	50	S	CDR: discard_cd_ostxt
RDOB	Num	8	MMDDYY	KPR: DATE OF BIRTH
RDPW1	Num	8	DPHLA	RHS: RH DPW (1)
RDPW2	Num	8	DPHLA	RHS: RH DPW (2)
RDQW1	Num	8	DQHLA	RHS: RH DQ (1)
RDQW2	Num	8	DQHLA	RHS: RH DQ (2)
RDR1	Char	8		RHS: Recipient HLA Typing DR(1)
RDR2	Char	8		RHS: Recipient HLA Typing DR(2)
RDRW51	Num	8	WKGRPHLA	RHS: RH DR51
RDRW52	Num	8	WKGRPHLA	RHS: RH DR52
RDRW53	Num	8	WKGRPHLA	RHS: RH DR53
REA_CD_DBL_ENBKI	Num	8	CONNREQ	CDR: reason_cd
REA_CD_L	Num	8	CONNREQ	CDR: reason_cd
REA_CD_PA	Num	8	CONNREQ	CDR: reason_cd
REA_CD_PA_SEG1	Num	8	CONNREQ	CDR: reason_cd
REA_CD_PA_SEG2	Num	8	CONNREQ	CDR: reason_cd
REA_CD_R	Num	8	CONNREQ	CDR: reason_cd
READMISSION_KI	Char	1	SYNUNK	LDR: readmission_ki
READMISSION_KI_DT	Num	8	MMDDYY	LDR: Donor Date of First KI Readmission
READMISSION_KI_OSTXT	Char	50	S	LDR: readmission_ki_ostxt
READMISSION_KI_REASON	Num	8	READMIT	LDR: readmission_ki_reason
REC_F_CD	Char	4	S	LDR: DON DONOR RECOVERY FACILITY
REC_F_TY	Char	3	S	LDR: DON DONOR RECOVERY FACILITY
REC_ON_ICE	Char	1	SRECONIC	KPR: MULTIPLE ORGAN RECIPIENT
REC_ON_PUMP	Char	1	SRECONPM	KPR: Received on pump:

TXUNOS_KP: Kidney Pancreas Transplant -UNOS (continued)

Variable	Type	Length	Format	Comment
RECD5	Char	1	SYNUNK	KPR: recur_disease
RECOV_COUNTRY	Char	3	SCTRY	CDR: Country:
RECOV_DT	Num	8	MMDDYY	LDR: Donor Organ Recovery Date
RECOV_OUT_US	Char	1	SYNUNK	CDR: Recovered Outside the U.S.:
RECOVTM_DBL_ENBKI	Char	10	\$	CDR: recov_prov_num
RECOVTM_PA	Char	10	\$	CDR: recov_prov_num
RECOVTM_PA_SEG1	Char	10	\$	CDR: recov_prov_num
RECOVTM_PA_SEG2	Char	10	\$	CDR: recov_prov_num
RECOVTML	Char	10	\$	CDR: recov_prov_num
RECOVTMR	Char	10	\$	CDR: recov_prov_num
REFCLDT	Num	8	MMDDYY	CDR: Referral Date
REFERRAL_FLG	Char	1	\$	CDR: Referral Flag:
REJ_ACUTE_KI	Char	1	SYNUNK	KPR: rej_acute_ki
REJ_ACUTE_PA	Char	1	SYNUNK	KPR: rej_acute_pa
REJ_HYPER_PA	Char	1	\$	KPR: rej_hyper_pa
REOP_BLEED_KI	Char	1		LDR: Kidney Reoperation Bleeding
REOP_BLEED_KI_DT	Num	8	MMDDYY	LDR: Donor KI Reoperation Bleeding Date
REOP_BOWEL_KI	Char	1		LDR: Kidney Reoperation Bowel
REOP_BOWEL_KI_DT	Num	8	MMDDYY	LDR: Donor KI Reoperation Bowel Obstruction Date
REOP_HERNIA_KI	Char	1		LDR: Kidney Reoperation Hernia Repair
REOP_HERNIA_KI_DT	Num	8	MMDDYY	LDR: Donor KI Reoperation Hernia Repair Date
REOP_OTH_KI	Char	1		LDR: Kidney Reoperation Other Specify
REOP_OTH_KI_DT	Num	8	MMDDYY	LDR: Donor KI Reoperation Other Date
REOP_OTH_KI_OSTXT	Char	50	\$	LDR: reop_oth_ki_ostxt
REOP_VASC_KI	Char	1		LDR: Kidney Reoperation Vascular
REOP_VASC_KI_DT	Num	8	MMDDYY	LDR: Donor KI Reoperation Vascular Date
REOPERATION_KI	Char	1	SYNUNK	LDR: reoperation_ki
RESIST_SHIP_LT_KI	Num	8		CDR: Final Resistance Prior to Shipping (left) //Final Resistance Prior to Shipping:
RESIST_SHIP_LT_KI_I	Char	1	STRIND	CDR: Final Resistance Prior to Shipping (left) Status //ST=
RESIST_SHIP_RT_KI	Num	8		CDR: Final Resistance Prior to Shipping (right) //Final Resistance Prior to Shipping:
RESIST_SHIP_RT_KI_I	Char	1	STRIND	CDR: Final Resistance Prior to Shipping (right) Status //ST=
RESULT_AUTOXM1	Num	8	X_MATCH	RHS: Most Recent row 1//AutoXM Result Using This Target and Technique:
RESULT_AUTOXM2	Num	8	X_MATCH	RHS: Most Recent row 2//AutoXM Result Using This Target and Technique:
RESULT_AUTOXM3	Num	8	X_MATCH	RHS: Most Recent row 3//AutoXM Result Using This Target and Technique:
RESULT_AUTOXM4	Num	8	X_MATCH	RHS: Most Recent row 4//AutoXM Result Using This Target and Technique:
RESULT_AUTOXM5	Num	8	X_MATCH	RHS: Most Recent row 5//AutoXM Result Using This Target and Technique:
RESULT_POS_AUTOXM1	Num	8		RHS: Positive Xmatch row 1//AutoXM Result Using This Target and Technique:
RESULT_POS_AUTOXM2	Num	8		RHS: Positive Xmatch row 2//AutoXM Result Using This Target and Technique:
RESULT_POS_AUTOXM3	Num	8		RHS: Positive Xmatch row 3//AutoXM Result Using This Target and Technique:
RESULT_POS_AUTOXM4	Num	8		RHS: Positive Xmatch row 4//AutoXM Result Using This Target and Technique:
RESULT_POS_AUTOXM5	Num	8		RHS: Positive Xmatch row 5//AutoXM Result Using This Target and Technique:
RESULT_XMAT1	Num	8	X_MATCH	RHS: Most Recent row 1//Result:
RESULT_XMAT2	Num	8	X_MATCH	RHS: Most Recent row 2//Result:
RESULT_XMAT3	Num	8	X_MATCH	RHS: Most Recent row 3//Result:
RESULT_XMAT4	Num	8	X_MATCH	RHS: Most Recent row 4//Result:
RESULT_XMAT5	Num	8	X_MATCH	RHS: Most Recent row 5//Result:
RESUSCIT_DUR	Num	8		CDR: Duration of Resuscitation //If Yes, Duration of Resuscitation:
RESUSCIT_DUR_I	Char	1	STRIND	CDR: Duration of Resuscitation Status //ST=
RETX_ORG	Char	2	\$	KPR: retx_org
RHISP	Char	1	SETHFMT	TCR_KP: Patient Hispanic Ethnicity
RKPUMP	Char	1	SYNUNK	CDR: Pump (Right Kidney) //Pump:
RRACE	Char	3	\$RACEFMT	TCR_KP: Patient Race
RSEX	Char	1	\$	KPR: GENDER
RT_KI_BIOPSY	Char	1	SYNUNK	CDR: Kidney Biopsy (right)://Right Kidney Biopsy:
RT_KI_GLOMERUL	Num	8		CDR: % Glomerulosclerosis (Right Kidney)//Glomerulosclerosis:
RTYMETHC1	Num	8	HLA_TYMT	RHS: RH TYPING METHOD CLASS I
RTYMETHC2	Num	8	HLA_TYMT	RHS: RH TYPING METHOD CLASS I
RWT_ZIP	Char	1	\$	TCR_KI: wait_perm_zip
SECONDARY_PAY_KI	Num	8	SECNDPAY	KPR: secondary_pay_ki
SECONDARY_PAY_PA	Num	8	SECNDPAY	KPR: secondary_pay_pa

TXUNOS_KP: Kidney Pancreas Transplant -UNOS (continued)

Variable	Type	Length	Format	Comment
SERA_TEST_CLASS1	Char	1	SYNUNK	RHS: sera_test_class1
SERA_TEST_CLASS2	Char	1	SYNUNK	RHS: sera_test_class2
SERCREAT	Num	8		KPR: creat
SERCREATI	Char	1	STRIND	KPR: creat_i
SERMALB	Num	8		TCR_KI: TCR TOTAL SERUM ALBUMIN AT LISTING
SERMALBI	Char	1	STRIND	TCR_KI: TCR TOTAL SERUM ALBUMIN/STATUS AT LISTING
SERUM_DT_ORIGINAL	Num	8	MMDDYY	RHS: Date of crossmatch serum - Least Recent
SERUM_DT_RECENT	Num	8	MMDDYY	RHS: Date of crossmatch serum
SERUM_SCREEN	Char	1	SYNUNK	RHS: serum_screen
SODIUM170_VAL	Num	8		CDR: Serum Sodium //Last Serum Sodium Prior to Procurement:
SODIUM170_VAL_I	Char	1	STRIND	CDR: Serum Sodium Status //ST=
SRGCMPL	Char	1	SYNUNK	KPR: surg_compl
SURG_INCIS	Num	8	SURGINCI	KPR: surg_incis
SUSPND_DT	Num	8	MMDDYY	KPR:
TARGET1	Num	8	PRATARGT	RHS: target1
TARGET2	Num	8	PRATARGT	RHS: target2
TATTOOS	Char	1	SYNUNK	CDR: Tattoos:
TDATE	Num	8	MMDDYY	KPR: TRANSPLANT DATE
TECHNIQUE1	Num	8	PRATECH	RHS: technique1
TECHNIQUE2	Num	8	PRATECH	RHS: technique2
TECHNIQUE1_OSTXT	Char	50	\$	RHS: technique1_ostxt
TECHNIQUE2_OSTXT	Char	50	\$	RHS: technique2_ostxt
TECHNIQUE_POS_XMAT1	Num	8	HISTTCHX	RHS: Positive Xmatch row 1//Technique:
TECHNIQUE_POS_XMAT2	Num	8	HISTTCHX	RHS: Positive Xmatch row 2//Technique:
TECHNIQUE_POS_XMAT3	Num	8	HISTTCHX	RHS: Positive Xmatch row 3//Technique:
TECHNIQUE_POS_XMAT4	Num	8	HISTTCHX	RHS: Positive Xmatch row 4//Technique:
TECHNIQUE_POS_XMAT5	Num	8	HISTTCHX	RHS: Positive Xmatch row 5//Technique:
TECHNIQUE_POS_XMAT_OSTXT1	Char	50	\$	RHS: Positive Xmatch row 1 Technique//Specify:
TECHNIQUE_POS_XMAT_OSTXT2	Char	50	\$	RHS: Positive Xmatch row 2 Technique//Specify:
TECHNIQUE_POS_XMAT_OSTXT3	Char	50	\$	RHS: Positive Xmatch row 3 Technique//Specify:
TECHNIQUE_POS_XMAT_OSTXT4	Char	50	\$	RHS: Positive Xmatch row 4 Technique//Specify:
TECHNIQUE_POS_XMAT_OSTXT5	Char	50	\$	RHS: Positive Xmatch row 5 Technique//Specify:
TECHNIQUE_XMAT1	Num	8	HISTTCHX	RHS: Most Recent row 1//Technique:
TECHNIQUE_XMAT2	Num	8	HISTTCHX	RHS: Most Recent row 2//Technique:
TECHNIQUE_XMAT3	Num	8	HISTTCHX	RHS: Most Recent row 3//Technique:
TECHNIQUE_XMAT4	Num	8	HISTTCHX	RHS: Most Recent row 4//Technique:
TECHNIQUE_XMAT5	Num	8	HISTTCHX	RHS: Most Recent row 5//Technique:
TECHNIQUE_XMAT_OSTXT1	Char	50	\$	RHS: Most Recent row 1 Technique//Specify:
TECHNIQUE_XMAT_OSTXT2	Char	50	\$	RHS: Most Recent row 2 Technique//Specify:
TECHNIQUE_XMAT_OSTXT3	Char	50	\$	RHS: Most Recent row 3 Technique//Specify:
TECHNIQUE_XMAT_OSTXT4	Char	50	\$	RHS: Most Recent row 4 Technique//Specify:
TECHNIQUE_XMAT_OSTXT5	Char	50	\$	RHS: Most Recent row 5 Technique//Specify:
THERAPIES	Char	1	SYNUNK	KPR: therapies
THERAPIES_TREATMENT	Num	8	OTHOTHER	KPR: therapies_treatment
TOLER_IND_TECH	Char	1	SYNUNK	KPR: toler_ind_tech
TRANS_PUMP_LT_KI	Char	1	SYNUNK	CDR: Transferred on pump (left)//Transferred on pump:
TRANS_PUMP_RT_KI	Char	1	SYNUNK	CDR: Transferred on pump (right)//Transferred on pump:
TRANSFUS_TERM	Num	8	TRANSFUS	CDR: Number of transfusions during this (terminal) hospitalization:
TRCOPDR	Char	1	SYNUNK	TCR_KI: TCR DRUG TREATED COPD AT LISTING
TRDGN_KI	Num	8	KI_DGN	KPR: TRR PRIMARY DIAGNOSIS
TRDGN_PA	Num	8	PA_DGN	KPR: dgn_pa
TRDGN_TX_KI	Char	50	\$	KPR: TRR PRIMARY DIAGNOSIS/SPECIFY
TRDGN_TX_PA	Char	50	\$	KPR: dgn_pa_ostxt
TRHYPR	Char	1	SYNUNK	TCR_KI: TCR DRUG TREATED SYSTEMIC HYPERTENSION AT LISTING
TRR_ID	Num	8		KIR/KPR: Transplant Recipient Registration ID
TUMOR_TX	Char	1	SYNUNK	KPR: tumor_tx
TUMOR_TY	Num	8	TUMOR_KI	KPR: tumor_ty
TUMOR_TY_OSTXT	Char	50	\$	KPR: tumor_ty_ostxt
TXFER_DT	Num	8	MMDDYY	KPR: TRR TRANSFER DATE
UNOSGF_PA_DT	Num	8	MMDDYY	KPR: DATE OF GRAFT FAILURE(PA)
UNOSGFDT	Num	8	MMDDYY	KPR: DATE OF GRAFT FAILURE(KI)
URINE24	Char	1	SYNUNK	KPR: prod_urine24
URINE_INF_CONF	Char	1	SYNUNK	CDR: Urine // Confirmed by Culture

TRANSPLANT CD-2

TXFUUNOS_KI: Kidney Transplant Followup-UNOS

Includes transplant followup reports collected by UNOS since 1988.

Variable	Type	Length	Format	Comment
ACADEMIC_LEVEL	Num	8	ACAAC	KIF: academic_level
ACADEMIC_PRG	Num	8		KIF: academic_prg
ACTREJ	Char	1	SYNUFMT	KIF: TRF REJECTION: ACUTE
ACUTE_REJ_EPI	Num	8	ACREJEPI	KIF: acute_rej_epi
ADD_USER_ID	Num	8		KIF: add_user_id
ANTI_VIRAL_TREATMENTS	Num	8	ANTIVIRL	KIF: anti_viral_treatments
BIO_VAC_DONE	Char	1	SYNUFMT	KIF: anti_viral
BIOPSY_CONFIRMED	Num	8	BIOPCONF	KIF: biopsy_confirmed
BK	Char	1	SYNUFMT	KIF: bk
BK_CLINICAL	Char	2	SSCREEN	KIF: bk_clinical
BK_DNA	Char	2	SSCREEN	KIF: bk_dna
BK_KI_HIST	Char	2	SSCREEN	KIF: bk_ki_hist
BK_URINE	Char	2	SSCREEN	KIF: bk_urine
BK_VIRUS	Char	1	SYNUFMT	KIF: bk_virus
BMI	Num	8		KIF: bmi
BOTH1TXT	Char	50	\$	KIF: anti_viral1_ostxt
BOTH2TXT	Char	50	\$	KIF: anti_viral2_ostxt
CDC_GROWTH_BMI	Num	8		KIF: cdc_growth_bmi
CDC_GROWTH_HGT	Num	8		KIF: cdc_growth_hgt
CDC_GROWTH_WGT	Num	8		KIF: cdc_growth_wgt
CHRNREJ	Char	1	SYNUFMT	KIF: TRF CHRONIC REJECTION
CMV	Char	2	SSCREEN	KIF: CMV_READONLY (PRE-UNET CMV VALUE)
CMV_CLINICAL	Char	2	SSCREEN	KIF: cmv_clinical
CMV_CULTURE	Char	2	SSCREEN	KIF: cmv_culture
CMV_NUCLEIC	Char	2	SSCREEN	KIF: cmv_nucleic
CMV_YN	Char	1	SSCREEN	KIF: CMV
CMVIGG	Char	2	SSCREEN	KIF: TRF CMV IGG
CMVIGM	Char	2	SSCREEN	KIF: TRF CMV IGM
COD	Char	4	SCODFMT	KIF: Primary Cause of Death:
COD2	Char	4	SCODFMT	KIF: Contributory Cause of Death:
COD3	Char	4	SCODFMT	KIF: Contributory Cause of Death:
COD2TXT	Char	50	\$	KIF: cod2_ostxt
COD3TXT	Char	50	\$	KIF: cod3_ostxt
CODTXT	Char	50	\$	KIF: TRF CAUSE OF DEATH/SPECIFY
CREAT	Num	8		KIF: TRF MOST RECENT SERUM CREATININE
CREATIND	Char	1	STRIND	KIF: TRF MOST RECENT SERUM CREATININE/STATUS
CTR_TY	Char	3	\$	KIF: TRF TRANSPLANT CENTER TYPE
DCDATE	Num	8	MMDDYY	KIF: TRR DATE OF DISCHARGE FROM TX CENTER
DENOVLYM	Char	1	SYNUFMT	KIF: TRF DE NOVO LYMPHOPROLIFERATIVE
DENOVNUM	Char	1	SYNUFMT	KIF: TRF DE NOVO SOLID TUMOR
DIABETES_DURING	Char	1	SYNUFMT	KIF: diabetes_during
DIALDT	Num	8	MMDDYY	KIF: TRF DATE MAINTENANCE DIALYSIS RESUMED
DIALYSIS	Num	8	DIA_MNT	KIF: TRF DIALYSIS SINCE LAST FOLLOW-UP
DONID	Char	7	\$	KIF: DONOR INFORMATION ID
DONREL	Char	1	SYNUFMT	KIF: TRF DONOR RELATED
DTYPE	Char	3	\$	KIF: DONOR TYPE
EBV	Char	1	SSCREEN	KIF: ebv
EBV_CLINICAL	Char	2	SYNUFMT	KIF: ebv_clinical
EPSTDNA	Char	2	SSCREEN	KIF: ebv_dna
EPSTIGG	Char	2	SSCREEN	KIF: ebv_igg
EPSTIGM	Char	2	SSCREEN	KIF: ebv_igm
FOLCD	Char	3	SFOLFMT	KIF: Follow up code
FOLCTRTRY	Char	3	\$	KIF: TRF FOLLOW-UP CENTER TYPE
FUCAREBY	Num	8	CAREPROV	KIF: TRF FOLLOW-UP CARE PROVIDED BY
FUCARTXT	Char	50	\$	KIF: TRF FOLLOW-UP CARE PROVIDED BY/SPECIFY
FUDATE	Num	8	MMDDYY	KIF: This Fol-up Date -- after tx
FUKIFAIL	Num	8	MMDDYY	KIF: This Fol-up Date -- after graft failure
FUNCSTAT	Num	8	FUNCSTAT	KIF: TRF FUNCTIONAL STATUS
GF1	Num	8	C_GRF_FU	KIF: TRF PRIMARY CAUSES OF GRAFT FAILURE
GFAIL	Char	1	SYNUFMT	KIF: TRF GRAFT STATUS
GFAILDAT	Num	8	MMDDYY	KIF: TRF DATE OF FAILURE
GRFTEXT	Char	50	\$	KIF: TRF CAUSE OF GRAFT FAILURE/SPECIFY

TXFUUNOS_KI: Kidney Transplant Followup-UNOS

Variable	Type	Length	Format	Comment
GRFTHROM	Char	1	SYNUFMT	KIF: TRF GRAFT THROMBOSIS
HBCORE	Char	2	SSCREEN	KIF: hbv_core
HBSAG	Char	2	SSCREEN	KIF: hbv_sur_antigen
HBV	Char	1	SYNUFMT	KIF: hbv
HBV_CLINICAL	Char	2	SYNUFMT	KIF: hbv_clinical
HBV_LI_HIST	Char	2	SSCREEN	KIF: hbv_li_hist
HBVDNA	Char	2	SSCREEN	KIF: hbv_dna
HCRIBA	Char	2	SSCREEN	KIF: hcv_riba
HCSCRN	Char	2	SSCREEN	KIF: hcv_antibody
HCV	Char	1	SYNUFMT	KIF: hcv
HCV_CLINICAL	Char	2	SYNUFMT	KIF: hcv_clinical
HCV_LI_HIST	Char	2	SSCREEN	KIF: hcv_li_hist
HCVRNA	Char	2	SSCREEN	KIF: hcv_rna
HGT	Num	8		KIF: TRF HEIGHT IN CENTIMETERS
HGTIND	Char	1	STRIND	KIF: TRF HEIGHT IN CENTIMETERS/STATUS
HIV	Char	1	SYNUFMT	KIF: hiv
HIV_ANTIBODY	Char	2	SSCREEN	KIF: hiv_antibody
HIV_CLINICAL	Char	2	SYNUFMT	KIF: hiv_clinical
HIV_RNA	Char	2	SSCREEN	KIF: hiv_rna
HIVCNF	Char	2	SSCREEN	KIF: hiv_conf_readonly
HIVSCRN	Char	2	SSCREEN	KIF: hiv_scrn_readonly
HOSP	Char	1	SYNUFMT	KIF: TRF HOSPITALIZATIONS DURING FOLLOW-UP PERIOD
HOSPSTUS	Char	1	STRIND	KIF: TRF NUMBER OF HOSPITALIZATIONS/STATUS
IM_DISC	Char	1	SYNUFMT	KIF: TRF IF NO MAINT MEDS, DID PHYS. DISC. ALL IMMUNO MEDS
INFECT	Char	1	SYNUFMT	KIF: TRF INFECTION
INSULIN_DEPENDENT	Char	1	SYNUFMT	KIF: insulin_dependent
MAINTMED	Num	8	IMMOR	KIF: TRF ANY MEDS GIVEN DURING FOLLOW-UP FOR MAINTENANCE OR ANTI-REJECTION?
MALIG	Char	1	SYNUFMT	KIF: TRF POST TRANSPLANT MALIGNANCY
MNTDPROV	Char	10	S	KIF: TRF DIALYSIS PROVIDER NUMBER
NONCMPL	Char	1	SYNUFMT	KIF: TRF PATIENT NONCOMPLIANT DURING THIS FOLLOW-UP PERIOD
NUM_HOSP	Num	8		KIF: TRF NUMBER OF HOSPITALIZATIONS
ORGTYP	Char	4	SORG_TYP	KIF: TRF ORGAN TYPE
OTHGF	Char	50	S	KIF: TRF OTHER CONTRIBUTORY CAUSES OF GRAFT FAILURE
PASTAT	Char	1	SPXSTH	KIF: TRF PATIENT STATUS
PASTATDT	Num	8	MMDDYY	KIF: TRF PATIENT STATUS/DATE
PHYSICAL_CAPACITY	Num	8	PHYSCAP	KIF: physical_capacity
POLYOMA	Char	1	SYNUFMT	KIF: polyoma
POLYOMA_VIRUS	Num	8	TREATBK	KIF: polyoma_virus
POLYOMA_VIRUS_OSTXT	Char	50	S	KIF: polyoma_virus_ostxt
PREXTUM	Char	1	SYNUFMT	KIF: TRF RECURRENCE OF PRE-TX TUMOR
PRI_PAYMENT	Num	8	PRIPAY	KIF: pri_payment
PRI_PAYMENT_CTRY	Char	3	SCTRY	KIF: pri_payment_etry
PROVUSRD	Num	8	BEST	KIF: USRDS Assigned Follow-up Center Facility ID
PX_NON_COMPL	Char	1	SYNUFMT	KIF: px_non_compl
PXRESRH	Char	1	SYNUFMT	KIF: TRF DID PX PARTICIPATE IN RESEARCH FOR IMMUNO MEDS
PXRESTXT	Char	50	S	KIF: TRF SPECIFY RESEARCH FOR IMMUNO MEDS.
RDOB	Num	8	MMDDYY	KIF: DATE OF BIRTH
RECDIS	Char	1	SYNUFMT	KIF: TRF RECURRENT DISEASE: NON-HEPATITIS
RECURRED_ORIG_DGN	Num	8	DISREC	KIF: recurred_orig_dgn
RSEX	Char	1	S	KIF: GENDER
SEROLOGY	Char	1	SYNUFMT	KIF: viruses_tested
TDATE	Num	8	MMDDYY	KIF: TRANSPLANT DATE
THERAPIES	Char	1	SYNUFMT	KIF: therapies
THERAPIES_TREATMENT	Num	8	OTHOTHER	KIF: therapies_treatment
TRR_ID	Num	8		KIR: TRR PRIMARY RECORD KEY
TRRFU_ID	Num	8		KIF: TRF PRIMARY RECORD KEY
URINE_PROTEIN	Char	1	SYNUFMT	KIF: urine_protein
URLCOMP	Char	1	SYNUFMT	KIF: TRF UROLOGICAL COMPLICATIONS
USRDS_ID	Num	8	BEST	USRDS_ID
WGT	Num	8		KIF: TRF WEIGHT IN KILOGRAMS
WGTIND	Char	1	STRIND	KIF: TRF WEIGHT IN KILOGRAMS/STATUS
WORK_INCOME	Char	1	SYNUFMT	KIF: work_income
WORK_NO_STATUS	Num	8	NOTWORK	KIF: work_no_status
WORK_YES_STATUS	Num	8		

TTXFUUNOS KP: Kidney Pancreas Transplant Followup-UNOS
Includes transplant followup reports collected by UNOS since 1988.

Variable	Type	Length	Format	Comment
ACADEMIC_LEVEL	Num	8	ACAAC	KPF: academic_level
ACADEMIC_PRG	Num	8		KPF: academic_prg
ACTREJ_KI	Char	1	SYNUFMT	KPF: rej_acute_ki
ACTREJ_PA	Char	1	SYNUFMT	KPF: rej_acute_pa
ACUTE_REJ_EPI	Num	8	ACREJEPI	KPF: acute_rej_epi
ACUTE_REJ_EPI_PA	Num	8	ACREJEPI	KPF: acute_rej_epi_pa
ANAST_LK	Char	1	S	KPF: anast_lk
ANTL_VIRAL_TREATMENTS	Num	8	ANTIVIRL	KPF: anti_viral_treatments
BIO_VAC_DONE	Char	1	SYNUFMT	KPF: anti_viral
BIOP_ISLET	Char	1	SYNUFMT	KPF: biop_islet
BIOPSY_CONFIRMED	Num	8	BIOPCONF	KPF: biopsy_confirmed
BIOPSY_CONFIRMED_PA	Num	8	BIOPCONF	KPF: biopsy_confirmed_pa
BK	Char	1	SYNUFMT	KPF: bk
BK_CLINICAL	Char	2	SSCREEN	KPF: bk_clinical
BK_DNA	Char	2	SSCREEN	KPF: bk_dna
BK_KI_HIST	Char	2	SSCREEN	KPF: bk_ki_hist
BK_URINE	Char	2	SSCREEN	KPF: bk_urine
BK_VIRUS	Char	1	SYNUFMT	KPF: bk_virus
BLEED	Char	1	S	KPF: bleed
BMI	Num	8		KPF: bmi
BOTH1TXT	Char	50	S	KPF: anti_viral1_ostxt
BOTH2TXT	Char	50	S	KPF: anti_viral2_ostxt
CDC_GROWTH_BMI	Num	8		KPF: cdc_growth_bmi
CDC_GROWTH_HGT	Num	8		KPF: cdc_growth_hgt
CDC_GROWTH_WGT	Num	8		KPF: cdc_growth_wgt
CHRNREJ_KI	Char	1	SYNUFMT	KPF: rej_chronic_ki
CHRNREJ_PA	Char	1	SYNUFMT	KPF: rej_chronic_pa
CMV	Char	2	SSCREEN	KPF: CMV_READONLY (PRE-UNET CMV VALUE)
CMV_CLINICAL	Char	2	SSCREEN	KPF: cmv_clinical
CMV_CULTURE	Char	2	SSCREEN	KPF: cmv_culture
CMV_NUCLEIC	Char	2	SSCREEN	KPF: cmv_nucleic
CMV_YN	Char	1	SSCREEN	KPF: CMV
CMVIGG	Char	2	SSCREEN	KPF: TRF CMV IGG
CMVIGM	Char	2	SSCREEN	KPF: TRF CMV IGM
COD	Char	4	SCODKP	KPF: Primary Cause of Death:
COD2	Char	4	SCODKP	KPF: Contributory Cause of Death:
COD3	Char	4	SCODKP	KPF: Contributory Cause of Death:
COD2TXT	Char	50	S	KPF: cod2_ostxt
COD3TXT	Char	50	S	KPF: cod3_ostxt
CODTXT	Char	50	S	KPF: TRF CAUSE OF DEATH/SPECIFY
COMPL_ABS	Char	1	SYNUFMT	KPF: compl_abs
COMPL_ANASLK	Char	1	SYNUFMT	KPF: compl_anasl
COMPL_PANCREA	Char	1	SYNUFMT	KPF: compl_pancrea
CREAT	Num	8		KPF: creat
CREATIND	Char	1	STRIND	KPF: creat_i
CTR_TY	Char	3	S	KPF: TRF TRANSPLANT CENTER TYPE
DCDATE	Num	8	MMDDYY	KPF: TRR DATE OF DISCHARGE FROM TX CENTER
DENOVLIM	Char	1	SYNUFMT	KPF: TRF DE NOVO LYMPHOPROLIFERATIVE
DENOVUM	Char	1	SYNUFMT	KPF: TRF DE NOVO SOLID TUMOR
DIALDT	Num	8	MMDDYY	KPF: TRF DATE MAINTENANCE DIALYSIS RESUMED
DIALYSIS	Num	8	DIA_MNT	KPF: dial_ty
DONID	Char	7	S	KPF: DONOR INFORMATION ID
DONREL	Char	1	SYNUFMT	KPF: TRF DONOR RELATED
DTYPE	Char	3	S	KPF: DON DONOR TYPE
EBV	Char	1	SSCREEN	KPF: ebv
EBV_CLINICAL	Char	2	SYNUFMT	KPF: ebv_clinical
ENTERIC_DRAIN	Char	1	SYNUFMT	KPF: enteric_drain
ENTERIC_DRAIN_DT	Num	8	MMDDYY	KPF:
EPSTDNA	Char	2	SSCREEN	KPF: ebv_dna
EPSTIGG	Char	2	SSCREEN	KPF: ebv_igg
EPSTIGM	Char	2	SSCREEN	KPF: ebv_igm
FOLCD	Char	3	SFOLFMT	KPF: Follow up code
FOLCTRTY	Char	3	S	KPF: TRF FOLLOW-UP CENTER TYPE

TXFUUNOS_KP: Kidney Pancreas Transplant Follow-up-UNOS (continued)

Variable	Type	Length	Format	Comment
FUCAREBY	Num	8	CAREPROV	KPF: TRF FOLLOW-UP CARE PROVIDED BY
FUCARTXT	Char	50	\$	KPF: TRF FOLLOW-UP CARE PROVIDED BY/SPECIFY
FUDATE	Num	8	MMDDYY	KPF: This Fol-up Date -- after tx
FUKIFAIL	Num	8	MMDDYY	KPF: This Fol-up Date -- after graft failure
FUNCSTAT	Num	8	FUNCSTAT	KPF: TRF FUNCTIONAL STATUS
GF1_KI	Num	8	C_GRF_FU	KPF: grf_fail_cause_ty_ki
GF1_PA	Num	8	PACGFF	KPF: grf_fail_cause_ty_pa
GFAIL_KI	Char	1	SYNUFMT	KPF: grf_stat_ki
GFAIL_PA	Char	1	SYNP	KPF: grf_stat_pa
GFAILDAT_KI	Num	8	MMDDYY	KPF: Kidney Date of Failure During Follow-up Perid
GFAILDAT_PA	Num	8	MMDDYY	KPF: Pancreas Date of Failure During Follow-up Perid
GRF_REMOV_DT_PA	Num	8	MMDDYY	KPF: Date of Pancreas Removed During Follow-up Perid
GRF_REMOV_PA	Char	1	SYNUFMT	KPF: grf_remov_pa
GRFTEXT_KI	Char	50	\$	KPF: grf_fail_cause_ki_ostxt
GRFTEXT_PA	Char	50	\$	KPF: grf_fail_cause_pa_ostxt
GRFTHROM_KI	Char	1	SYNUFMT	KPF: grf_thromb_ki
GRFTHROM_PA	Char	1	SYNUFMT	KPF: grf_vasc_thromb_pa
HBCORE	Char	2	SSCREEN	KPF: hbv_core
HBSAG	Char	2	SSCREEN	KPF: hbv_sur_antigen
HBV	Char	1	SYNUFMT	KPF: hbv
HBV_CLINICAL	Char	2	SYNUFMT	KPF: hbv_clinical
HBV_LI_HIST	Char	2	SSCREEN	KPF: hbv_li_hist
HBVDNA	Char	2	SSCREEN	KPF: hbv_dna
HCRIBA	Char	2	SSCREEN	KPF: hcv_riba
HCSCRN	Char	2	SSCREEN	KPF: hcv_antibody
HCV	Char	1	SYNUFMT	KPF: hcv
HCV_CLINICAL	Char	2	SYNUFMT	KPF: hcv_clinical
HCV_LI_HIST	Char	2	SSCREEN	KPF: hcv_li_hist
HCVRNA	Char	2	SSCREEN	KPF: hcv_rna
HGT	Num	8		KPF: TRF HEIGHT IN CENTIMETERS
HGTIND	Char	1	STRIND	KPF: TRF HEIGHT IN CENTIMETERS/STATUS
HIV	Char	1	SYNUFMT	KPF: hiv
HIV_ANTIBODY	Char	2	SSCREEN	KPF: hiv_antibody
HIV_CLINICAL	Char	2	SYNUFMT	KPF: hiv_clinical
HIV_RNA	Char	2	SSCREEN	KPF: hiv_rna
HIVCNF	Char	2	SSCREEN	KPF: hiv_conf_readonly
HIVSCRN	Char	2	SSCREEN	KPF: hiv_scrn_readonly
HOSP	Char	1	SYNUFMT	KPF: TRF HOSPITALIZATIONS DURING FOLLOW-UP PERIOD
HOSPSTUS	Char	1	STRIND	KPF: TRF NUMBER OF HOSPITALIZATIONS/STATUS
IM_DISC	Char	1	SYNUFMT	KPF: TRF IF NO MAINT MEDS, DID PHYS. DISC. ALL IMMUNO MEDS
INFECT_KI	Char	1	SYNUFMT	KPF: infect_ki
INFECT_PA	Char	1	SYNUFMT	KPF: infect_pa
INSULIN_RES	Num	8	METHBLD	KPF: insulin_res
MAINTMED	Num	8	IMMOR	KPF: TRF ANY MEDS GIVEN DURING FOLLOW-UP FOR MAINTENANCE OR ANTI-REJECTION?
MALIG	Char	1	SYNUFMT	KPF: TRF POST TRANSPLANT MALIGNANCY
MBR_VERIFY_DT	Num	8	MMDDYY	KPF:
MEDICATION_RES_DT	Num	8	MMDDYY	KPF:
MNTDPROV	Char	10	\$	KPF: dial_prv_num
NONCMPL	Char	1	SYNUFMT	KPF: TRF PATIENT NONCOMPLIANT DURING THIS FOLLOW-UP PERIOD
NUM_HOSP	Num	8		KPF: TRF NUMBER OF HOSPITALIZATIONS
ORGTYP	Char	4	SORG_TYP	KPF: TRF ORGAN TYPE
OTH_COMPL_OSTXT	Char	50	\$	KPF: oth_compl_ostxt
OTHGF_KI	Char	50	\$	KPF: oth_grf_fail_cause_ki_ostxt
OTHGF_PA	Char	50	\$	KPF: oth_grf_fail_cause_pa_ostxt
PANCREATIT	Char	1	SYNUFMT	KPF: pancreatit
PASTAT	Char	1	SPXSTII	KPF: TRF PATIENT STATUS
PASTATDT	Num	8	MMDDYY	KPF: TRF PATIENT STATUS/DATE
PHYSICAL_CAPACITY	Num	8	PHYSCAP	KPF: physical_capacity
POLYOMA	Char	1	SYNUFMT	KPF: polyoma
POLYOMA_VIRUS	Num	8	TREATBK	KPF: polyoma_virus
POLYOMA_VIRUS_OSTXT	Char	50	\$	KPF: polyoma_virus_ostxt
PREXTUM	Char	1	SYNUFMT	KPF: TRF RECURRENCE OF PRE-TX TUMOR
PRI_PAYMENT	Num	8	PRIPAY	KPF: pri_payment

TXFUUNOS_KP: Kidney Pancreas Transplant Follow-up-UNOS (continued)

Variable	Type	Length	Format	Comment
PRI_PAYMENT_CTRY	Char	3	SCTRY	KPF: pri_payment_ctry
PROVUSRD	Num	8	BEST	KPF: USRDS Assigned Follow-up Center Facility ID
PX_NON_COMPL_KI	Char	1	SYNUFMT	KPF: px_non_compl_ki
PX_NON_COMPL_PA	Char	1	SYNUFMT	KPF: px_non_compl_pa
PXRESRH	Char	1	SYNUFMT	KPF: TRF DID PX PARTICIPATE IN RESEARCH FOR IMMUNO MEDS
PXRESTXT	Char	50	S	KPF: TRF SPECIFY RESEARCH FOR IMMUNO MEDS.
RDOB	Num	8	MMDDYY	KPF: DATE OF BIRTH
RECDIS	Char	1	SYNUFMT	KPF: recur_disease
RETX_ORG	Char	2	ORG_TYP	KPF: retx_org
RSEX	Char	1	S	KPF: GENDER
SEROLOGY	Char	1	SYNUFMT	KPF: viruses_tested
SERUM_AMY	Num	8		KPF: serum_amy
SERUM_AMY_I	Char	1	STRIND	KPF: serum_amy_i
TDATE	Num	8	MMDDYY	KPF: TRANSPLANT DATE
THERAPIES	Char	1	SYNUFMT	KPF: therapies
THERAPIES_TREATMENT	Num	8	OTHOTHER	KPF: therapies_treatment
TRR_ID	Num	8		KIR: TRR PRIMARY RECORD KEY
TRRFU_ID	Num	8		KPF: TRF PRIMARY RECORD KEY
URINE_PROTEIN	Char	1	SYNUFMT	KPF: urine_protein
URLCOMP	Char	1	SYNUFMT	KPF: urol_compl
USRDS_ID	Num	8	BEST	USRDS_ID
WGT	Num	8		KPF: TRF WEIGHT IN KILOGRAMS
WGTIND	Char	1	STRIND	KPF: TRF WEIGHT IN KILOGRAMS/STATUS
WORK_INCOME	Char	1	SYNUFMT	KPF: work_income
WORK_NO_STATUS	Num	8	NOTWORK	KPF: work_no_status
WORK_YES_STATUS	Num	8	WORKINC	KPF: work_yes_status

TXIFUNOS: Transplant Followup with Immunosuppression -UNOS

Includes post-transplant time (i.e., followup time) and the recipients' immunosuppression drug using information collected by UNOS. A transplant followup patient may have multiple records in a followup event. Includes transplant followup reports collected by UNOS.

Variable	Type	Length	Format	Comment
RX_ATREJ	Num	8	T_F	IMF: Anti-Rejection
RX_CD	Num	8	DRUG	IMF: TRF DRUG CODE
RXMNTCUR	Num	8	T_F	IMF: DRUG MAINT CURRENT
RXMNTPRE	Num	8	T_F	IMF: DRUG MAINT PREV
TRRFIMID	Num	8		IMF: TRF RECORD KEY
TRRFU_ID	Num	8		IMF: TRR FOLLOW UP ID
USRDS_ID	Num	8	BEST	USRDS_ID
RX_ATREJ	Num	8	T_F	IMR: Anti-Rejection
RX_CD	Num	8	DRUG	IMR: TRR DRUG CODE
RX_DAYS	Num	8		IMR: TRR NUMBER OF DAYS
RX_DAYS1	Char	1	STRIND	IMR: TRR NUMBER OF DAYS/STATUS
RX_IND	Num	8	T_F	IMR: Induction
RX_MAINT	Num	8	T_F	IMR: Maintenance
TRR_ID	Num	8		IMR: TRR PRIMARY RECORD KEY
TRRIM_ID	Num	8		IMR: TRR RECORD KEY
USRDS_ID	Num	8	BEST	USRDS_ID

TXIRUNOS: Transplant with Immunosuppression at Registration-UNOS

Includes transplant recipients and immunosuppression drug(s) using information collected by UNOS. Transplant recipients may have multiple records for a transplant event.

Variable	Type	Length	Format	Comment
USRDS_ID	Num	8	BEST	USRDS_ID
RX_ATREJ	Num	8	T_F	IMR_KI: Anti-Rejection
RX_CD	Num	8	DRUG	IMR: TRR Drug Code
RX_DAYS	Num	8		IMR:TRR Number of Days
RX_DAYSI	Char	1	STRIND	IMR: TRR Number of Days/Status
RX_IND	Num	8	T_F	IMR_KI: Induction
RX_MAINT	Num	8	T_F	IMR_KI: Maintenance
TRR_ID	Num	8		IMR: TRR Foreign Record Key
TRRIM_ID	Num	8		IMR: TRR Record Key

TXFUHCFA: Kidney Transplant Follow-ups

Includes transplant follow-up reports collected by CMS before 1994. Reports are completed at discharge, six months, each year post-transplant, and graft failure.

Variable	Type	Length	Format	Comment
ALG	Char	1	SYNUFMT	TFU 23D Antithymocyte globulin (ALG)
ALIVE	Char	1	SYNUFMT	TFU 10 Is patient alive?
CLINREJ	Char	1	SYNUFMT	TFU 24 Episodes of clinical rejection
CURCRETN	Num	8		TFU 25B Most recent creat reading
CYSPORIN	Char	1	SYNUFMT	TFU 23G Cyclosporine used
CYTOXAN	Char	1	SYNUFMT	TFU 23B Cytoxan used
DIALYSIS	Char	1	SYNUFMT	TFU 16 Dialysis performed?
DIED	Num	8	DATE	TFU 11 Death date
FUDATE	Num	8	DATE	TFU/UNOS Follow-up date USRDS computed
FUNUM	Num	8	FUNUM	TFU 09:Follow-up number
GFAIL	Char	1	SYNUFMT	TFU 17 Did graft fail?
GFAILDAT	Num	8	DATE	TFU 18 Graft failure date
GFDIAL	Char	1	SYNUFMT	TFU 19B Failure: Retnd to dialysis
GFRES1	Char	3	SGFAIL	TFU 20A Graft Fail reason, primary
GFRES2	Char	3	SGFAIL	TFU 20B Graft Fail reason, secondary
GFTX	Char	1	SYNUFMT	TFU 19A Failure: Transplant
GREM	Char	1	SYNUFMT	TFU 21 Graft removed
GREMDATE	Num	8	DATE	TFU 22 Date graft removed
IMURAN	Char	1	SYNUFMT	TFU 23A Imuran (azathioprine) used
IRRAD	Char	1	SYNUFMT	TFU 23E Irradiation used
LTFU	Char	1	SYNUFMT	TFU 12 Lost to follow-up
LTFUDATE	Num	8	DATE	TFU 13 Lost to follow-up: date last seen
MAXCRETN	Num	8		TFU 25A Maximum creat reading
NETWORK	Char	2	SNETFMT	TFU ESRD Network number (pre 1994 update)
NPRVUSRD	Num	8		New Prov no.if transferred - USRDS assign
OTH_IMMU	Char	25		TFU 23H Other immunosuppressive therapy
OTHGRFFL	Char	1	SYNUFMT	TFU 19C Failure: Other
PREDNSNE	Char	1	SYNUFMT	TFU 23C Prednisone used
REHAB	Char	2	SREHAB	TFU 14 Rehabilitation code
REMARKS	Char	1	SYNUFMT	TFU 26 Remarks on form?
SOLUMED	Char	1	SYNUFMT	TFU 23F Solumedrol used
TDATE	Num	8	DATE	TFU 08 Transplant Date
TFERDATE	Num	8	DATE	TFU 15C Patient transferred date
TPRVUSRD	Num	8		Transplant Provider no. - USRDS assigned
TRANSFER	Char	1	SYNUFMT	TFU 15 Patient transferred?
USRDS_ID	Num	8	BEST	USRDS assigned patient ID

TXHCFA: Kidney Transplant-HCFA

Includes transplant followup reports collected by CMS prior to 1994. Reports are completed at discharge, six months, each year post-transplant, and graft failure.

Variable	Type	Length	Format	Comment
BUN	Num	8		PM819428 Most Rec BUN
COLDTIME	Num	8		PM819430 Cold Time
CREATDEC	Char	1		PM819419 Creat decline
CULDATE	Num	8	DATE	PM768016a Culture Date
CYCLOPH	Char	1	SYNUFMT	PM819432a Donor pretreat Cyclophos
DA1	Char	4		PM7694 HLA Locus A1 Donor
DA2	Char	4		PM7694 HLA Locus A2 Donor
DAGE	Num	8	BEST	PM7694 Donor age
DB1	Char	4		PM7694 HLA Locus B1 Donor
DB2	Char	4		PM7694 HLA Locus B2 Donor
DBLOODTY	Char	1	SPMBLD	PM7694 Donor blood type
DC1	Char	4		PM7694 HLA Locus C1 Donor
DC2	Char	4		PM7694 HLA Locus C2 Donor
DCANCER	Char	1	SDCANC	PM819426 Donor cancer at time of harvest
DCMV	Char	1	SYNUFMT	PM819425 Donor CMV antibody
DDR1	Char	4		PM819427 HLA Locus DR1 Donor
DDR2	Char	4		PM819427 HLA Locus DR2 Donor
DETHNIC	Char	1	SPMETHN	PM819424b Ethnicity Donor
DHAPLO	Char	1	SYNUFMT	PM819427 HLA Haplotype Donor
DHBS	Char	1	SYNUFMT	PM819425 Donor HBsAg positive
DINFECT	Char	1	SDINFEC	PM819425 Donor infections at time of har
DIURETIC	Char	1	SYNUFMT	PM819432a Donor pretreat Diuretics
DMB1	Char	4		PM819427 HLA Locus MB1 Donor
DMB2	Char	4		PM819427 HLA Locus MB2 Donor
DONREL_P	Char	1	SDTYPEDT	PM768010 Donor Type Detail
DRACE	Char	1	SRACEFMT	PM7694 Donor race
DSEX	Char	1	SSEXFMT	PM7694 Donor sex
DTYPE	Char	1	SDON_P	USRDS recoded DTYPE
DTYPE_P	Char	1	SDON_P	M819420a Donor Type
FROZBLOD	Char	1		PM819417b Frozen blood only used
HEPARIN	Char	1	SYNUFMT	PM819432a Donor pretreat Heparin
LASIX	Char	1	SYNUFMT	PM819432a Donor pretreat Lasix
LCRESULT	Char	1	SLCRES	PM768016 Lymphocyte Culture Results
LOCAL_P	Char	1		PM819420b Local or shared if cad
LRHAPLO	Char	1	SLHAP	PM819420c Haplo match if liv don
MANNITOL	Char	1	SYNUFMT	PM819432a Donor pretreat Mannitol
MET_CYC	Char	1	SYNUFMT	PM819432a Donor pretreat Methyl & Cycl
MLC1WAY	Char	1	SMLC	PM819411a MLC one-way
MLC2WAY	Char	1	SMLC	PM819411a MLC two-way
NEPDATE	Num	8	DATE	PM819412b Nephrectomy date
NEPHREC	Char	1	SNEPH	PM819412a Nephrectomy
NEPHRREA	Char	5	SNEPHREA	PM819413 Nephrectomy reason
NO_MLC	Char	1		PM819411a MLC not done
OTHERPRE	Char	1	SYNUFMT	PM819432a Other donor pretreatment
POSEVER	Char	1	SYNUFMT	PM819415 HBsAg positive ever
POSNOW	Char	1	SYNUFMT	PM819415 HBsAg positive now
PRA	Num	8		PM819410 PRA at transplant
PRAHIGH	Num	8		PM819410 PRA high
PREG	Num	8		PM8194 4b Pregnancy Number
PREVTX	Num	8	BEST	PM7681 Number of previous tx
PREXFUS	Char	1		PM819417a Pre-tx blood transfusions
PRIOHARV	Char	1	SPRIOR	PM819432b Time prior to harvest
PROVUSRD	Num	8		USRDS assigned Facility ID
PULSTIME	Num	8		PM819431 Pulsatile Perf Time
RA1	Char	4		PM7694 HLA Locus A1 Recip
RA2	Char	4		PM7694 HLA Locus A2 Recip
RACE	Char	1	SRACEFMT	PM7694 Recip race
RB1	Char	4		PM7694 HLA Locus B1 Recip
RB2	Char	4		PM7694 HLA Locus B2 Recip
RBLOODTY	Char	1	SPMBLD	PM7694 Recip. blood type
RC1	Char	4		PM7694 HLA Locus C1 Recip
RC2	Char	4		PM7694 HLA Locus C2 Recip

TXHCFA: Kidney Transplant-HCFA (continued)

Variable	Type	Length	Format	Comment
RCMV	Char	1	SYNUFMT	PM819416 Recip. CMV antibody present
RDR1	Char	4		PM819411b HLA Locus DR1 Recip
RDR2	Char	4		PM819411b HLA Locus DR2 Recip
RES1WAY	Num	8		PM819411a Rel. Response one-way
RES2WAY	Num	8		PM819411a Rel. Response two-way
RETHNIC	Char	1	SPMETHN	PM8194 5b Ethnicity Recip
RFI	Char	1	SRFIFMT	Record Format, Pre or Post 1981
RHAPLO	Char	1	SYNUFMT	PM819411b HLA Hapltyped Recip
RHBSAG	Char	1	SYNUFMT	PM819415 Antibody to HBsAg
RMB1	Char	4		PM819411b HLA Locus MB1 Recip
RMB2	Char	4		PM819411b HLA Locus MB2 Recip
SERCREAT	Num	8		PM819428 Most Rec Ser Creat
SPLDATE	Num	8	DATE	PM819414b Splenectomy date
SPLENECT	Char	1	SYNUFMT	PM819414a Splenectomy
STERIODS	Char	1	SYNUFMT	PM819432a Donor pretreat Steroids
STIMIND1	Num	8		PM819411a Stim. Index one-way
STIMIND2	Num	8		PM819411a Stim. Index two-way
TDATE	Num	8	DATE	PM7694 Transplant Date
TSTATUS	Char	1	STSTAT	PM8194 6b Transplant Status
USRDS_ID	Num	8	BEST	USRDS assigned patient ID
WARMTIME	Num	8		PM819429 Warm Ischemia Time
XFUDATE	Num	8	DATE	PM819417c Last transfusion date
XFUSNUMB	Num	8		PM819417a Number of pre-tx blood trans
XFUSXPLT	Char	1		PM819418 Transfusion at Tx
XMATCH	Char	1		PM768015 Cross Match Results
YEAR	Num	8		

HOSPITAL CD-1

HOSPI: Hospitalization 1

Hospitalization inpatient data from the USRDS database are a subset of the data in the Institutional Claims file. No payment or cost variables are included on this CD. This CD is for researchers who need data on hospital inpatient stays and on diagnoses and procedures for those stays but who do not need payment data.

Variable	Type	Length	Format	Comment
CLM_FROM	Num	8	MMDDYY	From date of service
CLM_THRU	Num	8	MMDDYY	Service through date
DIALSESS	Num	8		Dialysis sessions
DISCSTAT	Char	2	SDRG_DES	Status and destination at Discharge
DRG_CD	Char	3	SDRGLAB	DRG code
HCFASAF	Char	1	\$HCFASAF	HCFA SAF source of this bill
HSDIAG1	Char	5	\$ICD9D	Diagnosis code 1
HSDIAG2	Char	5	\$ICD9D	Diagnosis code 2
HSDIAG3	Char	5	\$ICD9D	Diagnosis code 3
HSDIAG4	Char	5	\$ICD9D	Diagnosis code 4
HSDIAG5	Char	5	\$ICD9D	Diagnosis code 5
HSDIAG6	Char	5	\$ICD9D	Diagnosis code 6
HSDIAG7	Char	5	\$ICD9D	Diagnosis code 7
HSDIAG8	Char	5	\$ICD9D	Diagnosis code 8
HSDIAG9	Char	5	\$ICD9D	Diagnosis code 9
HSDIAG10	Char	5	\$ICD9D	Diagnosis code 10
HSSURG1	Char	5	\$ICD9P	Surgical procedure code 1
HSSURG2	Char	5	\$ICD9P	Surgical procedure code 2
HSSURG3	Char	5	\$ICD9P	Surgical procedure code 3
HSSURG4	Char	5	\$ICD9P	Surgical procedure code 4
HSSURG5	Char	5	\$ICD9P	Surgical procedure code 5
HSSURG6	Char	5	\$ICD9P	Surgical procedure code 6
HSSURG7	Char	5	\$ICD9P	Surgical procedure code 7
HSSURG8	Char	5	\$ICD9P	Surgical procedure code 8
HSSURG9	Char	5	\$ICD9P	Surgical procedure code 9
HSSURG10	Char	5	\$ICD9P	Surgical procedure code 10
MEDCODE	Char	1	\$MEDCODE	Version of ICD9 coding
NUMDIAG	Num	8		Number of diagnosis codes recorded
NUMSURG	Num	8		Number of surgical codes recorded
PRIMDIAG	Char	1	SYESNO	First diagnosis is primary
RXCAT	Char	1	\$RXCATIC	Dialysis treatment modality
USRDS_ID	Num	8	BEST	USRDS patient ID number

HOSPITAL CD-2

HOSP2: Hospitalization 2

Hospitalization inpatient data from the USRDS database are a subset of the data in the Institutional Claims file. No payment or cost variables are included on this CD. This CD is for researchers who need data on hospital inpatient stays and on diagnoses and procedures for those stays but who do not need payment data.

Variable	Type	Length	Format	Comment
CLM_FROM	Num	8	MMDDYY	From date of service
CLM_THRU	Num	8	MMDDYY	Service through date
DIALSESS	Num	8		Dialysis sessions
DISCSTAT	Char	2	\$DRG_DES	Status and destination at Discharge
DRG_CD	Char	3	\$DRGLAB	DRG code
HCFASAF	Char	1	\$HCFASAF	HCFA SAF source of this bill
HSDIAG1	Char	5	\$ICD9D	Diagnosis code 1
HSDIAG2	Char	5	\$ICD9D	Diagnosis code 2
HSDIAG3	Char	5	\$ICD9D	Diagnosis code 3
HSDIAG4	Char	5	\$ICD9D	Diagnosis code 4
HSDIAG5	Char	5	\$ICD9D	Diagnosis code 5
HSDIAG6	Char	5	\$ICD9D	Diagnosis code 6
HSDIAG7	Char	5	\$ICD9D	Diagnosis code 7
HSDIAG8	Char	5	\$ICD9D	Diagnosis code 8
HSDIAG9	Char	5	\$ICD9D	Diagnosis code 9
HSDIAG10	Char	5	\$ICD9D	Diagnosis code 10
HSSURG1	Char	5	\$ICD9P	Surgical procedure code 1
HSSURG2	Char	5	\$ICD9P	Surgical procedure code 2
HSSURG3	Char	5	\$ICD9P	Surgical procedure code 3
HSSURG4	Char	5	\$ICD9P	Surgical procedure code 4
HSSURG5	Char	5	\$ICD9P	Surgical procedure code 5
HSSURG6	Char	5	\$ICD9P	Surgical procedure code 6
HSSURG7	Char	5	\$ICD9P	Surgical procedure code 7
HSSURG8	Char	5	\$ICD9P	Surgical procedure code 8
HSSURG9	Char	5	\$ICD9P	Surgical procedure code 9
HSSURG10	Char	5	\$ICD9P	Surgical procedure code 10
MEDCODE	Char	1	\$MEDCODE	Version of ICD9 coding
NUMDIAG	Num	8		Number of diagnosis codes recorded
NUMSURG	Num	8		Number of surgical codes recorded
PRIMDIAG	Char	1	\$YESNO	First diagnosis is primary
RXCAT	Char	1	\$RXCATIC	Dialysis treatment modality
USRDS_ID	Num	8	BEST	USRDS patient ID number

DMMS CLAIMS CD-1

HOSP: Hospitalization

Hospitalization inpatient data from the USRDS database are a subset of the data in the Institutional Claims file. No payment or cost variables are included on this CD. This CD is for researchers who need data on hospital inpatient stays and on diagnoses and procedures for those stays but who do not need payment data.

Variable	Type	Length	Format	Comment
CLM_FROM	Num	8	MMDDYY	From date of service
CLM_THRU	Num	8	MMDDYY	Service through date
DIALSESS	Num	8		Dialysis sessions
DISCSTAT	Char	2	SDRG_DES	Status and destination at Discharge
DRG_CD	Char	3	SDRGLAB	DRG Code
HCFASAF	Char	1	\$HCFASFI	HCFA SAF source of this bill
HSDIAG1	Char	5	\$ICD9D	Diagnosis code 1
HSDIAG2	Char	5	\$ICD9D	Diagnosis code 2
HSDIAG3	Char	5	\$ICD9D	Diagnosis code 3
HSDIAG4	Char	5	\$ICD9D	Diagnosis code 4
HSDIAG5	Char	5	\$ICD9D	Diagnosis code 5
HSDIAG6	Char	5	\$ICD9D	Diagnosis code 6
HSDIAG7	Char	5	\$ICD9D	Diagnosis code 7
HSDIAG8	Char	5	\$ICD9D	Diagnosis code 8
HSDIAG9	Char	5	\$ICD9D	Diagnosis code 9
HSDIAG10	Char	5	\$ICD9D	Diagnosis code 10
HSSURG1	Char	5	\$ICD9P	Surgical procedure code 1
HSSURG2	Char	5	\$ICD9P	Surgical procedure code 2
HSSURG3	Char	5	\$ICD9P	Surgical procedure code 3
HSSURG4	Char	5	\$ICD9P	Surgical procedure code 4
HSSURG5	Char	5	\$ICD9P	Surgical procedure code 5
HSSURG6	Char	5	\$ICD9P	Surgical procedure code 6
HSSURG7	Char	5	\$ICD9P	Surgical procedure code 7
HSSURG8	Char	5	\$ICD9P	Surgical procedure code 8
HSSURG9	Char	5	\$ICD9P	Surgical procedure code 9
HSSURG10	Char	5	\$ICD9P	Surgical procedure code 10
MEDCODE	Char	1	\$MEDCODE	Version of ICD9 coding
NUMDIAG	Num	8		Number of diagnosis codes recorded
NUMSURG	Num	8		Number of surgical codes recorded
PRIMDIAG	Char	1	\$YESNO	First diagnosis is primary
RXCAT	Char	1	\$RXCATIC	Dialysis treatment modality
SEQ_KEYC	Char	2		Sequence # to ensure unique key
USRDS_ID	Num	8	BEST	USRDS patient ID number

INCLAIM: Institutional Claims*Consists of all Part A Claims*

Variable	Type	Length	Format	Comment
CLM_AMT	Num	8		Medicare payments
CLM_FROM	Num	8	MMDDYY	From date of service
CLM_THRU	Num	8	MMDDYY	Service through date
CLM_TOT	Num	8		Total charges
CVR_DCNT	Num	8	BEST	Medicare covered days-use with PER_DIEM
DIALCASH	Num	8		Claim amounts for dialysis
DIALCRC	Char	1	\$DIALCRC	Claim related condition for dialysis
DIALRVC	Char	2	\$DIALRVC	Revenue center code for dialysis
DIALSESS	Num	8		Dialysis sessions reported
DISCSTAT	Char	2	\$DRG_DES	Discharge status
DRG_CD	Char	3	\$DRGLAB	Diagnosis Related Group code
EPOADMIN	Num	8		EPO administrations
EPOCASH	Num	8		Claim amounts for EPO
EPODOSE	Num	8	BEST	Epo dose
HCFASAF	Char	1	\$HCFASAF	HCFA SAF source of this bill
HCRIT	Num	8		Hematocrit
PER_DIEM	Num	8	BEST	Per diem pass through amount
PRM_PYR	Char	1	\$PRPAYR	Primary payer for this bill
PROVUSRD	Num	8		USRDS provider ID number
RXCAT	Char	1	\$RXCATIC	Dialysis treatment modality
SEQ_KEYC	Char	2	\$	Sequence # to ensure unique key
USRDS_ID	Num	8	BEST	USRDS Assigned Patient ID

DMMS CLAIMS CD-2***INDETAIL: Institutional Claim Details***

Contains details like DRG, diagnoses, and procedures. For many analyses, the Claims Details file will not be needed.

Variable	Type	Length	Format	Comment
CDTYPE	Char	1	SCDTYPEI	Code type
CLM_FROM	Num	8	MMDDYY	claim from date
CODE	Char	5		Code value
HCFASAF	Char	1	SHCFASAF	HCFASAF
HCPCS	Char	5		hcf common procedure coding system code
REV_CH	Num	8	BEST	Total charges
REVPMT	Num	8		Rev Cntr Paymant Amout, Effective I
SEQ_KEYC	Char	2		SEQ_KEYC
UNITS	Num	8	BEST	Units
URR_CD	Char	8	SURRFMT	
USRDS_ID	Num	8	BEST	USRDS Assigned Patient ID

DMMS CLAIMS CD-3

PSCLAIM1: Physician/Supplier claims

All the physician/supplier claims are Medicare Part B. There is one type of file with one record for each claim line-item. The files includes dollar amount, dates of service, diagnosis and procedure codes, type, and place of service.

Variable	Type	Length	Format	Comment
ALLOWCH	Num	8		Allowed charges
CDTYPE	Char	1	\$CDTYPEP	Line Item Type
CLM_FROM	Num	8	MMDDYY	From date of service
CLM_THRU	Num	8	MMDDYY	Thru date of service
DIAG	Char	5	\$	ICD-9-Cm Diagnostic code
HCFASAF	Char	1	\$HCFASFP	HCFA SAF source of this bill
HCPCS	Char	5	\$	HCPCS Code
HCSRVC	Char	1	\$HCFASVC	HCFA Service Code
MOD1	Char	2		HCPCS/CPT 1st Modifier
MOD2	Char	2		HCPCS/CPT 2nd Modifier
MOD3	Char	2		HCPCS/CPT 3rd Modifier
MOD4	Char	2		HCPCS/CPT 4th Modifier
PLCSRV	Char	2	\$PLACESV	Place of Service
PMTAMT	Num	8		Claim Payment Amount
PYRCOD	Char	1	\$PRPAYR	Primary Payer code
SBMTCH	Num	8		Submitted Charges
SPCLTY	Char	2	\$PROVSP	Provider Specialty Code
SRVCCT	Num	8		Total Number Line Item Services
USRDS_ID	Num	8	BEST	USRDS patient ID number

DMMS CLAIMS CD-4**PSCLAIM 2**

All the physician/supplier claims are Medicare Part B. There is one type of file with one record for each claim line-item. The files includes dollar amount, dates of service, diagnosis and procedure codes, type, and place of service.

Variable	Type	Length	Format	Comment
ALOWCH	Num	8		Allowed charges
CDTYPE	Char	1	\$CDTYPEP	Line Item Type
CLM_FROM	Num	8	MMDDYY	From date of service
CLM_THRU	Num	8	MMDDYY	Thru date of service
DIAG	Char	5	\$	ICD-9-Cm Diagnostic code
HCFASAF	Char	1	\$HCFASFP	HCFA SAF source of this bill
HCPCS	Char	5	\$	HCPCS Code
HCSRVC	Char	1	\$HCFASVC	HCFA Service Code
MOD1	Char	2		HCPCS/CPT 1st Modifier
MOD2	Char	2		HCPCS/CPT 2nd Modifier
MOD3	Char	2		HCPCS/CPT 3rd Modifier
MOD4	Char	2		HCPCS/CPT 4th Modifier
PLCSRV	Char	2	SPLACESV	Place of Service
PMTAMT	Num	8		Claim Payment Amount
PYRCOD	Char	1	\$PRPAYR	Primary Payer code
SBMTCH	Num	8		Submitted Charges
SPCLTY	Char	2	\$PROVSP	Provider Specialty Code
SRVCCT	Num	8		Total Number Line Item Services
USRDS_ID	Num	8	BEST	USRDS patient ID number

CASE MIX ADEQUACY CD

HOSP: Hospitalization

Hospitalization inpatient data from the USRDS database are a subset of the data in the Institutional Claims file. No payment or cost variables are included on this CD. This CD is for researchers who need data on hospital inpatient stays and on diagnoses and procedures for those stays but who do not need payment data.

Variable	Type	Length	Format	Comment
CLM_FROM	Num	8	MMDDYY	From date of service
CLM_THRU	Num	8	MMDDYY	Service through date
DIALSESS	Num	8		Dialysis sessions
DISCSTAT	Char	2	SDRG_DES	Status and destination at Discharge
DRG_CD	Char	3	SDRGLAB	DRG code
HCFASAF	Char	1	\$HCFASAF	HCFA SAF source of this bill
HSDIAG1	Char	5	\$ICD9D	Diagnosis code 1
HSDIAG2	Char	5	\$ICD9D	Diagnosis code 2
HSDIAG3	Char	5	\$ICD9D	Diagnosis code 3
HSDIAG4	Char	5	\$ICD9D	Diagnosis code 4
HSDIAG5	Char	5	\$ICD9D	Diagnosis code 5
HSDIAG6	Char	5	\$ICD9D	Diagnosis code 6
HSDIAG7	Char	5	\$ICD9D	Diagnosis code 7
HSDIAG8	Char	5	\$ICD9D	Diagnosis code 8
HSDIAG9	Char	5	\$ICD9D	Diagnosis code 9
HSDIAG10	Char	5	\$ICD9D	Diagnosis code 10
HSSURG1	Char	5	\$ICD9P	Surgical procedure code 1
HSSURG2	Char	5	\$ICD9P	Surgical procedure code 2
HSSURG3	Char	5	\$ICD9P	Surgical procedure code 3
HSSURG4	Char	5	\$ICD9P	Surgical procedure code 4
HSSURG5	Char	5	\$ICD9P	Surgical procedure code 5
HSSURG6	Char	5	\$ICD9P	Surgical procedure code 6
HSSURG7	Char	5	\$ICD9P	Surgical procedure code 7
HSSURG8	Char	5	\$ICD9P	Surgical procedure code 8
HSSURG9	Char	5	\$ICD9P	Surgical procedure code 9
HSSURG10	Char	5	\$ICD9P	Surgical procedure code 10
MEDCODE	Char	1	\$MEDCODE	Version of ICD9 coding
NUMDIAG	Num	8		Number of diagnosis codes recorded
NUMSURG	Num	8		Number of surgical codes recorded
PRIMDIAG	Char	1	YESNO	First diagnosis is primary
RXCAT	Char	1	SRXCATIC	Dialysis treatment modality
SEQ_KEYC	Char	2		Sequence # to ensure unique key
USRDS_ID	Num	8	BEST	USRDS patient ID number

INCLAIM: Institutional Claims*Consists of all Part A Claims*

Variable	Type	Length	Format	Comment
CLM_AMT	Num	8	F	Medicare payments
CLM_FROM	Num	8	MMDDYY	From date of service
CLM_THRU	Num	8	MMDDYY	Service through date
CLM_TOT	Num	8	F	Total charges
CVR_DCNT	Num	8	BEST	Medicare covered days-use with PER_DIEM
DIALCASH	Num	8	F	Claim amounts for dialysis
DIALCRC	Char	5	SDIALCRC	Claim related condition for dialysis
DIALREVC	Char	5	SDIALRVC	Revenue center code for dialysis
DIALSESS	Num	8	F	Dialysis sessions reported
DISCSTAT	Char	2	SDRG_DES	Discharge status
DRG_CD	Char	3	SDRGLAB	Diagnosis Related Group code
EPOADMIN	Num	8	F	EPO administrations
EPOCASH	Num	8	F	Claim amounts for EPO
EPODOSE	Num	8	BEST	Epo dose
HCFASAF	Char	1	SHCFASAF	HCFA SAF source of this bill
HCRIT	Num	8	F	Hematocrit
PER_DIEM	Num	8	BEST	Per diem pass through amount
PRM_PYR	Char	1	SPRPAYR	Primary payer for this bill
PROVUSRD	Num	8	F	USRDS provider ID number
RXCAT	Char	1	SRXCATIC	Dialysis treatment modality
SEQ_KEYC	Char	2	S	Sequence # to ensure unique key
USRDS_ID	Num	8	BEST	USRDS patient ID number

INDETAIL: Institutional Claim Details

Contains details like DRG, diagnoses, and procedures. For many analyses, the Claims Details file will not be needed.

Variable	Type	Length	Format	Comment
CDTYPE	Char	1	SCDTYPEI	Code type
CLM_FROM	Num	8	MMDDYY	claim from date
CODE	Char	5		Code value
HCFASAF	Char	1	\$HCFASAF	HCFASAF
HCPCS	Char	5		hcfa common procedure coding system code
REV_CH	Num	8	BEST	Total charges
REVPMT	Num	8		Rev Cntr Paymant Amout, Effective I
SEQ_KEYC	Char	2	\$	SEQ_KEYC
UNITS	Num	8	BEST	Units
URR_CD	Char	8	SURRFMT	
USRDS_ID	Num	8	BEST	USRDS patient ID number

PSCLAIM: Physician/Supplier claims

Contains all the physician/supplier claims of the Case Mix patients. There is one type of file with one record for each claim line-item. The files include dollar amounts, dates of service, diagnosis and procedure codes, type, and place of service.

Variable	Type	Length	Format	Comment
ALOWCH	Num	8		Allowed charges
CDTYPE	Char	1	\$HCCDTYP	Line Item Type
CLM_FROM	Num	8	MMDDYY	From date of service
CLM_THRU	Num	8	MMDDYY	Thru date of service
DIAG	Char	5		ICD-9-cm Diagnostic code
HCFASAF	Char	1	\$HCFASAF	HCFA SAF source of this bill
HCPCS	Char	5		HCPCS code
HCSRVC	Char	1	\$HCFASVC	HCFA service code
MOD1	Char	2		HCPCS/CPT 1st Modifier
MOD2	Char	2		HCPCS/CPT 2nd Modifier
MOD3	Char	2		HCPCS/CPT 3rd Modifier
MOD4	Char	2		HCPCS/CPT 4th Modifier
PLCSRVS	Char	2	\$PLACESV	Place of Service
PMTAMT	Num	8		Claim Payment Amount
PYRCOD	Char	1	\$PRPAYR	Primary Payer code
SBMTCH	Num	8		Submitted Charges
SPCLTY	Char	2	\$PROVSP	Provider Specialty Code
SRVCTT	Num	8		Total Number Line Item Services
USRDS_ID	Num	8	BEST	USRDS patient ID number

MEDICARE INSTITUTIONAL DETAIL CLAIMS CD***INC2005: Institutional Claims****Consists of all Part A Claims of all ESRD patients.*

Variable	Type	Length	Format	Comment
CLM_AMT	Num	8	BEST	Medicare payments
CLM_FROM	Num	8	DATE	From date of service
CLM_THRU	Num	8	DATE	Service through date
CLM_TOT	Num	8	BEST	Total charges
CVR_DCNT	Num	8	BEST	Medicare covered days-use with PER_DIEM
DIALCASH	Num	8	BEST	Claim amounts for dialysis
DIALCRC	Char	5	\$DIALCRC	Claim related condition for dialysis
DIALRVC	Char	5	\$DIALRVC	Revenue center code for dialysis
DIALSESS	Num	8	BEST	Dialysis sessions reported
DISCSTAT	Char	2	\$DRG_DES	Discharge status
DRG_CD	Char	3	\$DRGLAB	Diagnosis Related Group code
EPOADMIN	Num	8	BEST	Number of EPO administrations
EPOCASH	Num	8	BEST	Total Charge for EPO on this claim
EPODOSE	Num	8	BEST	Total Epo dosage (units) for this claim
HCFASAF	Char	1	\$HCFASAF	HCFA SAF source of this bill
HCRIT	Num	8	BEST	Hematocrit
PER_DIEM	Num	8	BEST	Per diem pass through amount
PRM_PYR	Char	1	\$PRPAYR	Primary payer for this bill
PROVUSRD	Num	8	BEST	USRDS provider ID number
RXCAT	Char	1	\$RXCATIC	Dialysis treatment modality
SEQ_KEYC	Char	2		Sequence # to ensure unique key
USRDS_ID	Num	8	BEST	USRDS patient ID number

DET2005: Institutional Claims Detail

Contains details like diagnoses and procedures of all ESRD patients. For many analyses, the Claims Details file will not be needed.

Variable	Type	Length	Format	Comment
CDTYPE	Char	1	SCDTYPEI	
CLM_FROM	Num	8	DATE	Claim from date
CODE	Char	5		See documentation for specific details
HCFASAF	Char	1	\$HCFASAF	HCFASAF
HCPCS	Char	5		HCPCS code
REV_CH	Num	8	BEST	
REVPMT	Num	8		Rev Cntr Paymant Amout, Effective I
SEQ_KEYC	Char	2		SEQ_KEYC
UNITS	Num	8	BEST	
URR_CD	Char	8	\$URRFMT	
USRDS_ID	Num	8	BEST	USRDS_ID

PHYSICIAN/SUPPLIER CLAIMS CD***PS2005: Physician/Supplier Claims***

Contains all the physician/supplier claims of all ESRD patients. There is one type of file with one record for each claim line-item. The files include dollar amounts, dates of service, diagnosis and procedure codes, types, and places of service.

Variable	Type	Length	Format	Comment
ALOWCH	Num	8		Allowed charges
CDTYPE	Char	1	\$HCCDTYP	Line Item Type
CLM_FROM	Num	8	DATE	From date of service
CLM_THRU	Num	8	DATE	Thru date of service
DIAG	Char	5		ICD-9-cm Diagnostic code
HCFASAF	Char	1	\$HCFASAF	HCFA SAF source of this bill
HCPCS	Char	5		HCPCS code
HCSRVC	Char	1	\$HCFASVC	HCFA service code
MOD1	Char	2		HCPCS/CPT 1st Modifier
MOD2	Char	2		HCPCS/CPT 2nd Modifier
MOD3	Char	2		HCPCS/CPT 3rd Modifier
MOD4	Char	2		HCPCS/CPT 4th Modifier
PLCSRVS	Char	2	\$PLACESV	Place of Service
PMTAMT	Num	8		Claim Payment Amount
PYRCOD	Char	1	\$PRPAYR	Primary Payer code
SBMTCH	Num	8		Submitted Charges
SPCLTY	Char	2	\$PROVSP	Provider Specialty Code
SRVCCT	Num	8		Total Number Line Item Services
USRDS_ID	Num	8	BEST	USRDS patient ID number

MEDICARE 5% SAMPLE CD DISEASE-BASED COHORT**DM PATIENTS_MASTER_FILE : Patient Master File**

The patients in this file are those who had at least one DM ICD-9 diagnosis code identified in the 5% IP, OP, HH, HS, SNF and PB SAFs. There is one record per patient.

Variable	Type	Length	Format	Comment
DM_00	Char	1		In 2000 DM cohort
DM_01	Char	1		In 2001 DM cohort
DM_0001	Char	1		In 2000-2001 DM cohort
DM_02	Char	1		In 2002 DM cohort
DM_03	Char	1		In 2003 DM cohort
DM_04	Char	1		In 2004 DM cohort
DM_05	Char	1		In 2005 DM cohort
DM_92	Char	1		In 1992 DM cohort
DM_93	Char	1		In 1993 DM cohort
DM_94	Char	1		In 1994 DM cohort
DM_95	Char	1		In 1995 DM cohort
DM_96	Char	1		In 1996 DM cohort
DM_97	Char	1		In 1997 DM cohort
DM_98	Char	1		In 1998 DM cohort
DM_99	Char	1		In 1999 DM cohort
DM_0102	Char	1		In 2001-2002 DM cohort
DM_0203	Char	1		In 2002-2003 DM cohort
DM_0304	Char	1		In 2003-2004 DM cohort
DM_0405	Char	1		In 2004-2005 DM cohort
DM_9293	Char	1		In 1992-1993 DM cohort
DM_9394	Char	1		In 1993-1994 DM cohort
DM_9495	Char	1		In 1994-1995 DM cohort
DM_9596	Char	1		In 1995-1996 DM cohort
DM_9697	Char	1		In 1996-1997 DM cohort
DM_9798	Char	1		In 1997-1998 DM cohort
DM_9899	Char	1		In 1998-1999 DM cohort
DM_9900	Char	1		In 1999-2000 DM cohort
DOB	Num	8	MMDDYY	Date of Birth
DOD	Num	8	MMDDYY	Date of Death
ESRDDATE	Num	8	MMDDYY	First ESRD Service Date
FIVEP_ID	Char	9		Unique Patient Identification Number in 5% Sample Pool
RACECODE	Char	1	\$RACEFMT	Race Code
SEXCODE	Char	1	\$SEXFMT	Sex Code
STATECDE	Char	2	\$STATE	State Code
USRDS_ID	Num	8	BEST	Universal ESRD Patient Identification Number
ZIP_CHAR	Char	9	\$9	Zip Code

CHF PATIENTS_MASTER_FILE : Patient Master File

The patients in this file are those who had at least one DM ICD-9 diagnosis code identified in the 5% IP, OP, HH, HS, SNF and PB SAFs. There is one record per patient.

Variable	Type	Length	Format	Comment
CHF_00	Char	1		In 2000 CHFcohort(Y/N)
CHF_01	Char	1		In 2001 CHFcohort(Y/N)
CHF_0001	Char	1		In 2000-2001 CHFcohort(Y/N)
CHF_02	Char	1		In 2002 CHFcohort(Y/N)
CHF_03	Char	1		In 2003 CHFcohort(Y/N)
CHF_92	Char	1		In 1992 CHFcohort(Y/N)
CHF_93	Char	1		In 1993 CHFcohort(Y/N)
CHF_94	Char	1		In 1994 CHFcohort(Y/N)
CHF_95	Char	1		In 1995 CHFcohort(Y/N)
CHF_96	Char	1		In 1996 CHFcohort(Y/N)
CHF_97	Char	1		In 1997 CHFcohort(Y/N)
CHF_98	Char	1		In 1998 CHFcohort(Y/N)
CHF_99	Char	1		In 1999 CHFcohort(Y/N)
CHF_0102	Char	1		In 2001-2002 CHFcohort(Y/N)
CHF_0203	Char	1		In 2002-2003 CHFcohort(Y/N)
CHF_9293	Char	1		In 1992-1993 CHFcohort(Y/N)
CHF_9394	Char	1		In 1993-1994 CHFcohort(Y/N)
CHF_9495	Char	1		In 1994-1995 CHFcohort(Y/N)
CHF_9596	Char	1		In 1995-1996 CHFcohort(Y/N)
CHF_9697	Char	1		In 1996-1997 CHFcohort(Y/N)
CHF_9798	Char	1		In 1997-1998 CHFcohort(Y/N)
CHF_9899	Char	1		In 1998-1999 CHFcohort(Y/N)
CHF_9900	Char	1		In 1999-2000 CHFcohort(Y/N)
ESRDDATE	Num	8	MMDDYY10.	First ESRD Service Date
FIVEP_ID	Char	9	Unique	Unique Patient Identification Number in 5% Sample Pool
USRDS_ID	Num	8	BEST22.	Universal ESRD Patient Identification Number
DOB	Num	8	MMDDYY10.	Date of Birth
DOD	Num	8	MMDDYY10.	Date of Death
RACECODE	Char	1	\$RACEFMT.	Patient Race
SEXCODE	Char	1	\$SEXFMT.	Patient Sex
STATECDE	Char	2	\$STATE.	Patient State
ZIP_CHAR	Char	9	\$9	Zip Code

CKD_PATIENTS_MASTER_FILE : Patient Master File

The patients in this file are those who had at least one DM ICD-9 diagnosis code identified in the 5% IP, OP, HH, HS, SNF and PB SAFs. There is one record per patient.

Variable	Type	Length	Format	Comment
CKD_00	Char	1		In 2000 CKDcohort(Y/N)
CKD_01	Char	1		In 2001 CKDcohort(Y/N)
CKD_0001	Char	1		In 2000-2001 CKDcohort(Y/N)
CKD_02	Char	1		In 2002 CKDcohort(Y/N)
CKD_03	Char	1		In 2003 CKDcohort(Y/N)
CKD_92	Char	1		In 1992 CKDcohort(Y/N)
CKD_93	Char	1		In 1993 CKDcohort(Y/N)
CKD_94	Char	1		In 1994 CKDcohort(Y/N)
CKD_95	Char	1		In 1995 CKDcohort(Y/N)
CKD_96	Char	1		In 1996 CKDcohort(Y/N)
CKD_97	Char	1		In 1997 CKDcohort(Y/N)
CKD_98	Char	1		In 1998 CKDcohort(Y/N)
CKD_99	Char	1		In 1999 CKDcohort(Y/N)
CKD_0102	Char	1		In 2001-2002 CKDcohort(Y/N)
CKD_0203	Char	1		In 2002-2003 CKDcohort(Y/N)
CKD_9293	Char	1		In 1992-1993 CKDcohort(Y/N)
CKD_9394	Char	1		In 1993-1994 CKDcohort(Y/N)
CKD_9495	Char	1		In 1994-1995 CKDcohort(Y/N)
CKD_9596	Char	1		In 1995-1996 CKDcohort(Y/N)
CKD_9697	Char	1		In 1996-1997 CKDcohort(Y/N)
CKD_9798	Char	1		In 1997-1998 CKDcohort(Y/N)
CKD_9899	Char	1		In 1998-1999 CKDcohort(Y/N)
CKD_9900	Char	1		In 1999-2000 CKDcohort(Y/N)
ESRDDATE	Num	8	MMDDYY10.	First ESRD Service Date
FIVEP_ID	Char	9	Unique	Unique Patient Identification Number in 5% Sample Pool
USRDS_ID	Num	8	BEST22.	Universal ESRD Patient Identification Number
DOB	Num	8	MMDDYY10.	Date of Birth
DOD	Num	8	MMDDYY10.	Date of Death
RACECODE	Char	1	\$RACEFMT.	Patient Race
SEXCODE	Char	1	\$SEXFMT.	Patient Sex
STATECDE	Char	2	\$STATE.	Patient State
ZIP_CHAR	Char	9	\$9	Zip Code

DM_PAYER_SEQ_FILE: Payer Sequence File

This file was created from the 5% Medicare denominator files and the IP, OP, HH, HS, SNF and PB SAFs. The file contains Medicare coverage information for those 5% patients who had at least one ICD-9 diagnosis code identified through the 5% IP, OP, HH, HS, SNF and PB SAFs. A patient might have one or many sequence records where each record indicates a different insurance coverage within a well-defined time period.

Variable	Type	Length	Format	Comment
BEG_DATE	Num	8	MMDDYY10.	Coverage start date.
COVERAGE_TYPE	Char	2		A -- Entitled with Part A only B -- Entitled with Part B only AB -- Entitled with Part A & Part B H -- Enrolled in an HMO NM -- Not Medicare
END_DATE	Num	8	MMDDYY10.	Coverage end date.
FIVEP_ID	Char	9		Unique Patient ID in 5% Sample Pool

CHF_PAYER_SEQ_FILE: Payer Sequence File

Variable	Type	Length	Format	Comment
BEG_DATE	Num	8	MMDDYY10.	Coverage start date.
COVERAGE_TYPE	Char	2		A -- Entitled with Part A only B -- Entitled with Part B only AB -- Entitled with Part A & Part B H -- Enrolled in an HMO NM -- Not Medicare
END_DATE	Num	8	MMDDYY10.	Coverage end date.
FIVEP_ID	Char	9		Unique Patient ID in 5% Sample Pool

CKD_PAYER_SEQ_FILE: Payer Sequence File

Variable	Type	Length	Format	Comment
BEG_DATE	Num	8	MMDDYY10.	Coverage start date.
COVERAGE_TYPE	Char	2		A -- Entitled with Part A only B -- Entitled with Part B only AB -- Entitled with Part A & Part B H -- Enrolled in an HMO NM -- Not Medicare
END_DATE	Num	8	MMDDYY10.	Coverage end date.
FIVEP_ID	Char	9		Unique Patient ID in 5% Sample Pool

DM_CO_MORBID_yr: Co-Morbid Files

These co-morbid files are constructed from the 5% Medicare IP, OP, HH, HS, SNF and PB SAFs and named individually by the respective calendar years. Each file is a collection of all patients whose diabetes disease was identified from the 5% Medicare IP, OP, HH, HS, SNF and PB SAFs within that specific year (i.e. Co_Morbid_95 contains all patients with their DM co-morbid events captured from the 1995 5% Medicare Claims SAFs).

Variable	Type	Length	Format	Comment
FIVEP_ID	Char	9		Unique Patient ID in 5% Sample Pool
FROMDAT	Num	8	MMDDYY10.	From Date of Service
CODE	Char	5		DM ICD-9 Code
CODETYPE	Char	3		DM ICD-9 Code Source File(ipd: diagnosis code from IP, opd: diagnosis code from OP, hhd: diagnosis code from HH, hsd: diagnosis code from HS, pbd: diagnosis code from PB, snd: diagnosis code from SN)

CHF_CO_MORBID_yr: Co-Morbid Files

Variable	Type	Length	Format	Comment
FIVEP_ID	Char	9		Unique Patient ID in 5% Sample Pool
FROMDAT	Num	8	MMDDYY10.	From Date of Service
CODE	Char	5		DM ICD-9 Code
CODETYPE	Char	3		DM ICD-9 Code Source File(ipd: diagnosis code from IP, opd: diagnosis code from OP, hhd: diagnosis code from HH, hsd: diagnosis code from HS, pbd: diagnosis code from PB, snd: diagnosis code from SN)

CKD_CO_MORBID_yr: Co-Morbid Files

Variable	Type	Length	Format	Comment
FIVEP_ID	Char	9		Unique Patient ID in 5% Sample Pool
FROMDAT	Num	8	MMDDYY10.	From Date of Service
CODE	Char	5		DM ICD-9 Code
CODETYPE	Char	3		DM ICD-9 Code Source File(ipd: diagnosis code from IP, opd: diagnosis code from OP, hhd: diagnosis code from HH, hsd: diagnosis code from HS, pbd: diagnosis code from PB, snd: diagnosis code from SN)

MEDICARE 5% SAMPLE INSTITUTIONAL DETAIL CLAIMS CD***INC2005A: Medicare 5% Institutional Claims***

Consists of all Part A Claims of all patients from Medicare 5% claim files who had at least one DM ICD-9 diagnosis code.

Variable	Type	Length	Format	Comment
CLAIMNUM	Num	8		Unique ID linking trailer records
CLM_AMT	Num	8		Medicare payments
CLM_FROM	Num	8	MMDDYY	From date of service
CLM_THRU	Num	8	MMDDYY	Service through date
CLM_TOT	Num	8		Total charges
CVR_DCNT	Num	8		Medicare covered days-use PER_DIEM
DISCSTAT	Char	2	\$DRG_DES	Discharge status
DRG_CD	Char	3	\$DRGLAB	Diagnosis Related Group Code
FIVEP_ID	Char	9		Unique Patient ID in 5% Sample Pool
HCFASAF	Char	1	\$HCFASAF	HCFA SAF source of this bill
PER_DIEM	Num	8		Per diem pass through amount
PRM_PYR	Char	1	\$PRPAYR	Primary payer for this bill

DET2005A: Medicare 5% Institutional Claims Details

Contains details like diagnoses and procedures of all patients from Medicare 5% claim files who had at least one DM ICD-9 diagnosis code.

Variable	Type	Length	Format	Comment
CDTYPE	Char	1	\$CDTYPEI	Defines type for code
CLAIMNUM	Num	8		Unique ID to linking trailing records
CLM_FROM	Num	8	MMDDYY	From date of service
CLM_THRU	Num	8	MMDDYY	Service through date
CODE	Char	5		See documentation for specific details
FIVEP_ID	Char	9		Unique Patient ID in 5% Sample Pool
HCFASAF	Char	1	\$HCFASAF	SAF source bill
HCPCS	Char	5		HCPCs code
REV_CH	Num	8		Revenue center total charge
REVPMT	Num	8		Line item payment amount
UNITS	Num	8		

MEDICARE 5% SAMPLE PHYSICIAN/SUPPLIER DETAIL CLAIMS CD

PS2005A: Medicare 5% Physician/Supplier Claims Details

Contains all the physician/supplier claims of all patients from Medicare 5% claim files who had at least one DM ICD-9 diagnosis code. There is one type of file with one record for each claim line-item. The files include dollar amounts, dates of service, diagnosis and procedure codes, types, and places of service.

Variable	Type	Length	Format	Comment
ALLOWCH	Num	8		Allowed charges
CDTYPE	Char	1	\$HCCDTYP	Line item type
CLM_FROM	Num	8	MMDDYY	From date of service
CLM_THRU	Num	8	MMDDYY	Service through date
DIAG	Char	5		ICD-9-CM diagnosis code
FIVEP_ID	Char	9		Unique Patient ID in 5% Sample Pool
HCFASAF	Char	1	\$HCFASAF	SAF source of this bill
HCPCS	Char	5		HCPCS procedure code
HCSRVC	Char	1	\$HCFASVC	HCFA service code
MOD1	Char	2		CPT/HCPCS first modifier
MOD2	Char	2		CPT/HCPCS second modifier
MOD3	Char	2		CPT/HCPCS third modifier
MOD4	Char	2		CPT/HCPCS fourth modifier
PLCSRV	Char	2	\$PLACESV	Place of service
PMTAMT	Num	8		Claim payment amount
PYRCOD	Char	1	\$PRPAYR	Primary payer code
SBMTCH	Num	8		Submitted charges
SPCLTY	Char	2	\$PROVSP	Provider specialty code
SRVCCT	Num	8		Total number line item services

Appendix E

Data Formatting



Format Name	Format Type	Starting Value for Format	Format Value Label
ACAACT	Numeric	1	Full academic load
		2	Reduced academic load
		3	Unable to participate in academics due to disease or condition
		996	Not Applicable < 5 years old/ High School graduate
		998	Status Unknown
ACAPRG	Numeric	1	Within One Grade Level of Peers
		2	Delayed Grade Level
		3	Special Education
		996	Not Applicable < 5 years old
		998	Status Unknown
ACCESS	Numeric	1	AVG
		2	Graft
		3	Cath
		4	Other
		5	Ukn
ACCFMT	Character	'	Missing
		1	Fistula
		2	Goretex graft
		3	Bovine graft
		4	Temporary Line
		5	Permanent subclavian catheter
ACCFMT	Character	6	Other
		1	Right
		2	Left
		3	Right and Left
		4	Neither
		ACREJEPI	Numeric
2	Yes, none treated with additional anti-rejection agent		
3	No		
998	Unknown		
ADRINDT	Character	1	First Service date before 1963
		2	First Service date & DOD on same day
		3	No First Service Date
AGE5YRC	Character	##	Total
		04	0- 4
		09	5- 9
		14	10-14
		19	15-19
		24	20-24
		29	25-29
		34	30-34
		39	35-39
		44	40-44
		49	45-49
		54	50-54
		59	55-59
		64	60-64
		69	65-69
		74	70-74
		79	75-79
		84	80-84
		85	85 plus
90	All Age		

Format Name	Format Type	Starting Value for Format	Format Value Label
		91	Age Adj
		TT	All Age
AGEUNIT	Character	M	Months
		Y	Years
AGREE6A	Character	1	Strongly Agree
		2	Agree
		3	Neutral
		4	Disagree
		5	Strongly Disagree
		6	Dont Know
AIDSFMT	Character	1	Yes
		2	No
		3	Unknown
		4	Cant disclose
ALONE	Character	'	Missing
		1	Yes
		2	No
		3	Nursing home, institution
		4	Homeless
ANGINACA	Numeric	1	No
		2	Yes, and documented Coronary Artery Disease
		3	Yes, with no documented Coronary Artery Disease
		4	Yes, but Coronary Artery Disease unknown
		998	Status Unknown
ANTIHLAA	Numeric	1	Class I antibody present
		2	No Class I antibody present
		998	Unknown
ANTIHLAB	Numeric	1	Class II antibody present
		2	No Class II antibody present
		998	Unknown
ANTISEP	Character	'	Missing
		1	Dakins
		2	Amuchina
		3	Other hypochlorite
		8	Other
ANTIVIRL	Numeric	1	Acyclovir (Zovirax)
		2	Cytogam (CMV)
		4	Gamimune
		8	Gammagard
		16	Ganciclovir (Cytovene)
		32	Valgancyclovir (Valcyte)
		64	HBIG (Hepatitis B Immune Globulin)
		128	Flu Vaccine (Influenza Virus)
		256	Lamivudine (Epivir) (for treatment of Hepatitis B)
		512	"Other, Specify"
ARTILREC	Numeric	1	CELIAC WITH PANCREAS
		2	Y-GRAFT TO SPA & SMA
		3	SPA TO SMA DIRECT
		4	SPA TO SMA WITH INTERPOSITION
		5	SPA ALONE

Format Name	Format Type	Starting Value for Format	Format Value Label
		999	OTHER SPECIFY
AUTOXM	Character	I N NT P U	Indeterminate Negative Not tested Positive Unknown
BIOPCONF	Numeric	1 2 3 998	Biopsy not done Yes, rejection confirmed Yes, rejection not confirmed Unknown
BLOOD	Character	1 2 3 4 5 6 7 8 998	O A B AB A1 A2 A1B A2B Unk
BTFLUSH	Numeric	200 300 301 302 303 304 305 306 307 308 309 998 999	NO FLUSH VIASPAN (UW/BELZER) EUROCOLLINS MODIFIED COLLINS CARDIOPLEGE PULMOPLEGE SALINE RINGERS CELSIOR CUSTODIOL PERFADEX UNKNOWN OTHER SPECIFY
CAREPROV	Numeric	1 2 3 4	Tx Center Non Tx Center Specialty Physician Primary Care Physician Other Specify
CATHBY	Character	' 1 2 9	Missing Surgeon Nephrologist Unknown
CATHFMT	Character	' 01 02 03 04 05 06 07 08 09 88	Missing Tenckhoff, straight Tenckhoff, str/with permanent bend tunnel segment Tenckhoff, curled Tenckhoff, cur/with permanent bend tunnel segment Toronto Western Toronto West./with permanent bend tunnel segment Missouri, straight with permanent bend tunnel segment Missouri, curled with permanent bend tunnel segment Lifecath, Column-Disc with permanent bend tunnel segment Other
CATHREM	Character	' 1	Missing Yes

Format Name	Format Type	Starting Value for Format	Format Value Label
CATHTEC	Character	'	Missing
		1	By surgical dissection
		2	With peritoneoscopy
		3	Blind, with trocar or guidewire
		8	Other
		9	Unknown
CDTYPE	Character	B	Phys/Supp In it
		C	Claim condition
		G	DRG
		H	HCPCS
		I	ICD9 diagnosis
		J	ICD8 diagnosis
		P	ICD9 procedure
		Q	ICD8 procedure
		R	Revenue center
		S	Discharge status
V	Claim value		
CDTYPEI	Character	C	Claim condition
		I	ICD9 diagnosis
		J	ICD8 diagnosis
		P	ICD9 procedure
		Q	ICD8 procedure
		R	Revenue center
		S	Discharge status
V	Claim value		
CDTYPEP	Character	B	Phys/Supp In it
		I	ICD9 diagnosis
CELL_TY	Numeric	1	T-cell
		2	B-cell
		3	Unseparated lymphocytes
		4	Purified Class I antigen
		5	Purified Class II antigen
		6	Purified Class I and II antigen
		7	Platelets
		8	Monocytes
		9	Endothelial cells
CITIZEN	Numeric	1	U.S. Citizen
		2	Resident Alien
		3	Non-resident Alien, Specify Country
		998	Unknown (for Cadaver Donors and Donor Referrals Only)
CLOT	Character	1	Yes completely clotted
		2	No not completely clotted
CNCRSITE	Numeric	1	No
		2	Skin-Squamous, Basal Cell
		3	Skin-Melanoma
		4	CNS Tumor-Astrocytoma
		5	CNS Tumor-Glioblastoma Multiforme
		6	CNS Tumor-Medulloblastoma
		7	CNS Tumor-Neuroblastoma
		8	CNS Tumor-Angioblastoma
		9	CNS Tumor-Meningioma
		10	CNS Tumor-Intracranial Surgery

Format Name	Format Type	Starting Value for Format	Format Value Label
		11	CNS Tumor-Intracranial No Surgery
		12	CNS Tumor-Other
		13	Genitourinary-Bladder
		14	Genitourinary-Uterine Cervix
		15	Genitourinary-Uterine Body Endometrial
		16	Genitourinary-Uterine Body Choriocarcinoma
		17	Genitourinary-Vulva
		18	Genitourinary-Ovarian
		19	Genitourinary-Penis, Testicular
		20	Genitourinary-Prostate
		21	Genitourinary-Kidney
		22	Genitourinary-Unknown
		23	Genitourinary-Esophageal
		24	Genitourinary-Stomach
		25	Genitourinary-Small Intestine
		26	Genitourinary-Colo-Rectal
		27	Genitourinary-Liver&Biliary Tract
		28	Genitourinary-Pancreas
		29	Breast
		31	Thyroid
		32	Tongue/Throat
		33	Larynx
		34	Lung(include broncial)
		35	Leukemia/Lymphoma
		998	Unknown
		999	Other Specify
CODFMT	Character	3200	GRAFT FAILURE: PRIMARY FAILURE
		3201	GRAFT FAILURE: REJECTION
		3202	GRAFT FAILURE: TECHNICAL
		3203	GRAFT FAILURE: GRAFT INFECTION
		3204	GRAFT FAILURE: RECURRENT DISEASE
		3299	GRAFT FAILURE: OTHER SPECIFY
		3300	INFECTION: BACTERIAL PERITONITIS
		3301	INFECTION: BACTERIAL PNEUMONIA
		3302	INFECTION: BACTERIAL SEPTICEMIA
		3303	INFECTION: FUNGAL
		3304	INFECTION: MIXED OTHER SPECIFY
		3305	INFECTION: OPPORTUNISTIC OTHER SPECIFY
		3306	INFECTION: URINARY TRACT
		3307	INFECTION: VIRAL
		3308	INFECTION: AIDS
		3399	INFECTION: OTHER SPECIFY
		3400	CARDIOVASCULAR: MYOCARDIAL INFARCTION
		3401	CARDIOVASCULAR: ARTERIAL EMBOLISM
		3402	CARDIOVASCULAR - PULMONARY EMBOLISM
		3499	CARDIOVASCULAR: OTHER SPECIFY
		3500	CEREBROVASCULAR: STROKE
		3599	CEREBROVASCULAR: OTHER SPECIFY
		3600	HEMORRHAGE: GASTROINTESTINAL
		3601	HEMORRHAGE: INTRAOPERATIVE
		3699	HEMORRHAGE: OTHER SPECIFY
		3700	MALIGNANCY: METASTATIC OTHER SPECIFY
		3701	MALIGNANCY: PRIMARY OTHER SPECIFY
		3702	MALIGNANCY: POST-TX LYMPHOPROLIFERATIVE
		3799	MALIGNANCY: OTHER SPECIFY
		3800	TRAUMA: MOTOR VEHICLE
		3899	TRAUMA: OTHER SPECIFY
		3900	MISCELLANEOUS: DIABETES MELLITUS
		3901	MISC: INTRAOPER (NON-HEMORRHAGE OTHER SPECIFY)

Format Name	Format Type	Starting Value for Format	Format Value Label
		3902	MISCELLANEOUS: PANCREATITIS
		3903	MISCELLANEOUS: RENAL FAILURE
		3904	MISCELLANEOUS: RESPIRATORY FAILURE
		3905	MISCELLANEOUS: SUICIDE
		3906	NON-COMPLIANCE
		3907	MISC - LIVER FAILURE
		3908	MISC - MULTIPLE SYSTEM ORGAN FAILURE (MSOF)
		3909	MISC - FLUID/ELECTROLYTE DISORDER
		3910	MISC - ACID/BASE DISORDER
		3911	MISC - IMMUNO DRUG RELATED - HEMATOLOGIC
		3912	MISC - IMMUNO DRUG RELATED - NON-HEMATOLOGIC
		3913	MISC - NON-IMMUNO DRUG RELATED - HEMATOLOGIC
		3914	MISC - NON-IMMUNO, NON-HEMATOLOGIC, SPECIFY DRUG
		998	UNKNOWN
		999	OTHER SPECIFY
CODKP	Character	7200	INFECTION: BACTERIAL PERITONITIS
		7201	INFECTION: BACTERIAL PNEUMONIA
		7202	INFECTION: BACTERIAL SEPTICEMIA
		7203	INFECTION: FUNGAL PERITONITIS
		7204	INFECTION: FUNGAL PNEUMONIA
		7205	INFECTION: FUNGAL SEPTICEMIA
		7206	INFECTION: MIXED OTHER SPECIFY
		7207	INFECTION: OPPORTUNISTIC OTHER SPECIFY
		7208	INFECTION: URINARY TRACT
		7209	INFECTION: VIRAL CMV
		7210	INFECTION: VIRAL NON-CMV
		7211	INFECTION: AIDS
		7212	INFECTION: OTHER SPECIFY
		7213	CARDIOVASCULAR: MYOCARDIAL INFARCTION
		7214	CARDIOVASCULAR: ARTERIAL EMBOLISM
		7215	CARDIOVASCULAR: VASCULAR EMBOLISM
		7216	CARDIOVASCULAR: OTHER SPECIFY
		7217	CEREBROVASCULAR: STROKE
		7218	CEREBROVASCULAR: OTHER SPECIFY
		7219	HEMORRHAGE: GASTROINTESTINAL
		7220	HEMORRHAGE: INTRAOPERATIVE
		7221	HEMORRHAGE: OTHER SPECIFY
		7222	MALIGNANCY: METASTATIC OTHER SPECIFY
		7223	MALIGNANCY: PRIMARY OTHER SPECIFY
		7224	MALIGNANCY: POST-TX LYMPHOPROLIFERATIVE
		7225	MALIGNANCY: OTHER SPECIFY
		7226	TRAUMA: MOTOR VEHICLE
		7227	TRAUMA: OTHER SPECIFY
		7228	MISCELLANEOUS: DIABETES MELLITUS
		7229	MISC: INTRAOPER (NON-HEMORRHAGE OTHER SPECIFY)
		7230	MISC: PANCREATITIS (GRAFT)
		7231	MISC: PANCREATITIS (NATIVE)
		7232	MISC: LIVER FAILURE
		7233	MISC: ARDS
		7234	MISCELLANEOUS: INTRAOPERATIVE OTHER SPECIFY
		7235	MISCELLANEOUS: RENAL FAILURE
		7236	MISCELLANEOUS: RESPIRATORY FAILURE
		7237	MISCELLANEOUS: SUICIDE
		7238	MISC: MULTI-SYSTEM FAILURE
		7239	NON-COMPLIANCE
		7240	CARDIOVASCULAR - PULMONARY EMBOLISM
		7241	MISC - FLUID/ELECTROLYTE DISORDER
		7242	MISC - ACID/BASE DISORDER
		7243	MISC - IMMUNO DRUG RELATED - HEMATOLOGIC

Format Name	Format Type	Starting Value for Format	Format Value Label
		7244	MISC - IMMUNO DRUG RELATED - NON-HEMATOLOGIC
		7245	MISC - NON-IMMUNO DRUG RELATED - HEMATOLOGIC
		7246	MISC - NON-IMMUNO - NON-HEMATOLOGIC, SPECIFY DRUG
		998	UNKNOWN
		999	OTHER SPECIFY
	Numeric	998	UNKNOWN
		999	OTHER SPECIFY
		7200	INFECTION: BACTERIAL PERITONITIS
		7201	INFECTION: BACTERIAL PNEUMONIA
		7202	INFECTION: BACTERIAL SEPTICEMIA
		7203	INFECTION: FUNGAL PERITONITIS
		7204	INFECTION: FUNGAL PNEUMONIA
		7205	INFECTION: FUNGAL SEPTICEMIA
		7206	INFECTION: MIXED OTHER SPECIFY
		7207	INFECTION: OPPORTUNISTIC OTHER SPECIFY
		7208	INFECTION: URINARY TRACT
		7209	INFECTION: VIRAL CMV
		7210	INFECTION: VIRAL NON-CMV
		7211	INFECTION: AIDS
		7212	INFECTION: OTHER SPECIFY
		7213	CARDIOVASCULAR: MYOCARDIAL INFARCTION
		7214	CARDIOVASCULAR: ARTERIAL EMBOLISM
		7215	CARDIOVASCULAR: VASCULAR EMBOLISM
		7216	CARDIOVASCULAR: OTHER SPECIFY
		7217	CEREBROVASCULAR: STROKE
		7218	CEREBROVASCULAR: OTHER SPECIFY
		7219	HEMORRHAGE: GASTROINTESTINAL
		7220	HEMORRHAGE: INTRAOPERATIVE
		7221	HEMORRHAGE: OTHER SPECIFY
		7222	MALIGNANCY: METASTATIC OTHER SPECIFY
		7223	MALIGNANCY: PRIMARY OTHER SPECIFY
		7224	MALIGNANCY: POST-TX LYMPHOPROLIFERATIVE
		7225	MALIGNANCY: OTHER SPECIFY
		7226	TRAUMA: MOTOR VEHICLE
		7227	TRAUMA: OTHER SPECIFY
		7228	MISCELLANEOUS: DIABETES MELLITUS
		7229	MISC: INTRAOPER (NON-HEMORRHAGE OTHER SPECIFY)
		7230	MISC: PANCREATITIS (GRAFT)
		7231	MISC: PANCREATITIS (NATIVE)
		7232	MISC: LIVER FAILURE
		7233	MISC: ARDS
		7234	MISCELLANEOUS: INTRAOPERATIVE OTHER SPECIFY
		7235	MISCELLANEOUS: RENAL FAILURE
		7236	MISCELLANEOUS: RESPIRATORY FAILURE
		7237	MISCELLANEOUS: SUICIDE
		7238	MISC: MULTI-SYSTEM FAILURE
		7239	NON-COMPLIANCE
		7240	CARDIOVASCULAR - PULMONARY EMBOLISM
		7241	MISC - FLUID/ELECTROLYTE DISORDER
		7242	MISC - ACID/BASE DISORDER
		7243	MISC - IMMUNO DRUG RELATED - HEMATOLOGIC
		7244	MISC - IMMUNO DRUG RELATED - NON-HEMATOLOGIC
		7245	MISC - NON-IMMUNO DRUG RELATED - HEMATOLOGIC
		7246	MISC - NON-IMMUNO - NON-HEMATOLOGIC, SPECIFY DRUG
COMPFMT	Character	1	Much better now than one year ago
		2	Somewhat better now than one year ago
		3	About the same
		4	Somewhat worse now than a year ago
		5	Much worse now than one year ago

Format Name	Format Type	Starting Value for Format	Format Value Label		
CONNREQ	Numeric	10	DONOR AGE		
		11	NON-HEART BEATING DONOR		
		12	HISTORY OF PREVIOUS CARDIAC SURGERY (valid only for HR)		
		13	HISTORY OF SEVERE CARDIAC DISEASE (valid only for HR)		
		14	HISTORY OF LUNG DISEASE (valid only for LU)		
		15	HISTORY OF GASTRO-INTESTINAL DISEASE (valid only for IN)		
		16	HISTORY OF DIABETES MELLITUS (valid only for PA)		
		17	PANCREATITIS (valid only for PA)		
		18	ACUTE/CHRONIC RENAL FAILURE		
		21	Donor Quality		
		22	Donor ABO		
		99	OTHER SPECIFY		
		CTRY	Character	ADR	Andorra
				AFG	Afghanistan
AGB	Antigua and Barbuda				
AIL	Anguilla				
ALB	Albania				
ALR	Algeria				
AMN	Armenia				
AOL	Angola				
ARG	Argentina				
ARU	Aruba				
ASM	American Samoa				
ATR	Austria				
AUS	Australia				
AZB	Azerbaijan				
AZO	Azores				
BBD	Barbados				
BDS	Brunei Darussalam				
BEL	Belgium				
BEN	Benin				
BER	Bermuda				
BGD	Bangladesh				
BHG	Bosnia-Herzegovina				
BHR	Bahrain				
BHS	Bahamas				
BHT	Bhutan				
BIT	British Indian Ocean Territory				
BLG	Bulgaria				
BOL	Bolivia				
BRA	Brazil				
BUD	Burundi				
BUK	Burkina				
BUR	Burma(Myanmar)				
BVI	British Virgin Islands				
BWA	Botswana				
BYL	Byelarus				
BZE	Belize				
CAI	Canary Islands				
CAM	Cambodia				
CAN	Canada				
CAR	Central African Republic				
CCI	Cocos(keeling) Island				
CEI	Canton and Enderbury Islands				
CGO	Congo				
CHD	Chad				
CHI	China				
CHL	Chile				

Format Name	Format Type	Starting Value for Format	Format Value Label
		CKI	Cook Islands
		CMR	Cameroon
		CMS	Comoros
		COL	Colombia
		CRO	Croatia
		CSR	Costa rica
		CUB	Cuba
		CVD	Cape verde
		CXI	Christmas Islands
		CYI	Cayman Island
		CYP	Cyprus
		CZR	Czech Republic: The
		DJI	Djibouti
		DMK	Demark
		DMN	Dominica
		DOR	Dominican Republic
		ECU	Ecuador
		EET	Estonia
		EGQ	Equatorial Guinea
		EGY	Egypt
		ENG	England
		ESV	El Salvador
		ETH	Ethiopia
		FGF	French Guiana
		FIN	Finland
		FJI	Fiji
		FKI	Falkland Islands(Malvinas)
		FOI	Faroe Islands
		FPF	French Polynesia
		FRA	France
		FSA	French Southern and Antarctic
		GAB	Gabon
		GDA	Grenada
		GDP	Guadeloupe
		GEO	Georgia
		GER	Germany:Federal Republic of
		GHA	Ghana
		GIB	Gibraltar
		GLD	Greenland
		GMB	Gambia:The
		GRC	Greece
		GTL	Guatemala
		GUB	Guinea-Bissau
		GUM	Guam
		GUN	Guinea
		GYA	Guyana
		GZS	Gaza Strip
		HKG	Hong Kong
		HMI	Heard Island and Mcdonald Islands
		HON	Honuras
		HTI	Haiti
		HUG	Hungary
		ICI	Ivory Coast
		ICL	Iceland
		IDN	Indonesia
		IND	India
		IRE	Ireland
		IRN	Iran
		IRQ	Iraq
		ISR	Israel

Format Name	Format Type	Starting Value for Format	Format Value Label
		ITL	Italy
		JMC	Jamaica
		JOR	Jordan
		JPN	Japan
		JSA	Johnston Atoll
		KEY	Kenya
		KGS	Kyrgyzstan
		KIR	Kiribati
		KOR	Korea
		KPH	Kampuchea:Democratic
		KUW	Kuwait
		KZK	Kazakhstan
		LAD	Lao Peoples'Democratic Republic
		LAT	Latin America
		LBY	Libya
		LCT	Liechtenstein
		LEB	Lebanon
		LIB	Libaria
		LST	Lesotho
		LTN	Lithuania
		LTV	Latvia
		LUX	Luxembourg
		MAC	Macau
		MCD	Macedonia(Skopje)
		MDG	Madagascar
		MDI	Madeira Island
		MDV	Moldova
		MEX	Mexico
		MFM	Micronesia:Federated States of
		MHI	Marshall Islands
		MLD	Maldives
		MLI	Mali
		MNC	Monaco
		MNG	Mongolia
		MOR	Morocco
		MRT	Mauritania
		MST	Montserat
		MTA	Malta
		MTQ	Martinique
		MUR	Mauritius
		MWI	Malawi
		MWS	Midway Islands
		MYS	Malaysia
		MZB	Mozambique
		NAM	Mamibia
		NAN	Netherlands Antilles
		NCD	New Caledonia
		NET	Netherlands
		NFI	Norfolk Island
		NGA	Nigeria
		NIC	Nicaragua
		NIG	Niger
		NKR	North Korea
		NOR	Norway
		NPI	Northern Mariana Islands
		NPL	Nepal
		NRU	Nauru
		NUE	Niue
		NZD	New Zealand
		OMN	Oman

Format Name	Format Type	Starting Value for Format	Format Value Label
		PAL	Palau
		PAN	Panama
		PER	Peru
		PHI	Pitcairn Island
		PHL	Phillipines
		PKT	Pakistan
		PLD	Poland
		PNG	Papua New Guinea
		PRO	Puerto Rico
		PRY	Paraguay
		PTL	Portugal
		QAT	Qatar
		REN	Reunion
		ROM	Romania
		RUS	Russia
		RWD	Rwanda
		SAF	South Africa
		SAM	Samoa
		SAU	Saudi Arabia
		SCL	Seychelles
		SDN	Sudan
		SED	Sweden
		SGP	Singapore
		SJM	Svalbard and Jan Mayen Islands
		SKA	Slovakia
		SKR	South Korea
		SLI	Solomon Islands
		SLK	Srilanka
		SLV	Slovenia
		SMO	San Marino
		SNG	Senegal
		SOM	Somalia
		SPA	Spain
		SPM	St.Pierre and Miquelon
		SRL	Sierra Leone
		SRN	Suriname
		STA	Spanish Africa
		STC	St.Christopher
		STH	St.Helena
		STK	St.Kitts and Mevis
		STL	Saint Lucia
		STP	Sao Tome and Principe
		SVC	Saint Vincent and The Grenadines
		SWT	Switzerland
		SYA	Syrian Arab Republic
		SZL	Swaziland
		TCI	Turks and Caicos Island
		TDT	Trinidad and Tobago
		TGO	Togo
		THL	Thailand
		TJK	Tajikistan
		TKL	Tokelau
		TMS	Turkmenistan
		TNS	Tunisia
		TOG	Tonga
		TRK	Turkey
		TVL	Tuvalu
		TWN	Taiwan
		TZN	Tanzania:United Republic of
		UAE	United Arab Emirates

Format Name	Format Type	Starting Value for Format	Format Value Label
		UGD	Uganda
		UKA	Ukraine
		UKD	United Kingdom
		UMI	USA Minor Outlying Islands
		UNK	Unknown
		URG	Uruguay
		USA	United States
		UZB	Uzbekistan
		VAC	Vatican City
		VEN	Venezuela
		VGI	Virgin Islands of the USA
		VTN	Viet Nam
		VUT	Vanuata
		YEM	Yemen:Republic of
		YUG	Yugoslavia
		ZAM	Zambia
		ZAR	Zaire
		ZIM	Zimbabwe
CUFFFMT	Character	'	Missing
		1	One deep
		2	One superficial
		3	Two cuffs (deep and superficial)
		9	Unknown
CUFFPLC	Character	'	Missing
		1	Midline
		2	Lateral
		3	Paramedian (in rectus muscle or fascia)
		9	Unknown
CWHLA	Numeric	0	0
		1	1
		2	2
		3	3
		4	4
		5	5
		6	6
		7	7
		8	8
		9	9
		10	10
		11	11
		12	12
		13	13
		14	14
		15	15
		16	16
		17	17
		18	18
		97	Unknown
		98	No second antigen detected
		99	Not Tested
		100	No antigen detected
CYCLER	Character	1	four times or more
		2	three times
		3	twice
		4	once
		5	not at all

Format Name	Format Type	Starting Value for Format	Format Value Label
		6	I am not on a cyclcr
C_GRF_FU	Numeric	2	Acute rejection
		3	Primary Failure
		4	Graft Thrombosis
		5	Infection
		7	Urological Complications
		8	Recurrent Disease
		10	Chronic Rejection
		999	Other Specify
DCANC	Character	1	Intracranial
		2	Extracranial
		3	None
DCRFMT	Character	'	Missing
		1	Gram pos
		2	Gram neg, single
		3	Gram neg, multiple
		4	Gram pos and neg
		5	Fungal
		6	Fungal and bacterial
		7	No growth
		8	Other
		9	Unknown
DEATHFM	Character	01	Pericarditis (incl. Cardiac Tamponade)
		02	Myocardial Infarction, Acute
		03	Cardiac (Other Than 01 Or 02)
		04	Cerebrovascular
		05	Embolism, Air
		06	Embolism, Pulmonary
		07	Gi Hemorrhage
		08	Vascular Access
		09	Hemorrhage (Other Than 04, 07, Or 08)
		10	Pulmonary Infection
		11	Septicemia
		12	Viral Hepatitis
		13	Infection (Other Than 10, 11, Or 12)
		14	Hyperkalemia
		15	Pancreatitis
		16	Malignancy
		17	Withdrawl From Dialysis
		18	Suicide
		19	Accidental, Treatment Related (Not 05)
		20	Accidental, Not Treatment Related
		21	Unknown Cause
		22	Other (Specify In Remarks)
		23	Myocardial Infarction, Acute
		24	Hyperkalemia
		25	Pericarditis, Incl. Cardiac Tamponade
		26	Atherosclerotic Heart Disease
		27	Cardiomyopathy
		28	Cardiac Arrhythmia
		29	Cardiac Arrest, Cause Unknown
		30	Valvular Heart Disease
		31	Pulmonary Edema Due To Exogenous Fluid
		35	Pulmonary Embolus
		36	Cerebro-Vascular Accident Including Intracranial Hemorrhage
		37	Ischemic Brain Damage/Anoxic Enecephalopathy

Format Name	Format Type	Starting Value for Format	Format Value Label
		38	Hemorrhage From Transplant Site
		39	Hemorrhage From Vascular Access
		40	Hemorrhage From Dialysis Circuit
		41	Hemorrhage From Ruptured Vascular Aneurysm
		42	Hemorrhage From Surgery (Not 38,39 Or 40)
		43	Other Hemorrhage (Not Codes 38-42,72)
		44	Mesenteric Infarction/Ischemic Bowel
		49	Septicemia, Due To Vascular Access
		50	Septicemia, Due To Peritonitis
		51	Septicemia, Due To Peripheral Vascular Disease, Gangrene
		52	Septicemia, Other
		53	Pulmonary Infection (Bacterial)
		54	Pulmonary Infection (Fungal)
		55	Pulmonary Infection (Other)
		56	Viral Infection, Cmv
		57	Viral Infection, Other (Not 64 Or 65)
		58	Tuberculosis
		59	Aids
		60	Infection, Other
		64	Hepatitis B
		65	Other Viral Hepatitis
		66	Liver-Drug Toxicity
		67	Cirrhosis
		68	Polycystic Liver Disease
		69	Liver Failure, Cause Unknown Other
		72	Gastro-Intestinal Hemorrhage
		73	Pancreatitis
		74	Fungal Peritonitis
		75	Perforation Of Peptic Ulcer
		76	Perforation Of Bowel (Not 75)
		80	Bone Marrow Depression
		81	Cachexia
		82	Malignant Disease, Patient Ever On Immunosuppressive Therapy
		83	Malignant Disease (Not 82)
		84	Dementia, Incl. Dialysis Dementia, Alzheimers
		85	Seizures
		86	Diabetic Coma, Hyperglycemia, Hypoglycemia
		87	Chronic Obstructive Lung Disease (Copd)
		88	Complications Of Surgery
		89	Air Embolism
		90	Accident Related To Treatment
		91	Accident Unrelated To Treatment
		92	Suicide
		93	Drug Overdose (Street Drugs)
		94	Drug Overdose (Not 92 Or 93)
		98	Other Identified Cause Of Death, Please Specify
		99	Unknown
DESCFMT	Character	1	RENAL RECOVERY
		2	DIED
		3	CURRENT (12/90)
		4	LOST TO FOLLOWUP
DIABFMT	Character	'	Missing
		1	IDDM (Juv. Type I)
		2	NIDDM (Adult Type II)
DIABTRET	Numeric	1	Insulin
		2	Oral Hypoglycemic Agent
		4	Diet

Format Name	Format Type	Starting Value for Format	Format Value Label
DIAG	Character	042	AIDS nephropathy
		1890	Renal tumor (malignant)
		1899	Urinary tract tumor (malignant)
		20280	Lymphoma of kidneys
		20300	Multiple myeloma
		20308	Other immuno proliferative neoplasms (including light chain nephropathy)
		2230	Renal tumor (benign)
		2239	Urinary tract tumor (benign)
		23951	Renal tumor (unspecified)
		23952	Urinary tract tumor (unspecified)
		25040	Diabetes with renal manifestations Type 2
		25041	Diabetes with renal manifestations Type 1
		2700	Cystinosis
		2718	Primary oxalosis
		2727	Fabrys disease
		27410	Gouty nephropathy
		27549	Other disorders of calcium metabolism
		2773	Amyloidosis
		28260	Sickle cell disease/anemia
		28269	Sickle cell trait and other sickle cell (HbS/Hb other)
		28311	Hemolytic uremic syndrome
		2870	Henoch-Schonlein syndrome
		40391	Unspecified with renal failure
		4401	Renal artery stenosis
		4460	Polyarteritis
		44620	Other Vasculitis and its derivatives
		44621	Goodpastures syndrome
		4464	Wegeners granulomatosis
		5724	Hepatorenal syndrome
		5800	Post infectious GN, SBE
		58089	Acute interstitial nephritis
		5820	Other proliferative GN
		5821	Focal glomerulosclerosis, focal sclerosing GN
		5829	Glomerulonephritis (GN) (histologically not examined)
		5830	Radiation nephritis
		5831	Membranous nephropathy
		58321	Membranoproliferative GN type 1, diffuse MPGN
		58322	Dense deposit disease, MPGN type 2
		5834	With lesion of rapidly progressive GN
		5836	Tubular necrosis (no recovery)
		58381	IgA nephropathy, Bergers disease (proven by immunofluorescence)
		58382	IgM nephropathy (proven by immunofluorescence)
		58389	Chronic interstitial nephritis
		5839	Drash syndrome, mesangial sclerosis
		58391	Secondary GN, other
		58392	Nephropathy due to heroin abuse and related drugs
		5900	Chronic pyelonephritis, reflux nephropathy
		5909	Nephropathy caused by other agents
		5920	Nephrolithiasis
		5929	Urolithiasis
		59381	Renal artery occlusion
		59383	Cholesterol emboli, renal emboli
		59389	Other renal disorders
		5996	Acquired obstructive uropathy
		64620	Post partum renal failure
		7100	Lupus erythematosus, (SLE nephritis)
		7101	Scleroderma
		7530	Renal hypoplasia, dysplasia, oligonephronia
		75313	Polycystic kidneys, adult type (dominant)

Format Name	Format Type	Starting Value for Format	Format Value Label
		75314	Polycystic, infantile (recessive)
		75316	Medullary cystic disease, including nephronophthisis
		75321	Congenital obstruction of ureterpelvic junction
		75322	Congenital obstruction of uretrovesical junction
		75329	Other Congenital obstructive uropathy
		7533	Congenital nephrotic syndrome
		75671	Prune belly syndrome
		7595	Tuberous sclerosis
		7598	Hereditary nephritis, Alports syndrome
		75989	Other (congenital malformation syndromes)
		7999	Etiology uncertain
		8660	Traumatic or surgical loss of kidney(s)
		9659	Analgesic abuse
		9849	Lead nephropathy
		99680	Complications of transplanted organ unspecified
		99681	Complications of transplanted kidney
		99682	Complications of transplanted liver
		99683	Complications of transplanted heart
		99684	Complications of transplanted lung
		99685	Complications of transplanted bone marrow
		99686	Complications of transplanted pancreas
		99687	Complications of transplanted intestine
		99689	Complications of other specified transplanted organ
		OTHER	Missing
DIAGFMT	Character	1	DIABETES
		2	HYPERTENSION
		3	GLOMERULONEPH
		4	CYSTIC KIDNEY
		5	OTHER UROLOGIC
		6	OTHER CAUSE
DIAINSDP	Numeric	1	No
		2	Insulin Dependent Diabetes
		3	Non-insulin Dependent Diabetes
		4	Diabetes, Dependency Unknown
		998	Unknown
DIALCRC	Character	1	FULL CARE UNIT
		2	SELF CARE UNIT
		3	SELF CARE TRAINING
		4	HOME
		5	HOME 100 PERCENT
		6	BACK-UP FACILITY
DIALRVC	Character	00	INPATIENT
		01	INP HEMO
		02	INP PERI NONCAPD
		03	INP CAPD
		04	INP CCPD
		09	INP OTHER
		10	Organ Acquis.
		20	HEMO OP/H GENERAL
		21	HEMO OP/H RATE
		22	HEMO HOME SUPPLIES
		23	HEMO HOME EQUIPMENT
		24	HEMO OP/H MAINTENANCE
		25	HEMO OP/H SUPPORT
		29	HEMO OP/H OTHER
		30	PERI OP/H GENERAL

Format Name	Format Type	Starting Value for Format	Format Value Label
		31	PERI OP/H RATE
		32	PERI OP/H HOME SUPPLIES
		33	PERI OP/H HOME EQUIP
		34	PERI OP/H MAINT
		35	PERI OP/H SUPPORT
		39	PERI OP/H OTHER
		40	CAPD OP/H GENERAL
		41	CAPD OP/H RATE
		42	CAPD OP/H HOME SUPPLIES
		43	CAPD OP/H HOME EQUIP
		44	CAPD OP/H MAINT
		45	CAPD OP/H SUPPORT
		49	CAPD OP/H OTHER
		50	CCPD OP/H GENERAL
		51	CCPD OP/H RATE
		52	CCPD OP/H HOME SUPPLIES
		53	CCPD OP/H HOME EQUIP
		54	CCPD OP/H MAINT
		55	CCPD OP/H SUPPORT
		59	CCPD OP/H OTHER
		80	MISC DIAL GENERAL
		81	DIALYSIS ULTRAFILTRATION
		82	DIALYSIS HOME AIDE
		89	MISC DIAL OTHER
		90	Organ Bank
DIAL_TY	Numeric	1	No dialysis
		2	Hemodialysis
		3	Peritoneal Dialysis
		998	Dialysis Status Unknown
		999	Dialysis-Unknown Type was performed
DIA_MNT	Numeric	1	No
		2	Yes, Resumed Maintenance Dialysis
		3	Yes, No Maintenance Resumption
		4	Yes, Maintenance Resumption Unknown
		998	Unknown
DINFEC	Character	A	Yes
		B	No
		C	Unknown
DISATE	Character	1	bicarbonate
		2	acetate
DISCD_CD	Numeric	601	Too Old on Pump
		602	Too Old on Ice
		603	Vascular Damage
		604	Ureteral Damage
		605	Inadequate Urine Output
		606	Donor Medical History
		607	Donor Social History
		608	Positive CMV
		609	Positive HIV
		610	Positive Hepatitis
		611	Warm Ischemic Time too Long
		612	Organ Trauma
		613	Organ not as Described
		614	Biopsy Findings
		615	Recipient Determined to be Unsuitable for Tx in OR

Format Name	Format Type	Starting Value for Format	Format Value Label
		616	Poor Organ Function
		617	Infection
		618	Diseased Organ
		619	Anatomical Abnormalities
		620	No Recipient Located-List Exhausted
		699	Other, specify
DISGRPC	Character	1	Diabetes
		2	Hypertension
		3	Glomeruloneph.
		4	Cystic Kidney
		5	Other Urologic
		6	Other Cause
		7	Unknown Cause
		8	Missing Cause
		OTHER	Missing Cause
DISPOS	Numeric	1	Consent Not Requested
		2	Consent Not Obtained
		3	Organ Not Recovered
		4	Recovered Not for Tx
		5	Recovered for TX but Not Tx
		6	Transplanted
		7	N/A
DISREC	Numeric	1	No recurrence
		2	Suspected recurrence (not confirmed or unknown is confirmed by biopsy)
		3	Biopsy confirmed recurrence
		998	Unknown
DIST	Character	1	15 minutes or less
		2	16 minutes to half an hour
		3	31 minutes to one hour
		4	More than one hour
DNRTYP	Character	'	Missing
		1	Cadaver
		2	Living Related
		3	Living Unrelated
DONOR	Character	Missing	
		C	Cadaveric
		F	Foreign Donor (import)
		L	Living
		U	Unknown
		OTHER	Unknown
DONORTYP	Numeric	1	Living Related
		2	Living Unrelated
		3	Deceased
DON_COD	Numeric	1	Anoxia
		2	Cerebrovascular/Stroke
		3	Head Trauma
		4	CNS Tumor
		999	Other Specify
DON_P	Character	C	Cadaveric
		F	Foreign Import
		L	Living Related

Format Name	Format Type	Starting Value for Format	Format Value Label
		U	Unspecified
DON_REL	Numeric	1	Biological, blood related Parent
		2	Biological, blood related Child
		3	Biological, blood related Identical Twin
		4	Biological, blood related Full Sibling
		5	Biological, blood related Half Sibling
		6	Biological, blood related Other Relative: SPECIFY
		7	Non-Biological, Spouse
		8	Non-Biological, Life Partner
		9	Non-Biological, Unrelated: Paired Exchange
		10	Non-Biological, Unrelated: Non-Directed Donation (Anonymous)
		11	Non-Biological, Living/Deceased Exchange
		12	Non-Biological, Unrelated: Domino
		999	Non-Biological, Other Unrelated Directed Donation: Specify
		OTHER	Unknown
DPHLA	Character	0	0
		1	1
		2	2
		3	3
		4	4
		5	5
		6	6
		97	Unknown
		98	No second antigen detected
		99	Not Tested
	Numeric	1	1
		2	2
		3	3
		4	4
		5	5
		6	6
		97	Unknown
		98	Confirmed Blk
		99	Not Tested
DQHLA	Character	0	0
		1	1
		2	2
		3	3
		4	4
		5	5
		6	6
		7	7
		8	8
		9	9
		97	Unknown
		98	No second antigen detected
		99	Not Tested
	Numeric	1	1
		2	2
		3	3
		4	4
		5	5
		6	6
		7	7
		8	8
		9	9
		97	Unknown

Format Name	Format Type	Starting Value for Format	Format Value Label
		98	Confirmed Blk
		99	Not Tested
DRGLAB	Character	0	0 Unknown
		000	000 Unknown
		001	001 CRANIOTOMY AGE >17 EXCEPT FOR TRAUMA
		002	002 CRANIOTOMY FOR TRAUMA AGE >17
		003	003 CRANIOTOMY AGE 0-17
		004	004 SPINAL PROCEDURES
		005	005 EXTRACRANIAL VASCULAR PROCEDURES
		006	006 CARPAL TUNNEL RELEASE
		007	007 PERIPH & CRANIAL NERVE & OTHER NERV SYST PROC W CC
		008	008 PERIPH & CRANIAL NERVE & OTHER NERV SYST PROC W/O CC
		009	009 SPINAL DISORDERS & INJURIES
		010	010 NERVOUS SYSTEM NEOPLASMS W CC
		011	011 NERVOUS SYSTEM NEOPLASMS W/O CC
		012	012 DEGENERATIVE NERVOUS SYSTEM DISORDERS
		013	013 MULTIPLE SCLEROSIS & CEREBELLAR ATAXIA
		014	014 SPECIFIC CEREBROVASCULAR DISORDERS EXCEPT TIA
		015	015 TRANSIENT ISCHEMIC ATTACK & PRECEREBRAL OCCLUSIONS
		016	016 NONSPECIFIC CEREBROVASCULAR DISORDERS W CC
		017	017 NONSPECIFIC CEREBROVASCULAR DISORDERS W/O CC
		018	018 CRANIAL & PERIPHERAL NERVE DISORDERS W CC
		019	019 CRANIAL & PERIPHERAL NERVE DISORDERS W/O CC
		020	020 NERVOUS SYSTEM INFECTION EXCEPT VIRAL MENINGITIS
		021	021 VIRAL MENINGITIS
		022	022 HYPERTENSIVE ENCEPHALOPATHY
		023	023 NONTRAUMATIC STUPOR & COMA
		024	024 SEIZURE & HEADACHE AGE >17 W CC
		025	025 SEIZURE & HEADACHE AGE >17 W/O CC
		026	026 SEIZURE & HEADACHE AGE 0-17
		027	027 TRAUMATIC STUPOR & COMA, COMA >1 HR
		028	028 TRAUMATIC STUPOR & COMA, COMA <1 HR AGE >17 W CC
		029	029 TRAUMATIC STUPOR & COMA, COMA <1 HR AGE >17 W/O CC
		030	030 TRAUMATIC STUPOR & COMA, COMA <1 HR AGE 0-17
		031	031 CONCUSSION AGE >17 W CC
		032	032 CONCUSSION AGE >17 W/O CC
		033	033 CONCUSSION AGE 0-17
		034	034 OTHER DISORDERS OF NERVOUS SYSTEM W CC
		035	035 OTHER DISORDERS OF NERVOUS SYSTEM W/O CC
		036	036 RETINAL PROCEDURES
		037	037 ORBITAL PROCEDURES
		038	038 PRIMARY IRIS PROCEDURES
		039	039 LENS PROCEDURES WITH OR WITHOUT VITRECTOMY
		040	040 EXTRAOCULAR PROCEDURES EXCEPT ORBIT AGE >17
		041	041 EXTRAOCULAR PROCEDURES EXCEPT ORBIT AGE 0-17
		042	042 INTRAOCULAR PROCEDURES EXCEPT RETINA, IRIS & LENS
		043	043 HYPHEMA
		044	044 ACUTE MAJOR EYE INFECTIONS
		045	045 NEUROLOGICAL EYE DISORDERS
		046	046 OTHER DISORDERS OF THE EYE AGE >17 W CC
		047	047 OTHER DISORDERS OF THE EYE AGE >17 W/O CC
		048	048 OTHER DISORDERS OF THE EYE AGE 0-17
		049	049 MAJOR HEAD & NECK PROCEDURES
		050	050 SALIVARY GLAND PROCEDURES EXCEPT SIALOADENECTOMY
		051	051 SALIVARY GLAND PROCEDURES EXCEPT SIALOADENECTOMY
		052	052 CLEFT LIP & PALATE REPAIR
		053	053 SINUS & MASTOID PROCEDURES AGE >17
		054	054 SINUS & MASTOID PROCEDURES AGE 0-17
		055	055 MISCELLANEOUS EAR, NOSE, MOUTH & THROAT PROCEDURES

Format Name	Format Type	Starting Value for Format	Format Value Label
		056	056 RHINOPLASTY
AGE >17		057	057 T&A PROC, EXCEPT TONSILLECTOMY &/OR ADENOIDECTOMY ONLY,
AGE 0-17		058	058 T&A PROC, EXCEPT TONSILLECTOMY &/OR ADENOIDECTOMY ONLY,
		059	059 TONSILLECTOMY &/OR ADENOIDECTOMY ONLY, AGE >17
		060	060 TONSILLECTOMY &/OR ADENOIDECTOMY ONLY, AGE 0-17
		061	061 MYRINGOTOMY W TUBE INSERTION AGE >17
		062	062 MYRINGOTOMY W TUBE INSERTION AGE 0-17
		063	063 OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES
		064	064 EAR, NOSE, MOUTH & THROAT MALIGNANCY
		065	065 DYSEQUILIBRIUM
		066	066 EPISTAXIS
		067	067 EPIGLOTTITIS
		068	068 OTITIS MEDIA & URI AGE >17 W CC
		069	069 OTITIS MEDIA & URI AGE >17 W/O CC
		070	070 OTITIS MEDIA & URI AGE 0-17
		071	071 LARYNGOTRACHEITIS
		072	072 NASAL TRAUMA & DEFORMITY
		073	073 OTHER EAR, NOSE, MOUTH & THROAT DIAGNOSES AGE >17
		074	074 OTHER EAR, NOSE, MOUTH & THROAT DIAGNOSES AGE 0-17
		075	075 MAJOR CHEST PROCEDURES
		076	076 OTHER RESP SYSTEM O.R. PROCEDURES W CC
		077	077 OTHER RESP SYSTEM O.R. PROCEDURES W/O CC
		078	078 PULMONARY EMBOLISM
		079	079 RESPIRATORY INFECTIONS & INFLAMMATIONS AGE >17 W CC
		080	080 RESPIRATORY INFECTIONS & INFLAMMATIONS AGE >17 W/O CC
		081	081 RESPIRATORY INFECTIONS & INFLAMMATIONS AGE 0-17
		082	082 RESPIRATORY NEOPLASMS
		083	083 MAJOR CHEST TRAUMA W CC
		084	084 MAJOR CHEST TRAUMA W/O CC
		085	085 PLEURAL EFFUSION W CC
		086	086 PLEURAL EFFUSION W/O CC
		087	087 PULMONARY EDEMA & RESPIRATORY FAILURE
		088	088 CHRONIC OBSTRUCTIVE PULMONARY DISEASE
		089	089 SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC
		090	090 SIMPLE PNEUMONIA & PLEURISY AGE >17 W/O CC
		091	091 SIMPLE PNEUMONIA & PLEURISY AGE 0-17
		092	092 INTERSTITIAL LUNG DISEASE W CC
		093	093 INTERSTITIAL LUNG DISEASE W/O CC
		094	094 PNEUMOTHORAX W CC
		095	095 PNEUMOTHORAX W/O CC
		096	096 BRONCHITIS & ASTHMA AGE >17 W CC
		097	097 BRONCHITIS & ASTHMA AGE >17 W/O CC
		098	098 BRONCHITIS & ASTHMA AGE 0-17
		099	099 RESPIRATORY SIGNS & SYMPTOMS W CC
		100	100 RESPIRATORY SIGNS & SYMPTOMS W/O CC
		101	101 OTHER RESPIRATORY SYSTEM DIAGNOSES W CC
		102	102 OTHER RESPIRATORY SYSTEM DIAGNOSES W/O CC
		103	103 HEART TRANSPLANT
		104	104 CARDIAC VALVE PROCEDURES W CARDIAC CATH
		105	105 CARDIAC VALVE PROCEDURES W/O CARDIAC CATH
		106	106 CORONARY BYPASS W CARDIAC CATH
		107	107 CORONARY BYPASS W/O CARDIAC CATH
		108	108 OTHER CARDIOTHORACIC PROCEDURES
CARDIAC CATH		109	109 OTH CARDIOTHORACIC PROC W/O PUMP/CORONARY BYPASS W/O
		110	110 MAJOR CARDIOVASCULAR PROCEDURES W CC
		111	111 MAJOR CARDIOVASCULAR PROCEDURES W/O CC
		112	112 PERCUTANEOUS CARDIOVASCULAR PROCEDURES

Format Name	Format Type	Starting Value for Format	Format Value Label
TOE		113	113 AMPUTATION FOR CIRC SYSTEM DISORDERS EXCEPT UPPER LIMB &
		114	114 UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS
		115	115 PERM CARDIAC PACEMAKER IMPLANT W AMI, HEART FAILURE OR
SHOCK			
		116	116 OTH PERM CARD PACEMKR IMPLANT/AICD LEAD/GENERATOR PROC/
PTCA W CORONARY ART STENT			
		117	117 CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT
		118	118 CARDIAC PACEMAKER DEVICE REPLACEMENT
		119	119 VEIN LIGATION & STRIPPING
		120	120 OTHER CIRCULATORY SYSTEM O.R. PROCEDURES
		121	121 CIRCULATORY DISORDERS W AMI & C.V. COMP DISCH ALIVE
		122	122 CIRCULATORY DISORDERS W AMI W/O C.V. COMP DISCH ALIVE
		123	123 CIRCULATORY DISORDERS W AMI, EXPIRED
		124	124 CIRCULATORY DISORDERS EXCEPT AMI, W CARD CATH & COMPLEX
	DIAG		
DIAG		125	125 CIRCULATORY DISORDERS EXCEPT AMI, W CARD CATH W/O COMPLEX
		126	126 ACUTE & SUBACUTE ENDOCARDITIS
		127	127 HEART FAILURE & SHOCK
		128	128 DEEP VEIN THROMBOPHLEBITIS
		129	129 CARDIAC ARREST, UNEXPLAINED
		130	130 PERIPHERAL VASCULAR DISORDERS W CC
		131	131 PERIPHERAL VASCULAR DISORDERS W/O CC
		132	132 ATHEROSCLEROSIS W CC
		133	133 ATHEROSCLEROSIS W/O CC
		134	134 HYPERTENSION
		135	135 CARDIAC CONGENITAL & VALVULAR DISORDERS AGE >17 W CC
		136	136 CARDIAC CONGENITAL & VALVULAR DISORDERS AGE >17 W/O CC
		137	137 CARDIAC CONGENITAL & VALVULAR DISORDERS AGE 0-17
		138	138 CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W CC
		139	139 CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W/O CC
		140	140 ANGINA PECTORIS
		141	141 SYNCOPE & COLLAPSE W CC
	142	142 SYNCOPE & COLLAPSE W/O CC	
	143	143 CHEST PAIN	
	144	144 OTHER CIRCULATORY SYSTEM DIAGNOSES W CC	
	145	145 OTHER CIRCULATORY SYSTEM DIAGNOSES W/O CC	
	146	146 RECTAL RESECTION W CC	
	147	147 RECTAL RESECTION W/O CC	
	148	148 MAJOR SMALL & LARGE BOWEL PROCEDURES W CC	
	149	149 MAJOR SMALL & LARGE BOWEL PROCEDURES W/O CC	
	150	150 PERITONEAL ADHESIOLYSIS W CC	
	151	151 PERITONEAL ADHESIOLYSIS W/O CC	
	152	152 MINOR SMALL & LARGE BOWEL PROCEDURES W CC	
	153	153 MINOR SMALL & LARGE BOWEL PROCEDURES W/O CC	
	154	154 STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE >17 W CC	
	155	155 STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE >17 W/O CC	
	156	156 STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE 0-17	
	157	157 ANAL & STOMAL PROCEDURES W CC	
	158	158 ANAL & STOMAL PROCEDURES W/O CC	
	159	159 HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL AGE >17 W CC	
	160	160 HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL AGE >17 W/O CC	
	161	161 INGUINAL & FEMORAL HERNIA PROCEDURES AGE >17 W CC	
	162	162 INGUINAL & FEMORAL HERNIA PROCEDURES AGE >17 W/O CC	
	163	163 HERNIA PROCEDURES AGE 0-17	
	164	164 APPENDECTOMY W COMPLICATED PRINCIPAL DIAG W CC	
	165	165 APPENDECTOMY W COMPLICATED PRINCIPAL DIAG W/O CC	
	166	166 APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W CC	
	167	167 APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W/O CC	

Format Name	Format Type	Starting Value for Format	Format Value Label
		168	168 MOUTH PROCEDURES W CC
		169	169 MOUTH PROCEDURES W/O CC
		170	170 OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W CC
		171	171 OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W/O CC
		172	172 DIGESTIVE MALIGNANCY W CC
		173	173 DIGESTIVE MALIGNANCY W/O CC
		174	174 G.I. HEMORRHAGE W CC
		175	175 G.I. HEMORRHAGE W/O CC
		176	176 COMPLICATED PEPTIC ULCER
		177	177 UNCOMPLICATED PEPTIC ULCER W CC
		178	178 UNCOMPLICATED PEPTIC ULCER W/O CC
		179	179 INFLAMMATORY BOWEL DISEASE
		180	180 G.I. OBSTRUCTION W CC
		181	181 G.I. OBSTRUCTION W/O CC
		182	182 ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS AGE >17 W CC
CC		183	183 ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS AGE >17 W/O
		184	184 ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS AGE 0-17
		185	185 DENTAL & ORAL DIS EXCEPT EXTRACTIONS & RESTORATIONS, AGE >17
		186	186 DENTAL & ORAL DIS EXCEPT EXTRACTIONS & RESTORATIONS, AGE 0-17
		187	187 DENTAL EXTRACTIONS & RESTORATIONS
		188	188 OTHER DIGESTIVE SYSTEM DIAGNOSES AGE >17 W CC
		189	189 OTHER DIGESTIVE SYSTEM DIAGNOSES AGE >17 W/O CC
		190	190 OTHER DIGESTIVE SYSTEM DIAGNOSES AGE 0-17
		191	191 PANCREAS, LIVER & SHUNT PROCEDURES W CC
		192	192 PANCREAS, LIVER & SHUNT PROCEDURES W/O CC
CC		193	193 BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W
CC		194	194 BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W/O
		195	195 CHOLECYSTECTOMY W C.D.E. W CC
		196	196 CHOLECYSTECTOMY W C.D.E. W/O CC
		197	197 CHOLECYSTECTOMY EXCEPT BY LAPAROSCOPE W/O C.D.E. W CC
		198	198 CHOLECYSTECTOMY EXCEPT BY LAPAROSCOPE W/O C.D.E. W/O CC
		199	199 HEPATOBILIARY DIAGNOSTIC PROCEDURE FOR MALIGNANCY
		200	200 HEPATOBILIARY DIAGNOSTIC PROCEDURE FOR NON-MALIGNANCY
		201	201 OTHER HEPATOBILIARY OR PANCREAS O.R. PROCEDURES
		202	202 CIRRHOSIS & ALCOHOLIC HEPATITIS
		203	203 MALIGNANCY OF HEPATOBILIARY SYSTEM OR PANCREAS
		204	204 DISORDERS OF PANCREAS EXCEPT MALIGNANCY
		205	205 DISORDERS OF LIVER EXCEPT MALIG,CIRR,ALC HEPA W CC
		206	206 DISORDERS OF LIVER EXCEPT MALIG,CIRR,ALC HEPA W/O CC
		207	207 DISORDERS OF THE BILIARY TRACT W CC
		208	208 DISORDERS OF THE BILIARY TRACT W/O CC
TREMITY		209	209 MAJOR JOINT & LIMB REATTACHMENT PROCEDURES OF LOWER EX-
		210	210 HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT AGE >17 W CC
		211	211 HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT AGE >17 W/O CC
		212	212 HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT AGE 0-17
ORDERS		213	213 AMPUTATION FOR MUSCULOSKELETAL SYSTEM & CONN TISSUE DIS-
		214	214 BACK & NECK PROCEDURES W CC
		215	215 BACK & NECK PROCEDURES W/O CC
		216	216 BIOPSIES OF MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE
TISS DIS		217	217 WND DEBRID & SKN GRFT EXCEPT HAND, FOR MUSCSKELET & CONN
CC		218	218 LOWER EXTREM & HUMER PROC EXCEPT HIP, FOOT, FEMUR AGE >17 W
W/O CC		219	219 LOWER EXTREM & HUMER PROC EXCEPT HIP, FOOT, FEMUR AGE >17

Format Name	Format Type	Starting Value for Format	Format Value Label
		220	220 LOWER EXTREM & HUMER PROC EXCEPT HIP,FOOT,FEMUR AGE 0-17
		221	221 KNEE PROCEDURES W CC
		222	222 KNEE PROCEDURES W/O CC
W	CC	223	223 MAJOR SHOULDER/ELBOW PROC, OR OTHER UPPER EXTREMITY PROC
		224	224 SHOULDER,ELBOW OR FOREARM PROC,EXC MAJOR JOINT PROC, W/O
CC		225	225 FOOT PROCEDURES
		226	226 SOFT TISSUE PROCEDURES W CC
		227	227 SOFT TISSUE PROCEDURES W/O CC
		228	228 MAJOR THUMB OR JOINT PROC,OR OTH HAND OR WRIST PROC W CC
		229	229 HAND OR WRIST PROC, EXCEPT MAJOR JOINT PROC, W/O CC
		230	230 LOCAL EXCISION & REMOVAL OF INT FIX DEVICES OF HIP & FEMUR
MUR		231	231 LOCAL EXCISION & REMOVAL OF INT FIX DEVICES EXCEPT HIP & FE-
		232	232 ARTHROSCOPY
		233	233 OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W CC
		234	234 OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W/O CC
		235	235 FRACTURES OF FEMUR
		236	236 FRACTURES OF HIP & PELVIS
		237	237 SPRAINS, STRAINS, & DISLOCATIONS OF HIP, PELVIS & THIGH
		238	238 OSTEOMYELITIS
LIGNANCY		239	239 PATHOLOGICAL FRACTURES & MUSCULOSKELETAL & CONN TISS MA-
		240	240 CONNECTIVE TISSUE DISORDERS W CC
		241	241 CONNECTIVE TISSUE DISORDERS W/O CC
		242	242 SEPTIC ARTHRITIS
		243	243 MEDICAL BACK PROBLEMS
		244	244 BONE DISEASES & SPECIFIC ARTHROPATHIES W CC
		245	245 BONE DISEASES & SPECIFIC ARTHROPATHIES W/O CC
		246	246 NON-SPECIFIC ARTHROPATHIES
		247	247 SIGNS & SYMPTOMS OF MUSCULOSKELETAL SYSTEM & CONN TISSUE
		248	248 TENDONITIS, MYOSITIS & BURSITIS
		249	249 AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE
		250	250 FX, SPRN, STRN & DISL OF FOREARM, HAND, FOOT AGE >17 W CC
		251	251 FX, SPRN, STRN & DISL OF FOREARM, HAND, FOOT AGE >17 W/O CC
		252	252 FX, SPRN, STRN & DISL OF FOREARM, HAND, FOOT AGE 0-17
		253	253 FX, SPRN, STRN & DISL OF UPARM,LOWLEG EX FOOT AGE >17 W CC
		254	254 FX, SPRN, STRN & DISL OF UPARM,LOWLEG EX FOOT AGE >17 W/O CC
		255	255 FX, SPRN, STRN & DISL OF UPARM,LOWLEG EX FOOT AGE 0-17
SES		256	256 OTHER MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE DIAGNO-
		257	257 TOTAL MASTECTOMY FOR MALIGNANCY W CC
		258	258 TOTAL MASTECTOMY FOR MALIGNANCY W/O CC
		259	259 SUBTOTAL MASTECTOMY FOR MALIGNANCY W CC
		260	260 SUBTOTAL MASTECTOMY FOR MALIGNANCY W/O CC
SION		261	261 BREAST PROC FOR NON-MALIGNANCY EXCEPT BIOPSY & LOCAL EXCI-
		262	262 BREAST BIOPSY & LOCAL EXCISION FOR NON-MALIGNANCY
		263	263 SKIN GRAFT &/OR DEBRID FOR SKN ULCER OR CELLULITIS W CC
		264	264 SKIN GRAFT &/OR DEBRID FOR SKN ULCER OR CELLULITIS W/O CC
CC		265	265 SKIN GRAFT &/OR DEBRID EXCEPT FOR SKIN ULCER OR CELLULITIS W
		266	266 SKIN GRAFT &/OR DEBRID EXCEPT FOR SKIN ULCER OR CELLULITIS
W/O CC		267	267 PERIANAL & PILONIDAL PROCEDURES
		268	268 SKIN, SUBCUTANEOUS TISSUE & BREAST PLASTIC PROCEDURES
		269	269 OTHER SKIN, SUBCUT TISS & BREAST PROC W CC
		270	270 OTHER SKIN, SUBCUT TISS & BREAST PROC W/O CC
		271	271 SKIN ULCERS

Format Name	Format Type	Starting Value for Format	Format Value Label
		272	272 MAJOR SKIN DISORDERS W CC
		273	273 MAJOR SKIN DISORDERS W/O CC
		274	274 MALIGNANT BREAST DISORDERS W CC
		275	275 MALIGNANT BREAST DISORDERS W/O CC
		276	276 NON-MALIGANT BREAST DISORDERS
		277	277 CELLULITIS AGE >17 W CC
		278	278 CELLULITIS AGE >17 W/O CC
		279	279 CELLULITIS AGE 0-17
		280	280 TRAUMA TO THE SKIN, SUBCUT TISS & BREAST AGE >17 W CC
		281	281 TRAUMA TO THE SKIN, SUBCUT TISS & BREAST AGE >17 W/O CC
		282	282 TRAUMA TO THE SKIN, SUBCUT TISS & BREAST AGE 0-17
		283	283 MINOR SKIN DISORDERS W CC
		284	284 MINOR SKIN DISORDERS W/O CC
ORDERS		285	285 AMPUTAT OF LOWER LIMB FOR ENDOCRINE,NUTRIT,& METABOL DIS-
		286	286 ADRENAL & PITUITARY PROCEDURES
DERS		287	287 SKIN GRAFTS & WOUND DEBRID FOR ENDOC, NUTRIT & METAB DISOR-
		288	288 O.R. PROCEDURES FOR OBESITY
		289	289 PARATHYROID PROCEDURES
		290	290 THYROID PROCEDURES
		291	291 THYROGLOSSAL PROCEDURES
		292	292 OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W CC
		293	293 OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W/O CC
		294	294 DIABETES AGE >35
		295	295 DIABETES AGE 0-35
		296	296 NUTRITIONAL & MISC METABOLIC DISORDERS AGE >17 W CC
		297	297 NUTRITIONAL & MISC METABOLIC DISORDERS AGE >17 W/O CC
		298	298 NUTRITIONAL & MISC METABOLIC DISORDERS AGE 0-17
		299	299 INBORN ERRORS OF METABOLISM
		300	300 ENDOCRINE DISORDERS W CC
		301	301 ENDOCRINE DISORDERS W/O CC
		302	302 KIDNEY TRANSPLANT
		303	303 KIDNEY,URETER & MAJOR BLADDER PROCEDURES FOR NEOPLASM
		304	304 KIDNEY,URETER & MAJOR BLADDER PROC FOR NON-NEOPL W CC
		305	305 KIDNEY,URETER & MAJOR BLADDER PROC FOR NON-NEOPL W/O CC
		306	306 PROSTATECTOMY W CC
		307	307 PROSTATECTOMY W/O CC
		308	308 MINOR BLADDER PROCEDURES W CC
		309	309 MINOR BLADDER PROCEDURES W/O CC
		310	310 TRANSURETHRAL PROCEDURES W CC
		311	311 TRANSURETHRAL PROCEDURES W/O CC
		312	312 URETHRAL PROCEDURES, AGE >17 W CC
		313	313 URETHRAL PROCEDURES, AGE >17 W/O CC
		314	314 URETHRAL PROCEDURES, AGE 0-17
		315	315 OTHER KIDNEY & URINARY TRACT O.R. PROCEDURES
		316	316 RENAL FAILURE
		317	317 ADMIT FOR RENAL DIALYSIS
		318	318 KIDNEY & URINARY TRACT NEOPLASMS W CC
		319	319 KIDNEY & URINARY TRACT NEOPLASMS W/O CC
		320	320 KIDNEY & URINARY TRACT INFECTIONS AGE >17 W CC
		321	321 KIDNEY & URINARY TRACT INFECTIONS AGE >17 W/O CC
		322	322 KIDNEY & URINARY TRACT INFECTIONS AGE 0-17
		323	323 URINARY STONES W CC, &/OR ESW LITHOTRIPSY
		324	324 URINARY STONES W/O CC
		325	325 KIDNEY & URINARY TRACT SIGNS & SYMPTOMS AGE >17 W CC
		326	326 KIDNEY & URINARY TRACT SIGNS & SYMPTOMS AGE >17 W/O CC
		327	327 KIDNEY & URINARY TRACT SIGNS & SYMPTOMS AGE 0-17
		328	328 URETHRAL STRICTURE AGE >17 W CC
		329	329 URETHRAL STRICTURE AGE >17 W/O CC

Format Name	Format Type	Starting Value for Format	Format Value Label
		330	330 URETHRAL STRICTURE AGE 0-17
		331	331 OTHER KIDNEY & URINARY TRACT DIAGNOSES AGE >17 W CC
		332	332 OTHER KIDNEY & URINARY TRACT DIAGNOSES AGE >17 W/O CC
		333	333 OTHER KIDNEY & URINARY TRACT DIAGNOSES AGE 0-17
		334	334 MAJOR MALE PELVIC PROCEDURES W CC
		335	335 MAJOR MALE PELVIC PROCEDURES W/O CC
		336	336 TRANSURETHRAL PROSTATECTOMY W CC
		337	337 TRANSURETHRAL PROSTATECTOMY W/O CC
		338	338 TESTES PROCEDURES, FOR MALIGNANCY
		339	339 TESTES PROCEDURES, NON-MALIGNANCY AGE >17
		340	340 TESTES PROCEDURES, NON-MALIGNANCY AGE 0-17
		341	341 PENIS PROCEDURES
		342	342 CIRCUMCISION AGE >17
		343	343 CIRCUMCISION AGE 0-17
NANCY		344	344 OTHER MALE REPRODUCTIVE SYSTEM O.R. PROCEDURES FOR MALIG-
NANCY		345	345 OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC EXCEPT FOR MALIG-
		346	346 MALIGNANCY, MALE REPRODUCTIVE SYSTEM, W CC
		347	347 MALIGNANCY, MALE REPRODUCTIVE SYSTEM, W/O CC
		348	348 BENIGN PROSTATIC HYPERTROPHY W CC
		349	349 BENIGN PROSTATIC HYPERTROPHY W/O CC
		350	350 INFLAMMATION OF THE MALE REPRODUCTIVE SYSTEM
		351	351 STERILIZATION, MALE
		352	352 OTHER MALE REPRODUCTIVE SYSTEM DIAGNOSES
TOMY		353	353 PELVIC EVISCERATION, RADICAL HYSTERECTOMY & RADICAL VULVEC-
		354	354 UTERINE,ADNEXA PROC FOR NON-OVARIAN/ADNEXAL MALIG W CC
		355	355 UTERINE,ADNEXA PROC FOR NON-OVARIAN/ADNEXAL MALIG W/O CC
		356	356 FEMALE REPRODUCTIVE SYSTEM RECONSTRUCTIVE PROCEDURES
		357	357 UTERINE & ADNEXA PROC FOR OVARIAN OR ADNEXAL MALIGNANCY
		358	358 UTERINE & ADNEXA PROC FOR NON-MALIGNANCY W CC
		359	359 UTERINE & ADNEXA PROC FOR NON-MALIGNANCY W/O CC
		360	360 VAGINA, CERVIX & VULVA PROCEDURES
		361	361 LAPAROSCOPY & INCISIONAL TUBAL INTERRUPTION
		362	362 ENDOSCOPIC TUBAL INTERRUPTION
		363	363 D&C, CONIZATION & RADIO-IMPLANT, FOR MALIGNANCY
		364	364 D&C, CONIZATION EXCEPT FOR MALIGNANCY
		365	365 OTHER FEMALE REPRODUCTIVE SYSTEM O.R. PROCEDURES
		366	366 MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W CC
		367	367 MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W/O CC
		368	368 INFECTIONS, FEMALE REPRODUCTIVE SYSTEM
		369	369 MENSTRUAL & OTHER FEMALE REPRODUCTIVE SYSTEM DISORDERS
		370	370 CESAREAN SECTION W CC
		371	371 CESAREAN SECTION W/O CC
		372	372 VAGINAL DELIVERY W COMPLICATING DIAGNOSES
		373	373 VAGINAL DELIVERY W/O COMPLICATING DIAGNOSES
		374	374 VAGINAL DELIVERY W STERILIZATION &/OR D&C
		375	375 VAGINAL DELIVERY W O.R. PROC EXCEPT STERIL &/OR D&C
		376	376 POSTPARTUM & POST ABORTION DIAGNOSES W/O O.R. PROCEDURE
		377	377 POSTPARTUM & POST ABORTION DIAGNOSES W O.R. PROCEDURE
		378	378 ECTOPIC PREGNANCY
		379	379 THREATENED ABORTION
		380	380 ABORTION W/O D&C
		381	381 ABORTION W D&C, ASPIRATION CURETTAGE OR HYSTEROTOMY
		382	382 FALSE LABOR
		383	383 OTHER ANTEPARTUM DIAGNOSES W MEDICAL COMPLICATIONS
		384	384 OTHER ANTEPARTUM DIAGNOSES W/O MEDICAL COMPLICATIONS
ITY		385	385 NEONATES, DIED OR TRANSFERRED TO ANOTHER ACUTE CARE FACIL-

Format Name	Format Type	Starting Value for Format	Format Value Label
NATE		386	386 EXTREME IMMATURETY OR RESPIRATORY DISTRESS SYNDROME, NEO-
		387	387 PREMATURETY W MAJOR PROBLEMS
		388	388 PREMATURETY W/O MAJOR PROBLEMS
		389	389 FULL TERM NEONATE W MAJOR PROBLEMS
		390	390 NEONATE W OTHER SIGNIFICANT PROBLEMS
		391	391 NORMAL NEWBORN
		392	392 SPLENECTOMY AGE >17
		393	393 SPLENECTOMY AGE 0-17
GANS		394	394 OTHER O.R. PROCEDURES OF THE BLOOD AND BLOOD FORMING OR-
		395	395 RED BLOOD CELL DISORDERS AGE >17
		396	396 RED BLOOD CELL DISORDERS AGE 0-17
		397	397 COAGULATION DISORDERS
		398	398 RETICULOENDOTHELIAL & IMMUNITY DISORDERS W CC
		399	399 RETICULOENDOTHELIAL & IMMUNITY DISORDERS W/O CC
		400	400 LYMPHOMA & LEUKEMIA W MAJOR O.R. PROCEDURE
		401	401 LYMPHOMA & NON-ACUTE LEUKEMIA W OTHER O.R. PROC W CC
		402	402 LYMPHOMA & NON-ACUTE LEUKEMIA W OTHER O.R. PROC W/O CC
		403	403 LYMPHOMA & NON-ACUTE LEUKEMIA W CC
		404	404 LYMPHOMA & NON-ACUTE LEUKEMIA W/O CC
		405	405 ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE AGE 0-17
		406	406 MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R.PROC W CC
		407	407 MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R.PROC W/O
CC		408	408 MYELOPROLIF DISORD OR POORLY DIFF NEOPL W OTHER O.R.PROC
		409	409 RADIOTHERAPY
		410	410 CHEMOTHERAPY W/O ACUTE LEUKEMIA AS SECONDARY DIAGNOSIS
		411	411 HISTORY OF MALIGNANCY W/O ENDOSCOPY
		412	412 HISTORY OF MALIGNANCY W ENDOSCOPY
		413	413 OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W CC
		414	414 OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W/O CC
		415	415 O.R. PROCEDURE FOR INFECTIOUS & PARASITIC DISEASES
		416	416 SEPTICEMIA AGE >17
		417	417 SEPTICEMIA AGE 0-17
		418	418 POSTOPERATIVE & POST-TRAUMATIC INFECTIONS
		419	419 FEVER OF UNKNOWN ORIGIN AGE >17 W CC
		420	420 FEVER OF UNKNOWN ORIGIN AGE >17 W/O CC
		421	421 VIRAL ILLNESS AGE >17
		422	422 VIRAL ILLNESS & FEVER OF UNKNOWN ORIGIN AGE 0-17
		423	423 OTHER INFECTIOUS & PARASITIC DISEASES DIAGNOSES
		424	424 O.R. PROCEDURE W PRINCIPAL DIAGNOSES OF MENTAL ILLNESS
	TION		425
		426	426 DEPRESSIVE NEUROSES
		427	427 NEUROSES EXCEPT DEPRESSIVE
		428	428 DISORDERS OF PERSONALITY & IMPULSE CONTROL
		429	429 ORGANIC DISTURBANCES & MENTAL RETARDATION
		430	430 PSYCHOSES
		431	431 CHILDHOOD MENTAL DISORDERS
		432	432 OTHER MENTAL DISORDER DIAGNOSES
		433	433 ALCOHOL/DRUG ABUSE OR DEPENDENCE, LEFT AMA
		434	434 ALC/DRUG ABUSE OR DEPEND, DETOX OR OTH SYMPT TREAT W CC
		435	435 ALC/DRUG ABUSE OR DEPEND, DETOX OR OTH SYMPT TREAT W/O CC
		436	436 ALC/DRUG DEPENDENCE W REHABILITATION THERAPY
		437	437 ALC/DRUG DEPENDENCE, COMBINED REHAB & DETOX THERAPY
		438	438 NO LONGER VALID
		439	439 SKIN GRAFTS FOR INJURIES
		440	440 WOUND DEBRIDEMENTS FOR INJURIES
		441	441 HAND PROCEDURES FOR INJURIES

Format Name	Format Type	Starting Value for Format	Format Value Label
		442	442 OTHER O.R. PROCEDURES FOR INJURIES W CC
		443	443 OTHER O.R. PROCEDURES FOR INJURIES W/O CC
		444	444 TRAUMATIC INJURY AGE >17 W CC
		445	445 TRAUMATIC INJURY AGE >17 W/O CC
		446	446 TRAUMATIC INJURY AGE 0-17
		447	447 ALLERGIC REACTIONS AGE >17
		448	448 ALLERGIC REACTIONS AGE 0-17
		449	449 POISONING & TOXIC EFFECTS OF DRUGS AGE >17 W CC
		450	450 POISONING & TOXIC EFFECTS OF DRUGS AGE >17 W/O CC
		451	451 POISONING & TOXIC EFFECTS OF DRUGS AGE 0-17
		452	452 COMPLICATIONS OF TREATMENT W CC
		453	453 COMPLICATIONS OF TREATMENT W/O CC
		454	454 OTHER INJURY, POISONING & TOXIC EFFECT DIAG W CC
		455	455 OTHER INJURY, POISONING & TOXIC EFFECT DIAG W/O CC
		456	456 BURNS, TRANSFERRED TO ANOTHER ACUTE CARE FACILITY
		457	457 EXTENSIVE BURNS W/O O.R. PROCEDURE
		458	458 NON-EXTENSIVE BURNS W SKIN GRAFT
		459	459 NON-EXTENSIVE BURNS W WOUND DEBRIDEMENT OR OTHER O.R.
PROC			
		460	460 NON-EXTENSIVE BURNS W/O O.R. PROCEDURE
		461	461 O.R. PROC W DIAGNOSES OF OTHER CONTACT W HEALTH SERVICES
		462	462 REHABILITATION
		463	463 SIGNS & SYMPTOMS W CC
		464	464 SIGNS & SYMPTOMS W/O CC
		465	465 AFTERCARE W HISTORY OF MALIGNANCY AS SECONDARY DIAGNOSIS
		466	466 AFTERCARE W/O HISTORY OF MALIGNANCY AS SECONDARY DIAGNO-
SIS			
		467	467 OTHER FACTORS INFLUENCING HEALTH STATUS
		468	468 EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS
		469	469 PRINCIPAL DIAGNOSIS INVALID AS DISCHARGE DIAGNOSIS
		470	470 UNGROUPABLE
		471	471 BILATERAL OR MULTIPLE MAJOR JOINT PROCS OF LOWER EXTREMITY
		472	472 EXTENSIVE BURNS W O.R. PROCEDURE
		473	473 ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE AGE >17
		475	475 RESPIRATORY SYSTEM DIAGNOSIS WITH VENTILATOR SUPPORT
		476	476 PROSTATIC O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS
		477	477 NON-EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAG-
NOSIS			
		478	478 OTHER VASCULAR PROCEDURES W CC
		479	479 OTHER VASCULAR PROCEDURES W/O CC
		480	480 LIVER TRANSPLANT
		481	481 BONE MARROW TRANSPLANT
		482	482 TRACHEOSTOMY FOR FACE, MOUTH & NECK DIAGNOSES
		483	483 TRACHEOSTOMY EXCEPT FOR FACE, MOUTH & NECK DIAGNOSES
		484	484 CRANIOTOMY FOR MULTIPLE SIGNIFICANT TRAUMA
		485	485 LIMB REATTACHMENT, HIP AND FEMUR PROC FOR MULTIPLE SIGNIFI-
CANT TRAUM			
		486	486 OTHER O.R. PROCEDURES FOR MULTIPLE SIGNIFICANT TRAUMA
		487	487 OTHER MULTIPLE SIGNIFICANT TRAUMA
		488	488 HIV W EXTENSIVE O.R. PROCEDURE
		489	489 HIV W MAJOR RELATED CONDITION
		490	490 HIV W OR W/O OTHER RELATED CONDITION
		491	491 MAJOR JOINT & LIMB REATTACHMENT PROCEDURES OF UPPER EX-
TREMITY			
		492	492 CHEMOTHERAPY W ACUTE LEUKEMIA AS SECONDARY DIAGNOSIS
		493	493 LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W CC
		494	494 LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W/O CC
		495	495 LUNG TRANSPLANT
		496	496 COMBINED ANTERIOR/POSTERIOR SPINAL FUSION
		497	497 SPINAL FUSION W CC

Format Name	Format Type	Starting Value for Format	Format Value Label
		498	498 SPINAL FUSION W/O CC
		499	499 BACK & NECK PROCS EXCEPT SPINAL FUSION W CC
		500	500 BACK & NECK PROCS EXCEPT SPINAL FUSION W/O CC
		501	501 KNEE PROC W PDX OF INFECTION W CC
		502	502 KNEE PROC W PDX OF INFECTION W/O CC
		503	503 KNEE PROCEDURES W/O PDX OF INFECTION
		504	504 EXTENSIVE 3RD DEGREE BURN W SKIN GRAFT
		505	505 EXTENSIVE 3RD DEGREE BURN W/O SKIN GRAFT
		506	506 FULL THICK BURN W SK GRAFT OR INHAL INJ W CC OR SIG TR
		507	507 FULL THICK BURN W SK GRAFT OR INHAL INJ W/O CC OR SIG TR
		508	508 FULL THICK BURN W/O SK GRAFT OR INHAL INJ W CC OR SIG TR
		509	509 FULL THICK BURN W/O SK GRAFT OR INHAL INJ W/O CC OR SIG TR
		510	510 NON-EXTENSIVE BURNS W CC OR SIGNIFICANT TRAUMA
		511	511 NON-EXTENSIVE BURNS W/O CC OR SIGNIFICANT TRAUMA
		999	999 Missing
		T 5	T 5 Unknown
DRG_DES	Character	01	01 Home, self care
		02	02 Shortterm hospital
		03	03 SNF
		04	04 ICF
		05	05 Other type facility
		06	06 Home, health service care
		07	07 Left against medical advice
		08	08 Home, IV therapy provider
		09	09 Admitted here (OP considered IP)
		20	20 Died
		30	30 Still patient
		40	40 Died at home (Hospice only)
		41	41 Died at medical facility (Hospice only)
		42	42 Died, place unknown (Hospice only)
		50	50 Hospice - home
		51	51 Hospice - medical facility
		61	61 Discharged - swing bed
		62	62 Discharged to IP rehab
		63	63 Transferred to long term care
		64	64 Discharged to nursing facility
		71	71 Discharged to other facility for OP services
		72	72 Discharged to this facility for OP services
		99	99 Missing
DRLOCUS	Character	1	1
		10	10
		103	103
		11	11
		12	12
		13	13
		14	14
		1403	1403
		1404	1404
		15	15
		16	16
		17	17
		18	18
		2	2
		3	3
		4	4
		5	5
		6	6
		7	7

Format Name	Format Type	Starting Value for Format	Format Value Label
		8	8
		9	9
		97	Unknown
		98	Confirmed Blk
		99	Not Tested
	Numeric	0	0
		1	1
		2	2
		3	3
		4	4
		5	5
		6	6
		7	7
		8	8
		9	9
		10	10
		11	11
		12	12
		13	13
		14	14
		15	15
		16	16
		17	17
		18	18
		97	Unknown
		98	No second antigen detected
		99	Not Tested
		103	103
		1403	1403
		1404	1404
DRUG	Numeric	-3	OKT4
		-2	Cyclosporin
		-1	ALG
		1	Prednisone (Deltasone, Orasone)
		2	Methylprednisolone (Solu-medrol, Medrol, A-Methapred)
		3	Sandimmune (Cyclosporine A)
		4	Neoral (CyA-NOF)
		5	Tacrolimus (Prograf, FK506)
		6	Sirolimus (RAPA, Rapamycin, Rapamune)
		7	Leflunomide (LFL)
		8	Azathioprine (AZA, Imuran)
		9	Mycophenolate Mofetil (MMF, Cellcept, RS61443)
		10	Cyclophosphamide (Cytosan)
		11	Methotrexate (Folex, PFS, Mexate-AQ, Rheumatrex)
		12	Brequinar Sodium (BQR)
		13	Mizoribine (Bredinin)
		14	Atgam (ATG, Anti-thymocyte Globulin)/NRATG/NRATS
		15	NRATG /NRATS
		16	OKT3 (Orthoclone, Muromonab)
		19	Xoma Zyme - CD5+
		20	DAB486 - IL -2
		21	Anti - LFA -1
		22	Anti - ICAM - 1
		23	IL - 1 Receptor Antagonist
		24	Anti - IL - 6
		25	Anti - TNF
		26	Soluble IL - 1 Receptor
		27	Aldesleukin (IL - 2)
		28	T10B9 (Medimmune)

Format Name	Format Type	Starting Value for Format	Format Value Label
		30	Deoxyspergualin (DSG, 15-DSG, Gusperimus, Spanidin)
		40	Sang Cy A
		41	Thymoglobulin
		42	Zenapax - Daclizumab
		43	Simulect - Basiliximab
		44	Gengraf (Abbott Cyclosporine)
		45	Everolimus (RAD, Certican)
		46	EON (Generic Cyclosporine)
		47	ERL (Myfortic) - Mycophenolate Sodium
		48	Other generic Cyclosporine, specify brand:
		49	Steroids (Prednisone, Methylprednisolone, Solumedrol, Medrol, Decadron)
		50	Campath - Alemtuzumab (anti-CD52)
		51	FTY 720
		52	Rituximab
		97	Other Immunosuppressive Medication, Specify
		98	Other Immunosuppressive Medication, Specify
DTYPEDT	Character	1	Monozygotic Twin
		2	Dizygotic Twin
		3	Sibling
		4	Genetic Parent
		5	Child
		6	Cadaver
		7	Other
		8	Living related
		9	Unspecified
DTYFMT	Character	1	Living Related
		2	Living Related
		3	Living Related
		4	Living Related
		5	Living Related
		6	Cadaver
		7	Other
		8	Living Related
		9	Unspecified
		OTHER	Unspecified
D_CIRCUM	Numeric	1	MVA
		2	Suicide
		3	Homicide
		4	Child-Abuse
		5	Non-MVA
		6	Death From Natural Causes
		OTHER	Other Specify
D_MECH	Numeric	1	Drowning
		2	Seizure
		3	Drug Intoxication
		4	Asphyxiation
		5	Cardiovascular
		6	Electrical
		7	Gunshot Wound
		8	Stab
		9	Blunt Injury
		10	Sids
		11	Intracranial Hemorrhage/Stroke
		12	Death from Natural Causes
		OTHER	Other Specify

Format Name	Format Type	Starting Value for Format	Format Value Label
EDLEV	Character	'	Missing
		1	Less than 12 Yrs.
		2	High School Grad
		3	Some College
		4	College Grad
EDUC	Character	1	Less than 12 Years
		2	High school graduate
		3	Some college
		4	College graduate
		5	Unknown
ED_LEVEL	Numeric	1	None
		2	Grade School(0-8)
		3	High School(9-12)
		4	Attended College/Technical School
		5	Associate/Bachelor Degree
		6	Post-college Graduate Degree
		996	N/A(<5 yrs old)
		998	Unknown
EMPDMMMS	Character	1	Employed or student fulltime
		2	Employed or student part time
		3	Homemaker
		4	Retired
		5	Never employed
		6	Unemployed
		7	Disabled
		8	Other
EMPLEV	Character	'	Missing
		1	Employed full time or full time student
		2	Employed part time or part time student
		3	Homemaker
		4	Retired
		5	Unemployed
		6	Disabled
7	Other		
EMPLOY	Character	1	Employed full time
		2	Employed part time
		3	Full time student
		4	Part time student
		5	Retired
		6	Not empl outside home/homemaker
		7	Unemployed
		8	Disabled
		9	Other
EMPSTAT	Character	Missing	Missing
		1	Unemployed
		2	Emp full-time
		3	Emp pt-time
		4	Homemaker
		5	Ret-age
		6	Ret-disab
		7	Med LOA
		8	Student
		9	Other

Format Name	Format Type	Starting Value for Format	Format Value Label
EPOADM	Character	1 2	Intravenous Subcutaneous
ETHFMT	Character	1 2 3	Hispanic Non Hispanic Unknown
EXER	Character	1 2 3 4 5 6	Daily or almost daily 4-5 times a week 2-3 times a week About once a week Less than once a week Almost never or never
EXTEN5A	Character	1 2 3 4 5	Not at all Slightly Moderately Quite a bit Extremely
EXTEN5B	Character	1 2 3 4 5	Not at all Somewhat Moderately Very much Extremely
EXTEN5C	Character	1 2 3 4 5	Extremely Quite a bit Moderately Slightly Not at all
FLUSH	Numeric	300 301 302 303 304 305 306 307 308 309 310 998 999	VIASPAN (UW/BELZER) EUROCOLLINS MODIFIED COLLINS CARDIOPLEGE PULMOPLEGE SALINE RINGERS CELSIOR CUSTODIOL PERFADEX NO FLUSH UNKNOWN OTHER SPECIFY
FOLFMT	Character	001 003 006 010 020 030 040 050 060 070 080 090 100 110	Hospital Discharge 3 Month After Tx 6 Month After Tx 1 year After Tx 2 year After Tx 3 year After Tx 4 year After Tx 5 year After Tx 6 year After Tx 7 year After Tx 8 year After Tx 9 year After Tx 10 year After Tx 11 year After Tx

Format Name	Format Type	Starting Value for Format	Format Value Label
		120	12 year After Tx
		130	13 year After Tx
		140	14 year After Tx
		150	15 year After Tx
		160	16 year After Tx
		170	17 year After Tx
		180	18 year After Tx
		190	19 year After Tx
		200	20 year After Tx
		210	21 year After Tx
		220	22 year After Tx
		230	23 year After Tx
		240	24 year After Tx
		250	25 year After Tx
		260	26 year After Tx
		270	27 year After Tx
		280	28 year After Tx
		290	39 year After Tx
		300	30 year After Tx
		310	31 year After Tx
		320	32 year After Tx
		330	33 year After Tx
		340	34 year After Tx
		350	35 year After Tx
		360	36 year After Tx
		370	37 year After Tx
		380	38 year After Tx
		390	39 year After Tx
		400	40 year After Tx
		410	41 year After Tx
		420	42 year After Tx
		430	43 year After Tx
		440	44 year After Tx
		450	45 year After Tx
		460	46 year After Tx
		470	47 year After Tx
		480	48 year After Tx
		490	49 year After Tx
		500	50 year After Tx
		510	51 year After Tx
		520	52 year After Tx
		530	53 year After Tx
		540	54 year After Tx
		550	55 year After Tx
		560	56 year After Tx
		570	57 year After Tx
		580	58 year After Tx
		590	59 year After Tx
		600	60 year After Tx
		610	61 year After Tx
		620	62 year After Tx
		630	63 year After Tx
		640	64 year After Tx
		650	65 year After Tx
		660	66 year After Tx
		670	67 year After Tx
		680	68 year After Tx
		690	69 year After Tx
		700	70 year After Tx
		710	71 year After Tx

Format Name	Format Type	Starting Value for Format	Format Value Label
		720	72 year After Tx
		730	73 year After Tx
		740	74 year After Tx
		750	75 year After Tx
		760	76 year After Tx
		770	77 year After Tx
		780	78 year After Tx
		790	79 year After Tx
		800	Graft Failure
		801	1 Year After Graft Failure
		802	2 Year After Graft Failure
		803	3 Year After Graft Failure
		804	4 Year After Graft Failure
		805	5 Year After Graft Failure
		806	6 Year After Graft Failure
		807	7 Year After Graft Failure
		808	8 Year After Graft Failure
		809	9 Year After Graft Failure
		810	10 Year After Graft Failure
		811	11 Year After Graft Failure
		812	12 Year After Graft Failure
		813	13 Year After Graft Failure
		814	14 Year After Graft Failure
		815	15 Year After Graft Failure
		816	16 Year After Graft Failure
		817	17 Year After Graft Failure
		818	18 Year After Graft Failure
		819	19 Year After Graft Failure
		820	20 Year After Graft Failure
		821	21 Year After Graft Failure
		822	22 Year After Graft Failure
		823	23 Year After Graft Failure
		824	24 Year After Graft Failure
		825	25 Year After Graft Failure
		826	26 Year After Graft Failure
		827	27 Year After Graft Failure
		828	28 Year After Graft Failure
		829	29 Year After Graft Failure
		830	30 Year After Graft Failure
		831	31 Year After Graft Failure
		832	32 Year After Graft Failure
		833	33 Year After Graft Failure
		834	34 Year After Graft Failure
		835	35 Year After Graft Failure
		836	36 Year After Graft Failure
		837	37 Year After Graft Failure
		838	38 Year After Graft Failure
		839	39 Year After Graft Failure
		840	40 Year After Graft Failure
		841	41 Year After Graft Failure
		842	42 Year After Graft Failure
		843	43 Year After Graft Failure
		844	44 Year After Graft Failure
		845	45 Year After Graft Failure
		846	46 Year After Graft Failure
		847	47 Year After Graft Failure
		848	48 Year After Graft Failure
		849	49 Year After Graft Failure
		850	50 Year After Graft Failure
		900	Lost to Follow up:Reported Alive

Format Name	Format Type	Starting Value for Format	Format Value Label
		998	Lost to Follow up
		999	Recipient Death
		OTHER	Unknown
FORMTYPE	Numeric	1	Initial
		2	Re-entitlement
		3	Supplemental
FSCERT	Character	1	TRANSPLANT CENTER
		2	DIALYSIS CENTER
		3	DIALYSIS FACIL HOSPITAL
		4	DIALYSIS FACIL (FREE-STANDING)
		5	TRANSPLANT AND DIALYSIS CENTER
		6	OBSOLETE CATEGORY
		7	INPATIENT CARE ONLY
FSOWN	Character	01	INDIVIDUAL-FOR PROFIT
		02	PARTNERSHIP-FOR PROFIT
		03	CORPORATION-FOR PROFIT
		04	OTHER-FOR PROFIT
		05	INDIVIDUAL-NOT-FOR-PROFIT
		06	PARTNERSHIP-NOT-FOR-PROFIT
		07	CORPORATION-NOT-FOR-PROFIT
		08	OTHER-NOT-FOR-PROFIT
		09	STATE-GOV NON-FED
		10	COUNTY-GOV NON-FED
		11	CITY-GOV NON-FED
		12	CITY/COUNTY-GOV NON-FED
		13	HOSPITAL DIST/AUTH GOV NON-FED
		14	OTHER-GOV NON-FED
		15	VETERANS ADMIN - HCFA CERT
		15a	VETERANS ADMIN - NOT CERTIFIED
		16	PUBLIC HEALTH SERVICE- GOV FED
		17	MILITARY-GOV FED
		18	OTHER-GOV FED
		99	UNKNOWN-MISSING ON FORM
FUCHGTY	Character	01	no change in status or modality
		02	changed to PD (for at least 2 weeks)
		03	changed to hemodialysis (for at least 2 weeks)
		04	changed to home hemodialysis (for at least 2 weeks)
		05	return of renal function
		06	transferred to another facility
		07	kidney transplant
		08	died
		09	lost to followup
		10	withdrew from dialysis
FUMODAL	Character	1	hemo
		2	PD
FUNCSTAT	Numeric	1	No Activity Limitations. NYHA Cls I or Cls II
		2	Performs Activities of Daily Living w/ some assistance. HYHA Cls III
		3	Performs Activities of Daily Living w/ total assistance. NYHA Cls IV
		996	Not Applicable (patient < 1 year old)
		998	Unknown
		2010	10% - Moribund, fatal processes progressing rapidly
		2020	20% - Very sick, hospitalization necessary: active treatment necessary
		2030	30% - Severely disabled: hospitalization is indicated, death not imminent
		2040	40% - Disabled: requires special care and assistance

Format Name	Format Type	Starting Value for Format	Format Value Label
		2050	50% - Requires considerable assistance and frequent medical care
		2060	60% - Requires occasional assistance but is able to care for needs
		2070	70% - Cares for self: unable to carry on normal activity or active work
		2080	80% - Normal activity with effort: some symptoms of disease
		2090	90% - Able to carry on normal activity: minor symptoms of disease
		2100	100% - Normal, no complaints, no evidence of disease
		4010	10% - No play; does not get out of bed
		4020	20% - Often sleeping; play entirely limited to very passive activities
		4030	30% - In bed; needs assistance even for quiet play
		4040	40% - Mostly in bed; participates in quiet activities
		4050	50% - Can dress but lies around much of day; no active play; can take part in quiet play/activities
		4060	60% - Up and around, but minimal active play; keeps busy with quieter activities
		4070	70% - Both greater restriction of and less time spent in play activity
		4080	80% - Active, but tires more quickly
		4090	90% - Minor restrictions in physically strenuous activity
		4100	100% - Fully active, normal
FUNITYP	Character	1	mg/vol
		2	mg/24hrs.
		3	mg/dl=mg%
FUNUM	Numeric	0	Unknown
		1	At Discharge
		2	Disch-6 mths post tx
		3	7 mths-1 yr post tx
		4	1-2 yr post tx
		5	2-3 yr post tx
		6	Annually
FUPSTAT	Character	1	alive
		2	died
		3	lost to followup
FUREVTY	Character	1	Thrombolysis
		2	Balloon angioplasty .w/.wout thrombolysis
		3	Surgical repair or declotting
		4	New AV Fistula
		5	New PTFE graft
		6	Another permanent access
		7	Other
FUURINE	Character	1	> 200 ml/day
		2	< 200 ml/day
FUVATYP	Character	1	AV Fistula
		2	PTFE graft
		3	Bovine graft
		4	Other
GENDFMT	Character	1	MALE
		2	FEMALE
GFAIL	Character	01	Acute rejection
		02	Chronic rejection
		03	Hyperacute rejection, biopsy-proved
		04	accelerated humoral rejection
		05	Primary non-function
		06	Recurrence of original disease, biopsy
		07	Papillary necrosis

Format Name	Format Type	Starting Value for Format	Format Value Label
		08	Parenchymal abscess
		09	Parenchymal hemorrhage
		10	Local Wound Infection
		11	Arterial hemorrhage
		12	Venous hemorrhage
		13	Renal vein thrombosis
		14	Renal artery thrombosis
		15	Renal artery stenosis
		16	Inadequate graft vasculature
		17	Bladder leak
		18	Ureteral leak
		19	Ureteral obstruction
		20	Renal pelvic or cortical leak
		21A	Stop immunosuppression, infection
		21B	Stop IS, gastro-intestinal hemorrhage
		21C	Stop IS, visceral perforation
		21D	Stop immunosuppression, malignancy
		21E	Stop IS, skeletal complications
		21F	Stop IS, steroid psychosis
		21G	Stop immunosuppression, other
		22	Poor compliance with immunosuppression
		23	Other
		No	No Form
		unk	Unknown
GOOD5A	Character	1	Excellent
		2	Very good
		3	Good
		4	Fair
		5	Poor
GOOD5B	Character	1	Poor
		2	Fair
		3	Good
		4	Very Good
		5	Excellent
GOOD7A	Character	1	Very poor
		2	Poor
		3	Fair
		4	Good
		5	Very Good
		6	Excellent
		7	The Best
HAPLOTY	Numeric	1	0
		2	.5
		3	1
		4	1.5
		5	2
		6	N/A Living Donor - Not Typed
		7	N/A Unrelated Donor
		998	UNKNOWN
HBSAG	Character	1	positive
		2	negative
HCCDTYP	Character	B	Phys/supp In it
		C	Claim condition
		G	DRG

Format Name	Format Type	Starting Value for Format	Format Value Label
		H	HCPCS
		I	ICD9 diagnosis
		J	ICD8 diagnosis
		P	ICD9 procedure
		Q	ICD8 procedure
		R	Revenue Center
		S	Discharge status
		V	Claim value
HCFASAF	Character	D	Dialysis
		E	Durable Medical Equipment
		H	HHA
		I	Inpatient
		M	PMMIS inpat stay
		N	SNF
		O	Outpatient
		P	Phys/supplier
		Q	PMMIS qtrly dial
		S	Hospice
HCFASFI	Character	D	Dialysis
		H	HHA
		I	Inpatient
		M	PMMIS inpat stay
		N	SNF
		O	Outpatient
		Q	PMMIS qtrly dial
		S	Hospice
HCFASFP	Character	E	Durable Medical Equipment
		P	Phys/supplier value \$hcfasfe
HCFASVC	Character	0	Whole Blood or Packed Red Cells
		1	Medical Care
		2	Surgery
		3	Consultation
		4	Diagnostic Radiology
		5	Diagnostic Laboratory
		6	Therapeutic Radiology
		7	Anesthesia
		8	Assistance at Surgery
		9	Other Medical Service
		A	Used DME, Prosthetics, Orthotics
		B	High Risk Mammography
		C	Low Risk Mammography
		F	Ambulatory Surgical Center
		G	Immunosuppressive Drugs
		H	Hospice Services
		I	Purchase of DME (Installment Plan)
		L	Renal Supplier in the Home
		M	Monthly Capitation Paym,ent (Dialysis)
		N	Kidney Donor
		P	Lumpsum Purchase of DME
		R	Rental of DME
		T	Psychological Therapy
		U	Occupational Therapy
		V	Pneumococcal Vaccine
		W	Physical Therapy
		Y	Second Opinion/Elective Surg
		Z	Third Opinion/Elective Surg

Format Name	Format Type	Starting Value for Format	Format Value Label
HDPD	Character	1	HD
		2	PD
HEMOFMT	Character	'	Missing
		1	In Center
		2	Home Training
HISTDIAB	Numeric	3	At Home
		1	No
		2	Yes, 0-5 Years
		3	Yes, 6-10 Years
		4	Yes, >10 Years
HISTHYPE	Numeric	5	Yes, Duration Unknown
		998	Unknown
		1	No
		2	Yes, 0-5 Years
		3	Yes, 6-10 Years
HISTTCHX	Numeric	4	Yes, >10 Years
		5	Yes, Duration Unknown
		998	Unknown
		1	NIH/Extended
		2	Wash/Extended
HIVFMT	Character	3	Anti-Globulin
		4	FLow
		5	ELISA
		999	Other, specify
		1	Positive
HLA_TYMT	Numeric	2	Negative
		3	Unknown
		4	Cant disclose
		1	Serology
HMANMO	Character	2	DNA
		4	Other,Specify
		1	Althin/Drake 480
		10	Baxter 1550
		11	Baxter SPS450
		12	C2 & C2RX
		13	C2RX UFCM
		14	CS 3
		15	Braun HD Secura
		16	Gambro AK10
		17	Gambro Monitrol
		18	travenol mod-?
		19	baxter mod-?
		2	Althin/D 480UF
		20	cobe mod-?
		21	drake mod-?
		22	braun mod-?
		3	Althin/Drake1000
		4	Althin/Drake4521
		5	Althin/Drake4009
		6	Fresenius
		7	Baxter 350
8	Baxter 450		

Format Name	Format Type	Starting Value for Format	Format Value Label
	Numeric	9	Baxter 550
		1	Althin/Drake 480
		2	Althin/D 480UF
		3	Althin/Drake1000
		4	Althin/Drake4521
		5	Althin/Drake4009
		6	Fresenius
		7	Baxter 350
		8	Baxter 450
		9	Baxter 550
		10	Baxter 1550
		11	Baxter SPS450
		12	C2 & C2RX
		13	C2RX UFCM
		14	CS 3
		15	Braun HD Secura
		16	Gambro AK10
		17	Gambro Monitrol
		18	travenol mod-?
		19	baxter mod-?
		20	cobe mod-?
		21	drake mod-?
		22	braun mod-?
HOSPFMT	Character	'	Missing
		1	Yes
		2	No
		3	In Hosp.
		9	Unknown
HOWMEAS	Character	1	METRIC
		2	NONMETRIC
		3	NOT INDICATED
		4	NOT MEASURED
		5	METRIC (PROB)
		6	NONMETRIC (PROB)
HPOSFMT	Character	1	STANDING
		2	LYING
		3	NOT INDICATED
		4	NO HEIGHT GIVEN
		9	UNABLE TO DETERM
IMMOR	Numeric	1	Yes, same as previous validated report
		2	Yes, but different than previous validated report
		3	None given
IMPORT	Character	1	no effect
		2	small effect
		3	some effect
		4	important
		5	very important
		6	dont know
INSDEP	Numeric	1	No
		2	Yes, 0-5 Years
		3	Yes, 6-10 Years
		4	Yes, >10 Years
		998	Yes, Duration Unknown

Format Name	Format Type	Starting Value for Format	Format Value Label
INSLFMT	Character	1	active
		2	stopped
		3	never
INSUFMT	Character	'	Missing
		1	Active
		2	Stopped
INSUR	Character	0	Yes, primary
		1	Yes, secondary
		2	No, not a payment source
INTROMED	Numeric	1	Dopamine
		2	Dobutamine
		3	Epinephrine
		4	Levophed
		5	Neosynephrine
		6	Isoproterenol (Isuprel)
INTROUT	Numeric	999	Other, specify
		1	mcg/kg/min
		2	mcg/min
		3	mg/min
		4	units/hr
		5	mcg/hr
IRONADM	Character	1	Intravenous
		2	Intramuscular
KI_COD	Numeric	998	Unknown
		999	Other Specify
		3200	Graft Failure:Primary Failure
		3201	Graft Failure:Rejection
		3202	Graft Failure:Technical
		3203	Graft Failure:Graft Infection
		3204	Graft Failure:Recurrent Disease
		3299	Graft Failure:Other Specify
		3300	Infection:Bacterial Peritonitis
		3301	Infection:Bacterial Pneumonia
		3302	Infection:Bacterial Septicemia
		3303	Infection:Fungal
		3304	Infection:Mixed Other Specify
		3305	Infection:Opportunistic Other Specify
		3306	Infection:Urinary Tract
		3307	Infection:Viral
		3308	Infection:Aids
		3399	Infection:Other Specify
		3400	Cardiovascular:Myocardial Infarctoin
		3401	Cardiovascular:Arterial Embolism
		3499	Cardiovascular:Other Specify
		3500	Cerebrovascular:Stroke
		3599	Cerebrovascular:Other Specify
		3600	Hemorrhage:Gastrointestinal
		3601	Hemorrhage:Intraoperative
		3699	Hemorrhage:Other Specify
		3700	Malignancy:Metastatic Other Spcify
3701	Malignancy:Primary Other specify		
3702	Malignancy:Post-tx Lymphoproliferative		
3799	Malignancy:Other specify		

Format Name	Format Type	Starting Value for Format	Format Value Label
		3800	Trauma:Motor Vehicle
		3899	Trauma:Other Specify
		3900	Miscellaneous:Diabetes Mellitus
		3901	Miscellaneous:Intraoperative Other SP
		3902	Miscellaneous:Pancreatitis
		3903	Miscellaneous:Renal Failure
		3904	Miscellaneous:Respiratory Failure
		3905	Miscellaneous:Suicide
		3906	Non-Compliance
KI_C_GRF	Numeric	1	Hyperacute Rejection
		2	Acute rejection
		3	Primary Failure
		4	Graft Thrombosis
		5	Infection
		6	Surgical Complications
		7	Urological Complications
		8	Recurrent Disease
		999	Other Specify Cause
KI_DGN	Numeric	999	OTHER SPECIFY
		3000	IDIO/POST-INF CRESCENTIC GLOMERULONEPHRI
		3001	MEMBRANOUS GLOMERULONEPHRITIS
		3002	MESANGIO-CAPILLARY 1 GLOMERULONEPHRITIS
		3003	MESANGIO-CAPILLARY 2 GLOMERULONEPHRITIS
		3004	IGA NEPHROPATHY
		3005	ANTI-GBM
		3006	FOCAL GLOMERULAR SCLEROSIS (FOCAL SEGMENTAL - FSG)
		3007	CHRONIC PYELONEPHRITIS/REFLUX NEPHROPATH
		3008	POLYCYSTIC KIDNEYS
		3009	NEPHRITIS
		3010	NEPHROPHTHISIS
		3011	DIABETES - TYPE I INSULIN DEP/JUV ONSET
		3012	DIABETES - TYPE II NON-INSULIN DEP/ADULT
		3013	OXALATE NEPHROPATHY (INCLUDES HEREDITARY OXALOSIS)
		3014	CYSTINOSIS
		3015	FABRY'S DISEASE
		3016	AMYLOIDOSIS
		3017	GOUT
		3018	SYSTEMIC LUPUS ERYTHEMATOSUS
		3019	PROGRESSIVE SYSTEMIC SCLEROSIS
		3020	WILMS' TUMOR
		3021	RENAL CELL CARCINOMA
		3022	INCIDENTAL CARCINOMA
		3023	MYELOMA
		3024	HEMOLYTIC UREMIC SYNDROME
		3025	HYPOPLASIA/DYSPLASIA/DYSGENESIS/AGENESIS
		3026	CORTICAL NECROSIS
		3027	ACUTE TUBULAR NECROSIS
		3028	MEDULLARY CYSTIC DISEASE
		3029	SICKLE CELL ANEMIA
		3030	ACQUIRED OBSTRUCTIVE NEPHROPATHY
		3031	ALPORT'S SYNDROME
		3032	FAMILIAL NEPHROPATHY
		3033	GOODPASTURE'S SYNDROME
		3034	MALIGNANT HYPERTENSION
		3035	HENOCH-SCHOENLEIN PURPURA
		3036	PRUNE BELLY SYNDROME
		3037	RETRANSPLANT/GRAFT FAILURE
		3038	DIABETES - TYPE I NON-INSULIN DEP/JUV ON

Format Name	Format Type	Starting Value for Format	Format Value Label
		3039	DIABETES - TYPE II INSULIN DEP/ADULT ONS
		3040	HYPERTENSIVE NEPHROSCLEROSIS
		3041	CHRONIC GLOMERULONEPHRITIS UNSPECIFIED
		3042	MEMBRANOUS NEPHROPATHY
		3043	CHRONIC GLOMERULOSCLEROSIS UNSPECIFIED
		3044	ANALGESIC NEPHROPATHY
		3045	RADIATION NEPHRITIS
		3046	ANTIBIOTIC-INDUCED NEPHRITIS
		3047	CANCER CHEMOTHERAPY INDUCED NEPHRITIS
		3048	CALCINEURIN INHIBITOR NEPHROTOXICITY
		3049	HEROIN NEPHROTOXICITY
		3050	RENAL ARTERY THROMBOSIS
		3051	CHRONIC NEPHROSCLEROSIS-UNSPECIFIED
		3052	CONGENITAL OBSTRUCTIVE UROPATHY
		3053	SCLERODERMA
		3054	WEGENERS GRANULOMATOSIS
		3055	POLYARTERITIS
		3056	RHEUMATOID ARTHRITIS
		3057	SARCOIDOSIS
		3058	LYMPHOMA
		3059	NEPHROLITHIASIS
		3060	UROLITHIASIS
		3061	DYSPLASIA
		3062	PRE-BMTRANSPLANTATION TOTAL BODY IRRADIATION
		3063	DRUG RELATED INTERSTITIAL NEPHRITIS
		3064	THIN BASEMENT MEMBRANE DISEASE
		3065	HEREDITARY OXALOSIS (PEDIATRIC PATIENTS)
		3066	CHOLESTEROL EMBOLIZATION
		3067	FSG - FOCAL SEGMENTAL GLOMERULOSCLEROSIS
		3068	RAPID PROGRESSIVE GLOMERULONEPHRITIS (RPGN)
		3069	DIABETES MELLITUS - TYPE I
		3070	DIABETES MELLITUS - TYPE II
		3071	DIABETES MELLITUS - TYPE OTHER / UNKNOWN
KI_GLUMR	Numeric	1	0-5
		2	6-10
		3	11-15
		4	16-20
		5	20+
KI_PR_TY	Numeric	1	Transabdominal
		2	Flank (retroperitoneal)
		3	Laparoscopic Not Hand-assisted
		4	Laparoscopic Hand-assisted
		5	Laparoscopic Unknown (inactive)
KPTXTYP	Numeric	1	Simultaneous Kidney-Pancreas
		2	Cluster
		3	Multi-Organ Non-Cluster
KP_PROC	Numeric	101	LEFT KIDNEY
		102	RIGHT KIDNEY
		103	EN-BLOC
		104	DOUBLE
		105	HEMI-RENAL
		201	Pancreas Segment
		202	Whole Pancreas with Duodenum
		203	Whole Pancreas with Duodenal Patch
		204	Whole Pancreas
		301	Pancreas segment / Kidney Right

Format Name	Format Type	Starting Value for Format	Format Value Label
		302	Pancreas segment / Kidney Left
		303	Pancreas segment / En-bloc Kidney
		304	Pancreas Segment/Bilateral Sequential Kidney
		305	Pancreas segment / hemi-renal kidney
		306	Whole pancreas with duodenum / left kidney
		307	Whole pancreas with duodenum / right kidney
		308	Whole pancreas with duodenum / en-bloc kidneys
		309	Pancreas with duodenum/bilateral sequential kidney
		310	Whole pancreas with duodenum / hemi-renal kidney
		311	Whole pancreas with duodenal patch / left kidney
		312	Whole pancreas with duodenal patch / right kidney
		313	Whole pancreas with duodenal patch / en-bloc kidneys
		314	Pancreas with duodenal patch/bilateral sequential kidney
		315	Whole pancreas with duodenal patch / hemi-renal kidney
		316	Whole pancreas / left kidney
		317	Whole pancreas / right kidney
		318	Whole pancreas / en-bloc kidneys
		319	Whole pancreas/bilateral sequential kidney
		320	Whole pancreas / hemi-renal kidney
LBKG	Character	1	LBS
		2	KG
LCRES	Character	1	Not Performed
		2	Positive
		3	Negative
		4	Equivocal
LD_REL	Numeric	1	Parent
		2	Child
		3	ID Twin
		4	Full Sibling
		5	Half Sibling
		6	Other Relative
		7	Spouse
		9	Other Unrelated
		10	Living/Cadaveric Exchange
		998	Unknown
		999	Non-Biological, Other Unrelated Directed Donation: Specify
LHAP	Character	1	HLA IDENTICAL
		2	HAPLO IDENTICAL
		3	HAPLO DISSIM
		4	ID TWIN
		5	UNKNOWN
LIMIT3A	Character	1	Yes, Limited a lot
		2	Yes, Limited a little
		3	No, Not Limited at all
LIVFMT	Character	1	yes
		2	no
		3	nursing home, institution
		4	homeless
MALIGMUL	Numeric	1	Skin Melanoma
		2	Skin Non-Melanoma
		4	CNS Tumor
		8	Genitourinary
		16	Breast

Format Name	Format Type	Starting Value for Format	Format Value Label
		32	Thyroid
		64	Tongue/Throat/Larynx
		128	Lung
		256	Leukemia/Lymphoma
		512	Type Unknown
		1024	Other, specify
		2048	Liver
MANUFMT	Character	'	Missing
		1	Abbott
		2	Baxter/Travenol
		3	Delmed
		4	NMC
		8	Other
		9	Unknown
MARST	Character	'	Missing
		1	Single
		2	Married
		3	Widowed
		4	Divorced
		5	Separated
MARSTAT	Character	1	Single
		2	Married
		3	Widowed
		4	Divorced
		5	Separated
		6	Unknown
MEDCODE	Character	0	ICDA.8
		1	ICD9.CM
MEDIATP	Character	0	No Training
		1	Hemo
		2	IPD
		3	CAPD
		4	CCPD
		5	Other
		6	Unknown
MEDVA	Character	A	Non VA Facility
		V	Non-Medicare VA Facility
		W	Medicare VA Facility
		Y	Other
MED_COND	Numeric	1	In Intensive Care Unit
		2	Hospitalized Not In ICU
		3	Not Hospitalized
MEETH	Character	1	Hispanic/Mex
		2	Hispanic Other
		3	Non-Hispanic
		4	Unknown
MERACE	Character	Missing	
		1	American Indian/Alaskan Native
		2	Asian
		3	Black
		4	White

Format Name	Format Type	Starting Value for Format	Format Value Label
		5	Unknown
		6	Pacific Islander
		7	MidEast
		8	Indian SubCo
		9	Other/Multi-racial
MESET	Character	1	Hospital Inpatient
		2	Dialysis Facility/Center
		3	Home
		4	Unknown
		5	SNF
MESEX	Character	1	Male
		2	Female
		F	Female
		M	Male
		U	Unknown
METHBLD	Numeric	1	Insulin
		2	Oral medication
		4	Unknown, converted
		8	Diet
		16	No Treatment
METXST	Character	1	Functioning
		2	Non-Functioning
		3	Unknown
MEXAMRPT	Numeric	1	NO
		2	YES, MEDICAL EXAMINER CONSENTED
		3	YES, MEDICAL EXAMINER REFUSED CONSENT
		998	UNKNOWN
MISSEDX	Character	1	7 or more times
		2	4 to 6 times
		3	2 to 3 times
		4	once
		5	not at all
MLC	Character	A	One way
		B	Two way
		C	Not Done
MODFMT	Character	1	HEMODIALYSIS
		2	CAPD
		3	CCPD 6-7 DAYS/WK
		4	IPD <= 5 DAYS/WK
		5	1ST TX
		6	SUBSEQUENT TX
		9	UNABLE TO DETERM
MRTLSTAT	Numeric	1	Single
		2	Married
		3	Divorced
		4	Separated
		5	Life Partner
		998	Unknown
NEOFMT	Character	10	Lung
		11	esophagus/stom.

Format Name	Format Type	Starting Value for Format	Format Value Label
		12	breast
		13	pancreas
		14	prostate
		15	liver
		16	colon/rectal
		17	myeloma
		18	lymp./leukemia
		19	brain
		20	ovary/uterus
		21	melanoma/skin
		22	bladder
		23	oral/larynx
		24	kidney
		25	other/unknown
NEOSITE	Character	10	Lung
		11	Stomach/Esophagus
		12	Breast
		13	Pancreas
		14	Prostate
		15	Liver
		16	Colon/Rectal
		17	Myeloma
		18	Lymphoma/Leukemia
		19	Brain
		20	Ovary/Uterus
		21	Melanoma of skin
		22	Bladder
		23	Oral/Larynx
		24	Kidney
		25	Other/Unknown
NEPH	Character	1	one
		2	two
		3	No
NEPHREA	Character	1	Uncontrolled Hypertension
		2	Infection
		3	Reflux
		4	Routine Preparation for tx
		5	Other
NETFMT	Character	01	(CT) Net. of New England
		02	(NY) Net. of N.Y.
		03	(NJ) Trans-Atlantic R. C.
		04	(PA) ESRD Net. Org. #4
		05	(VA) Mid Atlantic R. C.
		06	(NC) Southeastern Kidney Council
		07	(FL) ESRD Net. of Florida
		08	(MS) Network 8
		09	(IN) Tri-state R. N.
		10	(IL) Renal Net. of Illinois
		11	(MN) Renal Net. of upper midwest
		12	(MO) ESRD net. #12
		13	(OK) ESRD net. #13
		14	(TX) Net. of Texas
		15	(CO) Inter-mountain ESRD net.
		16	(WA) Northwest Renal Net.
		17	(N-CA) Trans-pacific ESRD Net.
		18	(S-CA) Southern California Net.

Format Name	Format Type	Starting Value for Format	Format Value Label
		CA	(CA,HI) Networks 17 and 18
		NJ	Network 3, New Jersey Only
		OTHER	Unknown Network
NETFMTN	Character	##	Total
		01	(01 CT) Net. of New England
		02	(02 NY) Net. of N.Y.
		03	(03 NJ) Trans-Atlantic R. C.
		04	(04 PA) ESRD Net. Org. #4
		05	(05 VA) Mid Atlantic R. C.
		06	(06 NC) Southeastern Kidney Council
		07	(07 FL) ESRD Net. of Florida
		08	(08 MS) Network 8
		09	(09 IN) Tri-state R. N.
		10	(10 IL) Renal Net. of Illinois
		11	(11 MN) Renal Net. of upper midwest
		12	(12 MO) ESRD net. #12
		13	(13 OK) ESRD net. #13
		14	(14 TX) Net. of Texas
		15	(15 CO) Inter-mountain ESRD net.
		16	(16 WA) Northwest Renal Net.
		17	(17 N-CA) Trans-pacific ESRD Net.
		18	(18 S-CA) Southern California Net.
		CA	(CA,HI) Networks 17 and 18
		OTHER	Unknown Network
NEVRFMT	Character	1	Active
		2	former
		3	Never
NOTWORK	Numeric	1	Disability
		2	Demands of Treatment
		3	Insurance Conflict
		4	Inability to Find Work
		5	Patient Choice - Homemaker
		6	Patient Choice - Student Full Time/Part Time
		7	Patient Choice - Retired
		8	Patient Choice - Other
		996	Not Applicable - Hospitalized
		998	Unknown
NOYES	Character	0	No
		1	Yes
NUTFMT	Character	1	Obese/overweight
		2	Under-nourished/cachetic
		3	Well-nourished
OCCLEV	Character	'	Missing
		1	Clerical
		2	Professional
		3	Tradeperson
		4	Manual Labor
		5	Housewife
		6	Student
		7	Other
OCCUP	Character	1	Clerical
		2	Professional
		3	Tradeperson

Format Name	Format Type	Starting Value for Format	Format Value Label
		4	Manual Labor
		5	Student
		6	Other
		7	Not employed outside home
		8	Homemaker
		9	Disabled
ONCE3A	Character	1	Once
		2	More than once
		3	No, never
ORGRECO	Character	1	Ice
		2	Pump
		3	N/A
ORGTP	Character	KI	Kidney
		KP	Kidney Pancreas
		LI	Liver
		PA	Orig Registered for Pancreas
ORG_TYP	Character	HL	Heart/Lung
		HR	Heart
		IN	Intestine
		KI	Kidney
		KP	Kidney/Pancreas
		LI	Liver
		LU	Lung
		PA	Pancreas
		PI	Pancreas Islet
OTHCOMP	Numeric	1	Renal insufficiency requiring dialysis
		2	Ascites
		4	Line or IV complication
		8	Pneumothorax
		16	Pneumonia
		32	Wound Complication
		64	Brachial Nerve Injury
		128	Other, specify
OTHOTHER	Numeric	1	Photopheresis
		2	Plasmapheresis
		4	Total Lymphoid Irradiation (TLI)
PACGFF	Numeric	1	GRAFT/VASCULAR THROMBOSIS
		2	INFECTION
		3	BLEEDING
		4	ANASTOMOTIC LEAK
		5	PRIMARY NON-FUNCTION
		6	ACUTE REJECTION
		7	CHRONIC REJECTION
		8	HYPERACUTE REJECTION
		9	BIOPSY PROVEN ISLETITIS
		10	PANCREATITIS
		999	OTHER SPECIFY
PACGFT	Numeric	1	GRAFT/VASCULAR THROMBOSIS
		2	INFECTION
		3	BLEEDING
		4	ANASTOMOTIC LEAK
		5	PRIMARY NON-FUNCTION

Format Name	Format Type	Starting Value for Format	Format Value Label
		6	ACUTE REJECTION
		7	CHRONIC REJECTION
		8	HYPERACUTE REJECTION
		9	BIOPSY PROVEN ISLETITIS
		10	PANCREATITIS
		999	OTHER SPECIFY
PADUCTMG	Numeric	1	ENTERIC W/ROUX-EN-Y
		2	ENTERIC W/O ROUX-EN-Y
		3	CYSTOSTOMY
		4	DUCT INJECTION IMMEDIATE
		5	DUCT INJECTION DELAYED
		999	OTHER SPECIFY
PAGRFTPL	Numeric	1	INTRA-PERITONEAL
		2	RETRO-PERITONEAL
		3	PARTIAL INTRA/RETRO-PERITONEAL
PAIN6A	Character	1	None
		2	Very mild
		3	Mild
		4	Moderate
		5	Severe
		6	Very severe
PAREVASC	Numeric	1	Before
		2	Simultaneous
		3	After
		996	Not Applicable
PARTAB	Character	IN	Institutional Claims
		PS	Physician/Supplier Claims
PATNOTI	Character	1	Medically unfit
		2	Unsuitable due to age
		3	Psychologically unfit
		4	Patient declines information
		5	Patient has not been assessed
		6	Other
PATSTAT	Character	'	Missing
		1	Dead
		2	Hemodialysis
		3	Peritoneal dialysis
		4	Transplanted
		5	Recovered renal function
		6	Lost to follow-up/transferred
PAVENVAS	Numeric	1	SYSTEMIC SYSTEM (ILIAC:CAVA)
		2	PORTAL SYSTEM (PORTAL OR TRIBUTARIES)
		3	NA/Multi-organ cluster
PAYCAT	Character	HMO	Group Health Organization
		MPAB	Medicare Primary, both Part A and Part B
		MPO	Medicare Primary, Other
		MSP	Medicare as Secondary Payer
		OTH	Other/Unknown
PA_DGN	Numeric	999	OTHER SPECIFY
		5000	RETRANSPLANT/GRAFT FAILURE

Format Name	Format Type	Starting Value for Format	Format Value Label
		5001	DIABETES MELLITUS - TYPE I
		5002	DIABETES MELLITUS - TYPE II
		5003	DIABETES SEC TO CHRON PANCREATITIS W/O P
		5004	DIABETES SEC TO CF W/O PANCREATECTOMY
		5005	PANCREATIC CANCER
		5006	BILE DUCT CANCER
		5007	OTHER CANCERS
		5008	PANCREATECTOMY PRIOR TO PANCREAS TX
		5009	DIABETES MELLITUS - TYPE OTHER / UNKNOWN
PDISD2W	Character	1	Diabetes
		2	Hypertension
		3	Primary glomerulonephritis
		4	Other
PDISD3W	Character	1	Diabetes
		2	Hypertension
		3	Primary glomerulonephritis
		4	Polycystic kidney disease
		5	Other
PDTYPE	Character	1	CAPD only
		2	Cycler (full when off cycler)
		3	Cycler (empty when off cycler)
		4	Combined
PEPULCER	Numeric	1	No
		2	Yes, active within the last year
		3	Yes, not active within the last year
		4	Yes, activity unknown
		998	Unknown
PERILOC	Character	'	Missing
		1	Home
		2	Home Training
		3	In-center
PERITYP	Character	'	Missing
		1	CAPD
		2	CCPD
		3	IPD
PHYSCAP	Numeric	1	No Limitations
		2	Limited Mobility
		3	Wheelchair bound or more limited
		996	Not Applicable (< 1 year old or hospitalized)
		998	Unknown
PLACESV	Character	11	Office
		12	Home
		21	Inpatient Hospital
		22	Outpatient Hospital
		23	Emergence Room - Hospital
		24	Ambulatory Surgical Center
		25	Birthing Center
		26	Military Treatment Facility
		31	Skilled Nursing Facility
		32	Nursing Facility
		33	Custodial Care Center
		34	Hospice

Format Name	Format Type	Starting Value for Format	Format Value Label
		41	Ambulance - Land
		42	Ambulance - Air or Water
		51	Inpatient Psychiatric Facility
		52	Psych Facil Partial Hospitalization
		53	Community Mental Health Center
		54	Intermed Care Facility/Mentally Retarded
		55	Residential Substance Abuse Facility
		56	Psychiatric Residential Center
		61	Comprehensive Inpatient Rehab Facility
		62	Comprehensive Outpatient Rehab Facility
		65	End Stage Renal Disease Treatment
		71	State/Local Public Health Clinic
		81	Independent Laboratory
		99	Other Unlisted Facility
PMBLD	Character	1	O
		2	A
		3	B
		4	AB
PMETHN	Character	1	Hispanic Origin
		2	Not of Hispanic Origin
		3	Unknown
		U	Unknown
POSFMT	Character	'	Missing
		1	Positive
		2	Negative
PRAMEAS	Numeric	1	IgG
		2	IgM
		3	Both IgG and IgM
PRATARGT	Numeric	1	Cells
		2	Purified HLA antigens, pooled
		3	Purified HLA antigens from individual phenotypes
		4	Purified single HLA antigens
PRATECH	Numeric	1	Cytotoxicity testing - extended incubation
		2	Cytotoxicity testing - wash
		3	Cytotoxicity testing - wash and extended incubation
		4	Cytotoxicity testing - AHG
		5	Flow cytometry with cell targets
		6	Flow cytometry with bead targets
		7	ELISA
		8	Micro array
		999	Other, specify
PRIOR	Character	1	0-5 hrs prior to harvest
		2	5 or more hrs prior to harvest
PRIPAY	Numeric	1	Private insurance
		2	Public insurance - Medicaid
		3	Public insurance - Medicare FFS (Fee for Service)
		4	Public insurance - Medicare & Choice
		5	Public insurance - CHIP (Children's Health Insurance Program)
		6	Public insurance - Department of VA
		7	Public insurance - Other government
		8	Self
		9	Donation

Format Name	Format Type	Starting Value for Format	Format Value Label
		10	Free Care
		11	Pending
		12	Foreign Government Specify
		13	Public insurance - Medicare Unspecified
		14	US/State Govt Agency
		15	Unknown
PROBLEM	Character	1	No problem
		2	A little problem
		3	Somewhat of a problem
		4	Very much a problem
		5	Severe problem
PROVSP	Character	00	Carrier Wide
		01	General Practice
		02	General Surgery
		03	Allergy/Immunology
		04	Otolaryngology
		05	Anesthesiology
		06	Cardiology
		07	Dermatology
		08	Family Practice
		09	Gynecology (DOs to 10/91)
		10	Gastroenterology
		11	Internal Medicine
		12	Osteopathic Manipulative Therapy
		13	Neurology
		14	Neurosurgery
		15	Obstetrics (DOs to 10/91)
		16	OB-Gynecology
		17	Ophth-Oto-Rhino-Laryn (DOs to 10/91)
		18	Ophthalmology
		19	Oral Surgery (Dentists Only)
		20	Orthopedic Surgery
		21	Path Anat/Clin Path (DOs to 10/91)
		22	Pathology
		23	Periph Vasc Disease (DOs to 10/91)
		24	Plastic and Reconstructive Surg
		25	Phys Med and Rehab
		26	Psychiatry
		27	Psych/Neurology (DOs to 10/91)
		28	Colorectal Surgery
		29	Pulmonary Disease
		30	Diagnostic Radiology
		31	Roentgenology (DOs to 10/91)
		32	Radiation Therapy (DOs to 10/91)
		33	Thoracic Surgery
		34	Urology
		35	Chiropractic
		36	Nuclear Medicine
		37	Pediatric Medicine
		38	Geriatric Medicine
		39	Nephrology
		40	Hand Surgery
		41	Optometrist
		42	Certified Nurse Midwife
		43	CRNA, Anesthesia Asst.
		44	Infectious Disease
		45	Mammography Screening Center
		46	Endocrinology

Format Name	Format Type	Starting Value for Format	Format Value Label
		48	Podiatry
		49	Ambulatory Surg. Center
		50	Nurse Practitioner
		51	Med Supply Co. w/ Orthotist
		52	Med Supply Co. w/ Prosthetist
		53	Med Supply Co. w/ Prosth-Orthot
		54	Other Med SUPply Co.
		55	Individual Cert Orthotist
		56	Individual Cert Prosthetist
		57	Individual Cert Prosth-Orthot
		58	Inds not above (10/93 Med suppl w/ Pharm)
		59	Ambulance Service Supplier
		60	Publ Health or Welfare Agencies
		61	Volun Health or Charitable Agencies
		62	Psychologist
		63	Portable X-Ray Supplier
		64	Audiologist
		65	Physical Therapist
		66	Rheumatology
		67	Occupational Therapist
		68	Clinical Psychologist
		69	Clinical Laboratory
		70	Multispecialty Clinic/Group Practice
		71	Diagnostic X-Ray (no use after 5/92)
		72	Diagnostic Lab (no use after 5/92)
		73	Physiotherapist (no use after 5/92)
		74	Occupat Therapist (no use after 5/92)
		75	Other Med Care (no use after 5/92)
		76	Peripheral Vascular Disease
		77	Vascular Surgery
		78	Cardiac Surgery
		79	Addiction Medicine
		80	Clinical Social Worker
		81	Critical Care (Intensivists)
		82	Hematology
		83	Hematology/Oncology
		84	Preventative Medicine
		85	Maxillofacial Surgery
		86	Neuropsychiatry
		87	All other Suppliers (Drug/Department Stores)
		88	Unknown Provider/Supplier Specialty
		89	Cert Clinical nurse Specialist
		90	Medical Oncology
		91	Surgical Oncology
		92	Radiation Oncology
		93	Emergency Medicine
		94	Interventional Radiology
		95	Indep Physiological Lab
		96	Optician (on 10/93/Unknown Phys Spec before)
		97	Physician Assistant
		99	Unknown Supplier/Provider
		A0	Hospital (Eff 10/93)
		A1	SNF (Eff 10/93)
		A2	Intermed Care Nursing Facility (Eff 10/93)
		A3	Other Nursing Facility (Eff 10/93)
		A4	HHA (Eff 10/93)
		A5	Pharmacy (Eff 10/93)
		A6	Med Supply Co. w/ Respir Therapist (Eff 10/93)
		A7	Department Store (Eff 10/93)
		A8	Grocery Store (Eff 10/93)

Format Name	Format Type	Starting Value for Format	Format Value Label
PRPAYR	Character	0	
		1	Pos WORKERS COMP
		2	Pos. BLACK LUNG
		3	Pos. DVA
		A	WORKING W EGHP
		B	ESRD EGHP--MSP
		C	CONDITIONAL PAYM
		D	AUTOMOBILE INS
		E	WORKERS COMP
		F	PHS / OTHER FED
		G	WORKING DISABLED
		H	BLACK LUNG
		I	DVA
		J	LIABILITY INS
		M	OR: EGHP
		N	OR: NON-EGHP
		X	OR: NO MSP COST
	Y		
	Z		
PRV_PREG	Numeric	0	NO PREVIOUS PREGNANCY
		1	1 PREVIOUS PREGNANCY
		2	2 PREVIOUS PREGNANCIES
		3	3 PREVIOUS PREGNANCIES
		4	4 PREVIOUS PREGNANCIES
		5	5 PREVIOUS PREGNANCIES
		6	MORE THAN 5 PREVIOUS PREGNANCIES
		996	NOT APPLICABLE: < 10 years old
		998	UNKNOWN
PSTAT	Character	A	Alive
		D	Dead
		L	Lost
		R	Retransplanted
PXSTII	Character	A	Living
		D	Dead
		L	Lost to Follow-up
		R	Retransplated
P_S_PAY	Numeric	1	Medicare
		2	Medicaid
		3	US/State Govt Agency
		4	Private Insurance
		5	HMO/PPO
		6	Self
		7	Donation
		8	Free Care
		9	Dept Veterans Affairs
		10	Pending
		11	Foreign Govt, Specify
	2	Nephrologist	
	9	Unknown	
QOLHDPD	Character	1	Hemodialysis
		2	Peritoneal dialysis
		3	Peritoneal and hemodialysis are same

Format Name	Format Type	Starting Value for Format	Format Value Label
		4	Dont know
QUAL10A	Character	00 10	Poor Quality High Quality
RACEDMS	Character	1 2 3 4 5	White Black Asian NAmer other
RACEFMT	Character	# 1 2 3 4 5 9 T	All Native Amer. Asian Black White Unknown Other All
RANGE	Numeric	0 1 2	< 6 months 6-12 months 12 months respectively
READMIT	Numeric	1 2 4 8 16 32	Wound Infection Fever Bowel Obstruction Pleural Effusion Vascular Complications Other, specify
REASFMT	Character	1 2 3	BORN < 1/1/71 DIED < 2/1/90 TREATED <30 DAYS
RECONIC	Character	1 2	Stayed on ice Put on pump
RECONPM	Character	1 2	Stayed on pump Put on ice
REHAB	Character	1 2 3 4 5 6 7 8 **OTHER**	Complete disability: hosp. or bedridden Unable to work or attend school Works/school part-time (<50%) Works/school part-time (>50%) Works/school FT, below pre-illness level Works/school FT at pre-illness level Able to work/school, chooses not to Able to work but cannot find work Unknown
REMCD	Character	10 11 12 13 14 15 16 17 18	Listed in Error Listed for AddL Unacceptable Antigens Only Condition Improved, Tx Not Needed Condition Deteriorated, Too sick for Tx Transplanted at Another Center Living Donor Tx, Removed by Tx Center Removed in Error Changed to KP (by system) Cadaveric Emergency Tx

Format Name	Format Type	Starting Value for Format	Format Value Label
		19	Cadaveric Multi-Organ Tx
		20	Program inactive for 2+ years
		21	Patient died during TX procedure
		4	Cadaveric Tx, Removed by Tx Center
		5	Medically Unsuitable (code removed 4/95)
		6	Refused Transplant
		7	Transferred to Another Center
		8	Died
		9	Other
	Numeric	4	Cadaveric Tx, Removed by Tx Center
		5	Medically Unsuitable (code removed 4/95)
		6	Refused Transplant
		7	Transferred to Another Center
		8	Died
		9	Other
		10	Listed in Error
		11	Listed for AddL Unacceptable Antigens Only
		12	Condition Improved, Tx Not Needed
		13	Condition Deteriorated, Too sick for Tx
		14	Transplanted at Another Center
		15	Living Donor Tx, Removed by Tx Center
		16	Removed in Error
		17	Changed to KP (by system)
		18	Cadaveric Emergency Tx
		19	Cadaveric Multi-Organ Tx
		20	Program inactive for 2+ years
		21	Patient died during TX procedure
REU_TEC	Character	1	Manual
		2	Automated
		3	Both Man and Auto
REVTYPE	Character	01	Med. declotting
		02	B.Angio.w/throm
		03	B.A. wout throm
		04	Surg declotting
		05	SRev of ExistAcc
		06	New AV Fistula
		07	New PTFE graft
		08	New Other P.A.
		09	Other
RFIFMT	Character	0	Pre-1981 record
		1	Post-1981 record
RXCATDT	Character	1	Center hemo
		2	Center self hemo
		3	Home hemo
		4	Hemo Training
		5	CAPD
		6	CAPD Training
		7	CCPD
		8	CCPD Training
		9	Other peri
		A	Uncertain
		D	Death
		T	Transplant
		X	Lost to followup
		Z	Recovered Function

Format Name	Format Type	Starting Value for Format	Format Value Label
RXCATGP	Character	1	Center hemo
		2	Center self hemo
		3	Home hemo
		5	CAPD
		7	CCPD
		9	Other peri
		A	Uncertain
		D	Death
		T	Transplant
		X	Lost to followup
		Z	Recoverd Function
RXCATIC	Character	1	Center hemo
		2	Center self hemo
		3	Home hemo
		4	Hemo Training
		5	CAPD
		6	CAPD Training
		7	CCPD
		8	CCPD Training
		9	Other peri
		A	Uncertain
		T	Transplant
RXGROUP	Character	1	Death
		2	Transplant
		3	Unknown
		4	Center hemo
		5	Home hemo
		6	Center self hemo
		7	CAPD
		8	CCPD
		9	Other peri
		A	Unknown dialysis
		B	Unstable dialysis
		X	Lost to followup
		RXSTOP	Character
B	Yes, following transplant failure		
C	Yes, following chronic failure to thrive		
D	Yes, following acute medical complication		
E	Yes, other		
N	No		
U	Unknown		
Y	Yes, Dialysis stop reason unknown		
SCHOFMT	Character	1	MOSTLY FULL TIME
		2	MOSTLY PART TIME
		3	MOSTLY HOMEBOUND
		4	NONE/NO DIPLOMA
		5	NONE/HAS DIPLOMA
		9	NO INFO AVAIL.
SCREEN	Character	C	Cannot Disclose
		I	Indeterminate
		N	Negative
		ND	Not Done
		P	Positive
		U	Unknown

Format Name	Format Type	Starting Value for Format	Format Value Label
SECNDPAY	Numeric	1	Private insurance
		2	Public insurance - Medicaid
		3	Public insurance - Medicare FFS (Fee for Service)
		4	Public insurance - Medicare & Choice
		5	Public insurance - CHIP (Children's Health Insurance Program)
		6	Public insurance - Other government
		7	Self
		8	Donation
		9	Free Care
		10	None
		11	Public insurance - Medicare Unspecified
		12	US/State Govt Agency
SELECT	Character	1	I took the lead in selecting my treatmnt
		2	The medical team took the lead in select
		3	The medical team and I contributed equal
SEXFMT	Character	#	All
		1	Male
		2	Female
		T	All
		OTHER	Unknown
SIDE	Character	1	Right
		2	Left
SMOKE	Character	1	Active (still smoking)
		2	Former, stopped <1 yr ago
		3	Former, stopped >1 yr ago
		4	Smoker, current status unknown
		5	Non-smoker
SMOKFMT	Character	'	Missing
		1	Active Smoker
		2	Former Smoker
		3	Smoker, curr status unknown.
		4	Non-Smoker
STATE	Character	AK	ALASKA
		AL	ALABAMA
		AR	ARKANSAS
		AZ	ARIZONA
		CA	CALIFORNIA
		CO	COLORADO
		CT	CONNECTICUT
		DC	DIST. OF COLUMBIA
		DE	DELAWARE
		FL	FLORIDA
		GA	GEORGIA
		GU	GUAM
		HI	HAWAII
		IA	IOWA
		ID	IDAHO
		IL	ILLINOIS
		IN	INDIANA
		KS	KANSAS
		KY	KENTUCKY
LA	LOUISIANA		
MA	MASSACHUSETTS		
MD	MARYLAND		

Format Name	Format Type	Starting Value for Format	Format Value Label
		ME	MAINE
		MI	MICHIGAN
		MN	MINNESOTA
		MO	MISSOURI
		MS	MISSISSIPPI
		MT	MONTANA
		NA	FOREIGN COUNTRY
		NC	NORTH CAROLINA
		ND	NORTH DAKOTA
		NE	NEBRASKA
		NH	NEW HAMPSHIRE
		NJ	NEW JERSEY
		NM	NEW MEXICO
		NV	NEVADA
		NY	NEW YORK
		OH	OHIO
		OK	OKLAHOMA
		OR	OREGON
		PA	PENNSYLVANIA
		PR	PUERTO RICO
		RI	RHODE ISLAND
		SC	SOUTH CAROLINA
		SD	SOUTH DAKOTA
		TN	TENNESSEE
		TX	TEXAS
		UT	UTAH
		VA	VIRGINIA
		VI	VIRGIN ISLANDS
		VT	VERMONT
		WA	WASHINGTON
		WI	WISCONSIN
		WV	WEST VIRGINIA
		WY	WYOMING
		ZZ	UNKNOWN
STATFIP	Character	01	Alabama
		02	Alaska
		03	American Samoa
		04	Arizona
		05	Arkansas
		06	California
		08	Colorado
		09	Connecticut
		10	Delaware
		11	District of Columbia
		12	Florida
		13	Georgia
		15	Hawaii
		16	Idaho
		17	Illinois
		18	Indiana
		19	Iowa
		20	Kansas
		21	Kentucky
		22	Louisiana
		23	Maine
		24	Maryland
		25	Massachusetts
		26	Michigan
		27	Minnesota

Format Name	Format Type	Starting Value for Format	Format Value Label
		28	Mississippi
		29	Missouri
		30	Montana
		31	Nebraska
		32	Nevada
		33	New Hampshire
		34	New Jersey
		35	New Mexico
		36	New York
		37	North Carolina
		38	North Dakota
		39	Ohio
		40	Oklahoma
		41	Oregon
		42	Pennsylvania
		44	Rhode Island
		45	South Carolina
		46	South Dakota
		47	Tennessee
		48	Texas
		49	Utah
		50	Vermont
		51	Virginia
		53	Washington
		54	West Virginia
		55	Wisconsin
		56	Wyoming
		60	American Samoa
		61	Panama Canal Zone
		62	Canton/Enderbury Is.
		64	Micronesia
		66	Guam
		67	Johnston Atoll
		68	Marshall Islands
		69	North Mariana Islands
		70	Palua
		71	Midway Island
		72	Puerto Rico
		74	Minor Islands
		75	Pacific Trust Territories
		76	US Carribean Is.
		77	US misc Pacific Is.
		78	Virgin Islands
		79	Wake Island
		81	Baker Island
		84	Howland Island
		86	Jarvis Island
		89	Kingman Reef
		95	Palmyra Atoll
		98	Foreign (SSA code)
		FR	Foreign (SSA code)
		OC	Oceania (SSA code)
		UP	US Poss. (SSA code)
		OTHER	Unknown State
STERFMT	Character	1	YES, DAILY
		2	YES, ALTERN. DAY
		3	NO
		9	NO INFO AVAIL.

Format Name	Format Type	Starting Value for Format	Format Value Label	
SURGINCI	Numeric	1	Midline	
		2	Iliac Fossa PA right/KI left	
		3	Iliac Fossa PA left/KI right	
		4	Right	
		5	Left	
		999	Other	
SUSPCT	Character	1	yes	
		2	no	
		3	suspected	
		03	Tenckhoff, curled	
		04	Tenckhoff, cur/with permanent bend tunnel segment	
		05	Toronto Western	
		06	Toronto West./with permanent bend tunnel segment	
		07	Missouri, straight with permanent bend tunnel segment	
		08	Missouri, curled with permanent bend tunnel segment	
		09	Lifecath, Column-Disc with permanent bend tunnel segment	
88	Other			
TANFMT	Character	1	STAGE 1	
		2	STAGE 2	
		3	STAGE 3	
		4	STAGE 4	
		5	STAGE 5	
TECFMT	Character	'	Missing	
		01	Standard spike	
		02	Standard luer lock	
		03	Standard spike assist	
		04	Sterile connecting device	
		05	O-set (no antiseptic)	
		06	O-set (with antiseptic)	
		07	Y-set (no antiseptic, disposable)	
		08	Y-set (with antiseptic)	
		09	Y-set (UV)	
		10	Standard ultraviolet device (UV)	
		88	Other	
		Numeric	1	Standard
			2	Y-set
3	UV			
4	Other			
5	O-set			
TERMCOD	Character	1	Invol. Withdrawal	
		2	Fail meet Hlth/Sfty Stan	
		3	Fail meet Min Util. Rate	
		4	Fail meet Need Reqrments	
		5	Closed	
		6	Other	
TGCELSRC	Numeric	1	Peripheral Blood	
		2	Lymph Nodes	
		4	Spleen	
		8	Thymocytes	
		16	Cell lines/clonal cells	
		32	Solid Matrix	
64	Multiple			
TIMBF1A	Character	1	More than 1 year prior to starting dialy	

Format Name	Format Type	Starting Value for Format	Format Value Label
		2	Between 4 months and 1 year before start
		3	Between 2 months and 3 months
		4	Between 1 and 4 weeks before starting di
		5	Less than a week before dial/not at all
		6	Not sure
TIMBF2A	Character	1	Yes, between 1 and 2 years prior to dial
		2	Between 4 months and 1 year before start
		3	Between 1 month and 3 months
		4	Less than 1 month
		5	Not sure
TIMBF3A	Character	1	More than 1 year prior to starting dial
		2	Between 4 months and 1 year before start
		3	Between 1 month and 3 months
		4	Less than 1 month
		5	Did not ... (N/A)
		6	Not sure
TIMBF4A	Character	1	More than 6 months
		2	3-6 months
		3	1-2 months
		4	Less than 1 month
		5	I did not ... (N/A)
		6	Not sure
TIME5A	Character	1	All of the time
		2	Most of the time
		3	Some of the time
		4	A little of the time
		5	None of the time
TIME6A	Character	1	All of the Time
		2	Most of the Time
		3	A Good Bit of the Time
		4	Some of the Time
		5	A Little of the Time
		6	None of the Time
TIMEZONE	Numeric	1	Eastern
		2	Central
		3	Mountain
		4	Pacific
		5	Alaska
		6	Hawaii
TRAINSET	Numeric	3	Home
		6	InCenter
TRANS	Character	1	Drive myself
		2	Walk
		3	By car driven by someone else
		4	The dialysis unit/hospital sends trans.
		5	By taxi
		6	By bus or subway/train
		7	By ambulance
TRANSFUS	Numeric	0	None
		1	1-5
		2	6-10

Format Name	Format Type	Starting Value for Format	Format Value Label
		3	Greater than 10
		998	Unknown
TREATBK	Numeric	1	Yes, Immunosuppression reduction
		2	Yes, Cidofavir
		4	Yes, IVIG
		8	Yes, Type Unknown
		16	Yes, Other, Specify
TRIND	Character	A	Not Applicable
		D	Not Done
		M	Missing
		U	Unknown
TRUE5A	Character	1	Definitely True
		2	Mostly True
		3	Dont Know
		4	Mostly False
		5	Definitely False
TRUE5B	Character	1	Definitely True
		2	Mostly True
		3	Neither True or False
		4	Mostly False
		5	Definitely False
TSTAT	Character	1	1st tx
		2	2nd tx
		3	3rd tx
		4	4th or more
TUMOR_KI	Numeric	1	Oncocytoma
		2	Renal Cell Carcinoma
		3	Carcinoid
		4	Adenoma
		5	Transitional Cell Carcinoma
		999	Other Primary Kidney Tumor, Specify.
TXSRC	Character	H	Record is HCFA Transplant
		M	Record from Medical Evidence 2728
		S	ESRD Networks
		U	Record is UNOS Transplant
TYPDIAB	Character	1	IDDM, Juvenile, Type I
		2	NIDDM, Adult, Type II
TYPREUS	Character	'	Missing
		1	Manual
		2	Automated
		3	Both
T_F	Character	0	False
		1	True
	Numeric	0	False
		1	True
URINEPR	Character	1	Positive
		2	Negative
		3	Not Done
		4	Unknown

Format Name	Format Type	Starting Value for Format	Format Value Label
URINEPRO	Numeric	1	Positive
		2	Negative
		3	Not Done
		4	Unknown
URRFMT	Character	G1	URR < 60%
		G2	URR 60 - <65%
		G3	URR 65 - <70%
		G4	URR 70 - <75%
		G5	URR 75+ %
VASCCOMP	Numeric	1	Renal Vein
		2	Renal Artery
		4	Aorta
		8	Vena Cava
		16	Pulmonary Embolus
		32	Deep Vein Thrombosis
		64	Other, specify
VASCFMT	Character	1	fistula
		2	goretex graft
		3	bovine graft
		4	temporary line
		5	permanent subclavian cathetar
		6	other
VASTYPE	Character	1	AV Fistula
		2	PTFE graft
		3	Bovine graft
		4	Perm Catheter
		5	Temp IJ cath
		6	T.Subc. cath
		7	T.Femoral Cath
		8	Other
VISITS	Character	1	5 or more visits
		2	2-4 visits
		3	1 visit
		4	No visits
		5	Not sure
WADJFMT	Character	1	YES
		2	NO
		3	NOT INDICATED
		4	NO WEIGHT GIVEN
		9	UNABLE TO DETERM
WANTWRK	Character	1	Full time
		2	Part time
		3	Not at all
		4	Not sure
WATRSRC	Character	'	Missing
		1	Public Water System
WAT_SRC	Character	1	Public Water System
		2	Well Water System

Format Name	Format Type	Starting Value for Format	Format Value Label
WHHLP2A	Character	1	Spouse or partner
		2	Any other relative (unpaid)
		3	A friend or volunteer (unpaid)
		4	A paid person
		5	A medical professional
WHOHELP	Character	1	Family member
		2	Unit personnel
		3	Other
WKGRPHLA	Numeric	95	Positive
		96	Negative
		98	Confirmed Blank
		99	Not Tested
		998	Unknown
WORK8A	Character	1	Working full-time
		2	Working part-time
		3	Unemployed, laid off, or looking for wrk
		4	Retired
		5	Disabled
		6	In school
		7	Keeping house
		8	None of the above
WORKINC	Numeric	1	Working Full Time
		2	Working Part Time due to Demands of Treatment
		3	Working Part Time due to Disability
		4	Working Part Time due to Insurance Conflict
		5	Working Part Time due to Inability to Find Full Time Work
		6	Working Part Time due to Patient Choice
		7	Working Part Time Reason Unknown
		998	Working, Part Time vs. Full Time Unknown
X_MATCH	Numeric	0	Indeterminate
		1	Negative
		2	Positive
		3	Weak Positive
YESNO	Character	1	Yes
		2	No
YESNON	Character	1	Yes
		2	No
		3	Not sure
YN12FMT	Character	'	Missing
		1	Yes
		2	No
YNCFMT	Character	C	can not disclose
		N	no
		Y	yes
YNFMT	Character	'	Missing
		1	Yes
		2	No
YNP	Character	N	No
		P	Partial

Format Name	Format Type	Starting Value for Format	Format Value Label
		Y	Yes
YNSFMT	Character	'	Missing
		1	Yes
		2	No
		3	Suspected
YNUDET	Character	1	Yes
		2	No
		3	Unable to determine
YNUFMT	Character	'	Missing
		1	Yes
		2	No
		3	Unknown
		9	Unknown
		N	No
		U	Unknown
		Y	Yes
		OTHER	Unknown
YNUNK	Character	N	No
		U	Unknown
		Y	Yes
YNYNFMT	Character	'	Missing
		N	No
		Y	Yes

Appendix F

Data Forms



CMS, CDC, and UNOS ESRD Data Forms

◆ CMS ESRD Forms

Previous CMS 2728-Chronic Renal Disease Medical Evidence Report
CMS 2728-ESRD Medical Evidence Report Medicare Entitlement &/or Patient Registration
CMS 2746-ESRD Death Notification
CMS 2744-ESRD Facility Survey
UB92-CMS 1450-Uniform Bill
CMS 1500-Health Insurance Claim Form

◆ CDC National Surveillance of Dialysis-Associated Diseases Form

1993
1994
1995
1997
1999
2000
2001
2002

Note: The 1996 CDC form is not available. The CDC did not conduct a study in 1998 and the last study was in 2002. Data for the CDC variables are missing after this date.

◆ UNOS Transplant Forms

Transplant Candidate Registration Form
Kidney Transplant Recipient Registration Form
Immunosuppression Treatment Form
Cadaver Donor Registration Form
Cadaver Donor Referral Form
Living Donor Registration
Living Donor Followup
Recipient Histocompatibility Form
Donor Histocompatibility Form
Kidney Transplant Recipient Followup Form
Immunosuppression Treatment Followup Form

Special Study Data Forms

- ◆ Case Mix/Adequacy Study
Confidential Report
- ◆ CAPD Peritonitis Study
Confidential Report
- ◆ Data Validation Study
Transplant Information
Patient History
Dialysis Treatments
Hospital Stay Information
- ◆ EPO and Quality of Life Study
Health Status Measurement
Social Worker Questionnaire
Physician Questionnaire
Six-month Followup
- ◆ Pediatric ESRD Growth & Development Study
Patient History
- ◆ Renal Biopsy Study
Prognosis After ESRD

USRDS Dialysis Morbidity and Mortality Study Forms

- ◆ DMMS Wave I Special Study Data Forms
 - Instructions: USRDS Dialysis Morbidity & Mortality Study*
 - Dialysis Facility/Unit Questionnaire*
 - Vascular Access Questionnaire*
 - Vascular Access in Incident Patients*
 - USRDS DMMS-Core Confidential Report*
 - Anemia Questionnaire*
 - USRDS DMMS-Anemia Confidential Report*
 - Nutrition Questionnaire*
 - USRDS DMMS-Nutrition Confidential Report*
 - Patient Tracking form*

- ◆ DMMS Wave II Special Study Data Forms
 - Cover Sheet and Patient Consent form*
 - Instruction Manual*
 - Dialysis Facility/Unit Questionnaire Instructions*
 - Dialysis Patient Questionnaire*
 - Medical Questionnaire Confidential Report*
 - USRDS DMMS Prospective Followup Study-Instructions*
 - Cover Sheet for Medical Update Questionnaire*
 - Medical Update and Questionnaire*
 - Cover Sheet and Patient Consent form*
 - Dialysis Patient Questionnaire*
 - Patient Tracking and Identification form*

- ◆ DMMS Wave III-IV Special Study Data Forms
 - Instruction Manual for Clinical Questionnaire*
 - Clinical Questionnaire*
 - Confidential Report: Clinical Questionnaire*
 - Patient Tracking*

- ◆ DMMS FACS Special Study Data Forms
 - Dialysis Facility/Unit Questionnaire*

Appendix G

Glossary



Some definitions from *Dorland's Illustrated Medical Dictionary* or the *On-line Medical Dictionary*.

ARF Acute renal failure

Sudden decrease in glomerular filtration rate accompanied by azotemia. ARF may or may not require renal replacement therapy; ARF patients who require dialysis may or may not recover renal function with short-term dialysis.

CAPD Continuous ambulatory peritoneal dialysis

A method of dialysis in which dialysate is always present in the abdomen and is usually exchanged every two hours. Normal treatment length is 48 to 72 hours.

CCPD Continuous cycler-assisted peritoneal dialysis

A method of dialysis in which the patient is connected to a cycler machine, usually at bedtime, and dialysate in the patient's abdomen is replaced with fresh dialysate 3 to 5 times during the night.

CDC Centers for Disease Control & Prevention

Recognized as the lead federal agency for protecting the health and safety of people at home and abroad, the CDC serves as the national focus for disease prevention by developing and applying programs designed to improve the health of the people of the United States.

CKD Chronic Kidney Disease

A condition of deteriorating kidney function classified by five stages that define increasing evidence of kidney damage shown by microalbuminuria and estimated glomerular filtration rate.

CMS Centers for Medicare & Medicaid Services

Created in 1977 as the Health Care Financing Administration (HCFA) and renamed in June 2001, this federal agency is responsible for the administration of the nation's largest healthcare programs, Medicare and Medicaid.

CMS-2728 Medical Evidence Report

Provides source data about ESRD patients, including information on patient demographics, primary cause of renal disease, comorbidity, laboratory values, dialysis treatment, transplant, dialysis training, employment status, and initial insurance coverage.

CMS-2744 ESRD Facility Survey

Data collected annually by CMS from all facilities certified to provide Medicare-covered renal dialysis and transplantation. The survey includes the entire United States and encompasses the full calendar year, with geographical data to the facility's ZIP code level. Each record contains facility information and information on the number of patients served, dialysis treatments provided, and kidney transplants performed, for Medicare and non-Medicare patients.

CMS-2746 Death Notification

A form used to report ESRD patient demographic information and information on the primary cause of death.

Chain provider

A business entity that owns 20 or more dialysis units located in more than one state. This definition applies to all chain affiliation references in the USRDS Annual Data Reports since 2000.

CHF Congestive heart failure

A risk factor for and complication of kidney disease.

CWF Common Working File System

The Medicare Part A and Part B benefit coordination and claims validation system, through which CMS maintains institutional and physician/supplier claims-level data. CWF claims records are the data sources for most claims and utilization files used by the USRDS.

DM Diabetes mellitus

A condition of impaired ability to metabolize carbohydrates, protein, and fat, both a complication of kidney disease and a risk factor for ESRD and heart disease.

EGHP Employer Group Health Plan

A source of data on CKD patients aged less than 65 years and continuously enrolled in a fee-for-service plan for two consecutive years.

ESRD End-stage renal disease

A condition in which kidney function is not adequate to support life.

ESRD Networks

Eighteen geographically defined organizations under contract to CMS serving as liaisons between the federal government and providers of ESRD services. The Network Organizations oversee the quality of patient care, collect data to administer the national Medicare ESRD program, and provide technical assistance to ESRD providers and patients.

EPO Erythropoietin

A hormone secreted chiefly by the adult kidney; it acts on the bone marrow to stimulate red cell production. Erythropoietin is available as a therapeutic agent used to treat anemia resulting from chronic renal failure and other conditions.

For-profit facility

A dialysis facility owned, leased, or by any other means, controlled by a single business entity.

Freestanding facility; independent unit

A dialysis facility licensed to provide only outpatient and home maintenance dialysis.

HCFA Health Care Financing Administration

See CMS, Centers for Medicare & Medicaid Services.

HD Hemodialysis

Removal of uremic toxins from the blood by virtue of the difference in rates of their diffusion through a semipermeable membrane while being circulated outside the body.

Hospital-based facility

A dialysis facility attached to or located in a hospital and licensed to provide outpatient dialysis services.

Incident patient

A patient starting renal replacement therapy for ESRD during a given calendar year. Excludes patients with acute renal failure, patients with chronic renal failure who die before receiving treatment for ESRD, and patients whose ESRD treatment is not reported through CMS.

NCH National Claims History 100% Nearline File

Contains all Common Working File (CWF) Part A (provider) and Part B (physician/supplier) Medicare claims and adjusted claims information.

NIDDK National Institute of Diabetes and Digestive and Kidney Diseases

A part of the NIH that conducts and supports research on internal medicine diseases, including kidney, urologic, and hematologic diseases.

NIH National Institutes of Health

The federal focal point for medical research in the United States and one of eight health agencies of the Public Health Services, part of the Department of Health and Human Services.

PD Peritoneal dialysis

A type of dialysis in which fluid (dialysate) is introduced into the abdominal cavity and uremic toxins are removed across the peritoneum.

Period prevalent patient

A patient receiving treatment for ESRD at some point during a given time period, usually six or twelve months. Patients may die during the period or be point prevalent at the end of the period.

Point prevalent patient

A patient reported as receiving treatment for ESRD on a particular day, such as December 31 of a given year.

PMMIS/REBUS/REMIS Program Medical Management and Information System for ESRD/Renal Beneficiary and Utilization System/Renal Management Information System

The major source of data for the USRDS. This CMS file incorporates data from the Medical Evidence Report (CMS-2728), the Death Notification (CMS-2746), the Medicare Enrollment Database, Medicare inpatient and outpatient claims, the SIMS database, and the UNOS Transplant Database.

Prevalent patient

A patient receiving renal replacement therapy or having a functioning kidney transplant (regardless of when the transplant was performed). Excludes patients with acute renal failure, patients with chronic renal failure who die before receiving treatment for ESRD, and patients whose ESRD treatments are not reported through CMS.

Reuse

A process by which a hemodialyzer is cleaned and disinfected, allowing multiple uses on the same patient.

SAF Standard Analysis Files

CMS files containing final action Medicare Part A claims data, including Inpatient, Outpatient, Home Health Agency, Hospice, Skilled Nursing Facility, Clinical Laboratory, Durable Medical Equipment, and 5% Sample Beneficiary.

SAS® Statistical Analysis System

Format chosen for the USRDS SAFs because it is widely used, easily transported, and largely self-documenting. SAS is a commercially available data management and statistical analysis software system that runs on most computers, from mainframes to PCs, and it is almost universally available on university computer systems. The USRDS SAFs take full advantage of the program's ability to incorporate a large amount of documentation into the file.

SHR Standardized hospitalization ratio

Used to compare hospitalization rates for a selected group of patients by computing the ratio of the group's observed hospitalization rate to the expected hospitalization rate for the national ESRD population.

SIMS Standard Information Management System

A database generated by the ESRD Networks used by the USRDS to provide detailed treatment history and to follow non-Medicare patients more closely.

SMR Standardized mortality ratio

Used to compare dialysis patient mortality rates from year to year. Mortality rates for a subgroup of patients are compared to a set of reference rates, with adjustments for age, race, gender, and diabetes as a cause of ESRD.

STR Standardized transplantation ratio

Used to compare the transplant rate of a sub-group of patients to the national transplant rate.

Transplant center

A hospital unit licensed to provide transplantation and other medical and surgical specialty services for the care of kidney transplant patients, including inpatient dialysis furnished directly or under arrangement.

UNOS United Network for Organ Sharing

A private, non-profit organization that maintains the organ transplant list for the nation and coordinates the matching and distribution of organs to patients awaiting transplant.

Wait-list

A list maintained by UNOS of patients awaiting an organ transplant.

