Description of Data Elements

Nationwide Inpatient Sample (NIS) Inpatient Core Files

This document contains cumulative descriptions of data elements across all states and years of HCUP data from 1988 to the current data year. Please refer to the Overview of the Nationwide Inpatient Sample for specific information on which states are included in each year of the NIS.

Not all variables in the NIS are uniformly coded or available across all the states. Please check the "State Specific Notes" section for each data element before analysis.

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AGE - Age in years at admission

General Notes

Age in years (AGE) is calculated from the birth date (DOB) and the admission date (ADATE) with the following exceptions:

- AGE is set to the supplied age if the age cannot be calculated (ADATE and/or DOB is missing or invalid). Note: If the supplied age is the age at discharge instead of the age at admission, then the supplied age is NOT used.
- AGE is missing (.) if the age cannot be calculated and the supplied age is missing.
- AGE is invalid (.A) if
 - o it is out of range (AGE NE 0-124) or
 - o the age cannot be calculated and the supplied age is nonnumeric.

An invalid calculated AGE is not replaced by the supplied age.

- If the data source does not provide the necessary dates to calculate age
 or the reported age at admission, then beginning in the 1998 data, AGE is
 not present on the HCUP files. In the 1988-1997 data, AGE is retained on
 the HCUP files and is set to unavailable from source (.B).
- AGE is set to inconsistent (.C) if one of the HCUP edit checks is triggered.
 The age edit checks vary by year.
 - Beginning in the 1998 data, AGE is less than 0 (EAGE02), is greater than 124 (EAGE03), is inconsistent with neonatal diagnoses (EAGE04), or is inconsistent with maternal diagnoses/procedures (EAGE05).
 - In the 1988-1997 data, AGE is inconsistent with AGEDAY (ED021), neonatal diagnoses (ED3nn), maternal diagnoses (ED4nn), or maternal procedures (ED5nn).

When processing the 1996 HCUP data, no adjustment was made for the leap year when age was calculated from date of birth and admission date. This caused infants admitted on the day before their first birthday to have AGE=1 instead of AGE.

Uniform Values			
Variable	Description	Value	Value Description
AGE	AGE Age in years at admission	0-124	Age in years
admissio			Missing
		.A	Invalid
		.B	Unavailable from source (coded in 1988-1997 data only)
		.C	Inconsistent: beginning with 1998 data, EAGE02, EAGE03, EAGE04, EAGE05; in 1988-1997 data, ED021, ED3nn, ED4nnn, ED5nn

State Specific Notes

Arizona

The reported age was not used when AGE could not be calculated because Arizona supplied age at discharge.

California

In all years, California assigned the date of birth to admission date when the admission date was not reported and the discharge had a principal diagnosis indicating a newborn (defined as DX1 equal to V3x.0x). This caused the calculated age to be 0 days.

Prior to 1995, California reported ages at discharge. Only the calculated age was used to assign AGE.

Beginning in 1995, California reported ages at admission. When AGE could not be calculated from dates, the reported age was assigned.

Colorado

Beginning with 1998, the Colorado supplied age at admission was used to assign AGE when the age could not be calculated.

From 1994-1997, Colorado supplied age at admission. For consistency with earlier years of the SASD, however, only the calculated age was used to assign the HCUP variable AGE.

From 1988-1993, Colorado did not supply age at admission. Only the calculated age could be used to assign the HCUP variable age.

Connecticut

Patient age could not be calculated from dates since Connecticut did not report full dates of birth. During HCUP processing, only the reported age could be used to assign AGE.

Florida

In 1997, patient age could not be calculated from dates since Florida did not report admission or birth dates. During HCUP processing, only the reported age could be used to assign AGE.

Beginning in 1998, Florida supplied ADATE and DOB for patients less than 11 years old. Only the reported age in years could be used to assign AGE for patients over 10 years old.

Georgia

Patient age could not be calculated from dates because Georgia did not supply date of birth. During HCUP processing, only the reported age could be used to assign AGE.

Hawaii

Beginning in 1998, Hawaii provided the date of birth (DOB) with a four-digit year.

In prior years, only a two-digit year was available. To compensate for the two-digit birth year, the birth century was assigned as 1800 if the reported date of birth was after the admission date. Birth century was assigned as 1900 for all other records.

Iowa

AGE may differ by one year from the actual age. When only the year of birth is available, lowa assigns the day and month of birth to '01', which may cause the age calculated from birth date to be one year less than the actual age.

Illinois

Only the calculated age could be used to assign AGE because Illinois did not supply age in years.

Massachusetts

Prior to October 1998, ages greater than 100 years should be interpreted with caution. Age is calculated using the birth and admission date, but only a two-digit year for date of birth (DOB) was provided by the data source. An additional indicator variable provided by the data source, the "Century Birth date," indicates whether the age of the patient was greater or less than 100 years. HCUP experience has shown that this indicator was often not set when it should have been. Thus, if the century indicator specified 1800 or the birth date occurred after the admit date, the century for the date of birth was set to 1800. If the birth date is erroneously after the admit date, this rule causes the age in years (AGE) to be incorrectly greater than 100. If the age does not agree with neonatal or maternal diagnoses and/or procedures, the age is set to inconsistent (.C).

Beginning in October 1998, Massachusetts provides a four-digit birth year. The birth century indicator and the admission date are not used to modify the date of birth.

New Jersey

Prior to 1994, New Jersey reports age as a two-digit code with a maximum of 99 and provides a birth century indicator. Beginning in 1994, New Jersey provides a four-digit birth year. If age could not be calculated (ADATE or DOB missing or invalid) then age was assigned as follows:

<u>Year of</u> <u>Data</u>	HCUP processing of AGE
1988-1991	If DOB is greater than ADATE, assign AGE as the reported age plus 100. Otherwise, assign AGE as the reported two-digit age.
1992-1993	If DOB is greater than ADATE, assign AGE as the reported age plus 100. Otherwise, assign AGE as the reported two-digit age and add 100 if the birth century flag indicates that the patient is age 100 or older.
Beginning 1994	Assign AGE as the reported age, if the reported AGE was in the range of 1-124 years. Otherwise, assign AGE as invalid (.A).

New York

In the 1988-1997 HCUP New York databases, AGE could not be calculated because New York did not report full admission and birth dates. During HCUP processing, only the reported age in years could be used to assign AGE.

Beginning with the 1998 data, New York provided complete dates and AGE could be calculated.

Oregon

Oregon reports age at discharge. During HCUP processing, reported age was not used when patient age (AGE) could not be calculated from dates.

Pennsylvania

Pennsylvania discharges which are considered as having "sensitive conditions" based on their DRG, diagnoses, and procedures, had AGE set as follows:

If AGE is coded (>= 0), set AGE to the midpoint of 5-year intervals. The age intervals begin with 0-4 and end with 85+. For example,

<u>AGE</u>	New Value
0 - 4	2
5 - 9	7
10 - 14	12
15 - 19	17
20 - 24	22
5 year increment	midpoint of 5 year interval
85+	85

The sensitive conditions and the screens for selecting them are listed below. The DRG and ICD-9-CM code screens are separated by "or" operators. The screen for sensitive conditions was updated during the processing of the 1997 HCUP data. Some out-of-date diagnoses and procedures, marked by "(D)", were dropped from the screen. Other diagnoses and procedures were added; these are marked by "(A)."

	DRG's OR	<u>Diagnoses OR</u>	<u>Procedures</u>
		634-634.92 (D)	69.01, 69.02
		635-635.99 (A)	69.09 (A)
		636-636.99	69.5-69.59
Abortion 380	380-381	637-637.99	69.93 (D)
		638-638.99	74.91, 75.0
		639-639.99	96.49 (D)
		V61.7	

	DRG's OR	Diagnoses OR	<u>Procedures</u>
		042	
		043-044.9 (D)	
AIDS	488-490	795.71 (A)	
AIDO	700-430	795.8 (D)	
		V08 (A)	
		V65.44 (A)	
Psychiatric		290-319.99	94.2-94.59 (A)
	424-432	E95.0-E95.99	
a Sycillatile	727 702	E98.0-E98.99	04.2 04.00 (71)
		V11.0-V11.99 (A)	
Substance Abuse		303-305.93	
	433-437	980.0 (A)	94.4-94.69 (A)
		V65.42 (A)	

South Carolina

The calculation of AGE differs across years.

Beginning in 2000

South Carolina reported a four-digit year for date of birth (DOB). No adjustments to birth century were made during HCUP processing.

From 1996 to 1999

Only a two-digit year for date (DOB) was provided by the data source.

- If DOB > admission date (ADATE), the birth century was assigned as 18 (e.g., if ADATE = 01/02/88 and DOB = 01/03/88, then the birth year was set to 1888 and the calculated age was 99).
- If DOB <= ADATE, the birth century was assigned as 19 (e.g., if ADATE = 01/02/88 and DOB = 01/01/88, then the birth year was set to 1988 and the calculated age in years was 0).

Using only the admission date to determine births in the 1800s causes no patient ages to be greater than 99 years.

<u>In 1993 and 1995</u>

South Carolina reported a two-digit year for date of birth (DOB). During HCUP processing, the birth century was assigned as 1800 if the reported age was at

least 100 or the reported date of birth was after the admission date. Birth century was assigned as 1900 for all other records.

<u>In 1994</u>

South Carolina reported a four-digit year for date of birth (DOB). No adjustments to birth century were made during HCUP processing.

Tennessee

Only the calculated age could be used to assign AGE because Tennessee did not supply age in years.

Utah

The reported age was not used when AGE could not be calculated because Utah supplied age at discharge.

Virginia

Patient age could not be calculated from dates since Virginia did not report date of birth. During HCUP processing, only the reported age could be used to assign AGE.

Washington

Availability of Reported Age

During HCUP processing of 1988-1992 discharges, the reported age was not used when AGE could not be calculated because Washington reported age at discharge. The appropriate edit check for consistency of reported and calculated ages could not be performed.

Beginning with 1993 discharges, Washington reported age at time of admission, consistent with the HCUP definition of AGE. Therefore, if the patient's age could not be calculated from dates, the reported age was assigned to AGE.

Ages Greater Than 99 Years

For 1988-1992 discharges, due to the coding of date of birth, no patient ages are greater than 99 years. Only a two-digit year for date of birth (DOB) was provided by the data source.

• If DOB is greater than admission date (ADATE), the birth century was assigned as 18 (e.g., if ADATE = 01/02/88 and DOB = 01/03/88, then the birth year was set to 1888 and the calculated age was 99).

• If DOB is less than or equal to ADATE, the birth century was assigned as 19 (e.g., if ADATE = 01/02/88 and DOB = 01/01/88, then the birth year was set to 1988 and the calculated age in years was 0).

For 1993-1996 discharges, the birth century was assigned as 1800 if the reported age was at least 100 or the reported date of birth was after the admission date. Birth century was assigned as 1900 for all other record. The age range is not truncated at 99.

Beginning in 1997, the reported age was no longer used to indicate ages over 100. This is consistent with the coding of AGE in other states. The coding of AGE in 1997 is the same as specified for 1988-1992.

Beginning in 1998, Washington provided a four-digit birth year with the century. If the reported date of birth was greater than the admission date, then the original date of birth remains unchanged and the age at admission (AGE and AGEDAY) was set to inconsistent (.C).

Wisconsin

An error during HCUP processing of 1989-1992 discharges caused age in years (AGE) and date of birth (DOB) to be set to missing (.) for all patients born in the year 1900. Beginning with 1993 discharges, AGE and DOB were processed correctly.

From 1989-1994, only the calculated age could be used to assign AGE because Wisconsin did not supply age in years. The appropriate edit check for consistency of reported and calculated ages could not be performed.

For 1995 discharges, the source supplied an age in years which was used if the age could not be calculated from date of birth and admission date.

Beginning in 1996, only the calculated age could be used to assign AGE because Wisconsin had truncated ages over 96 years to 96.

AGEDAY - Age in days (when AGE is less than 1 year)

General Notes

Age in days (AGEDAY) is reported for patients less than 1 year old. AGEDAY is calculated from date of birth (DOB) and the admission date (ADATE) with the following exceptions:

- AGEDAY is set to the supplied age in days if the age cannot be calculated (ADATE and/or DOB is missing or invalid).
- AGEDAY is missing (.) if the age cannot be calculated and the reported age in days is missing.
- AGEDAY is missing (.) if the calculated age in years is out of range (AGE NE 0-124).
- AGEDAY is invalid (.A) if the age in days cannot be calculated and the supplied age in days is nonnumeric. An invalid calculated AGEDAY is not replaced by the reported age in days.
- If the data source does not provide the necessary dates to calculate age in days or the reported age in days, then beginning in the 1998 data, AGEDAY is not present on the HCUP files. In the 1988-1997 data, AGEDAY is retained on the HCUP files and is set to unavailable from source (.B).
- AGEDAY is set to inconsistent (.C) if one of the HCUP edit checks is triggered. The age edit checks vary by year.
 - Beginning in the 1998 data, AGEDAY is inconsistent with neonatal diagnoses (EAGE04), or is inconsistent with maternal diagnoses/procedures (EAGE05).
 - In the 1998-1997 data, AGEDAY is inconsistent with AGE (ED021), neonatal diagnoses (ED3nn), maternal diagnoses (ED4nn), or maternal procedures (ED5nn).

When processing the 1996 HCUP inpatient data, no adjustment was made for the leap year when age was calculated from date of birth and admission date. This caused infants admitted on the day before their first birthday to have AGE=1 and AGEDAY = missing (.), instead of AGE=0 and AGEDAY=364.

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Uniform Values					
Variable	Description	Value	Value Description		
	Age in days (when AGE is less than 1 year)	0-364	Days		
		less than 1		Missing	
					.A
		.B	Unavailable from source (coded in 1988-1997 data only)		
		.C	Inconsistent: beginning with 1998 data, EAGE04, EAGE05; in 1988-1997 data, ED021, ED3nn, ED4nnn, ED5nn		

State Specific Notes

Arizona

Only the calculated age could be used to assign AGEDAY because Arizona did not supply age in days.

California

California assigned the date of birth to admission date when the admission date was not reported and the discharge had a principal diagnosis indicating a newborn (defined as DX1 equal to V3x.0x). This caused the calculated age to be 0 days.

Connecticut

Patient AGEDAY could not be calculated from dates since Connecticut did not report full dates of birth. During HCUP processing, only the reported age in days could be used to assign AGEDAY.

Georgia

AGEDAY is coded differently in Georgia than in the other HCUP states. AGEDAY was assigned from the reported age in days because Georgia did not supply date of birth.

- Patients less than 1 month old are coded in days from 0 to 30 (i.e., 0, 1, 2, 3 etc.).
- Patients between 1 month and 1 year old are coded in 30 day intervals (i.e., 30, 60, 90, 120, etc.)

The maximum value for AGEDAY is 330.

Hawaii

Beginning in 2000, the reported age in days was used when the age in days could not be calculated from dates. Prior to 2000, only the calculated age could be used to assign AGEDAY. From 1996-1998, Hawaii did not supply age in days. In 1998-1999, Hawaii reported age in days, but the coding was not consistent with the HCUP standard coding.

Beginning in 1998, Hawaii provided the date of birth (DOB) with a four-digit year. In prior years, only a two-digit year was available.

Iowa

AGEDAY may be incorrectly set to invalid (.A) on newborn records. When only the year of birth is available, lowa codes the day and month of birth to '01'. This causes the calculated age in days to be negative, and therefore set to invalid (.A).

Only the calculated age could be used to assign AGEDAY. Prior to 1998, Iowa did not supply age in days. Beginning in 1998, Iowa supplied age in days, but the coding was inconsistent with HCUP standards.

Illinois

Only the calculated age could be used to assign AGEDAY because Illinois did not supply age in days.

Kentucky

Only the calculated age in days could be used to assign AGEDAY because Kentucky did not supply this information.

Maine

Only the calculated age could be used to assign AGEDAY because Maine did not supply age in days.

North Carolina

Only the calculated age in days could be used to assign AGEDAY because North Carolina did not supply this information.

New Jersey

Only the calculated age could be used to assign AGEDAY because New Jersey did not supply age in days.

New York

In the 1988-1997 HCUP New York databases, AGEDAY could not be calculated because New York did not report full admission and birth dates. During HCUP processing, only the reported age in days could be used to assign AGEDAY.

Beginning with the 1998 data, New York provided complete dates and AGEDAY could be calculated.

Oregon

During HCUP processing, only the calculated age in days could be used to assign AGEDAY because:

- Oregon did not report age in days in the data prior to 1998 and
- Oregon reported age in days at discharge beginning in the 1998 data.

Pennsylvania

Pennsylvania discharges which are considered as having "sensitive conditions" based on their DRG, diagnoses, and procedures, had AGEDAY set to missing (.) if AGEDAY was coded (AGEDAY >= 0).

The sensitive conditions and the screens for selecting them are listed below. The DRG and ICD-9-CM code screens are separated by "or" operators. The screen for sensitive conditions was updated during the processing of the 1997 HCUP data. Some out-of-date diagnoses and procedures, marked by "(D)", were dropped from the screen. Other diagnoses and procedures were added; these are marked by "(A)."

	DRG's OR	Diagnoses OR	<u>Procedures</u>
		634-634.92 (D)	69.01, 69.02
		635-635.99 (A)	69.09 (A)
		636-636.99	69.5-69.59
Abortion	380-381	637-637.99	69.93 (D)
		638-638.99	74.91, 75.0
		639-639.99	96.49 (D)
		V61.7	

	DRG's OR	Diagnoses OR	<u>Procedures</u>
		042	
		043-044.9 (D)	
AIDS	488-490	795.71 (A)	
AIDO	700-430	795.8 (D)	
		V08 (A)	
		V65.44 (A)	
	424-432	290-319.99	
Psychiatric		E95.0-E95.99	94.2-94.59 (A)
3 Sychiatric	727-402	E98.0-E98.99	34.2-34.33 (A)
		V11.0-V11.99 (A)	
Substance Abuse	433-437	303-305.93	
		980.0 (A)	94.4-94.69 (A)
		V65.42 (A)	

Tennessee

Only the calculated age could be used to assign AGEDAY because Tennessee did not supply age in days.

Texas

Only the calculated age in days could be used to assign AGEDAY because Texas did not supply this information.

Utah

Only the calculated age could be used to assign AGEDAY because Utah did not supply age in days.

Virginia

Age in days could not be calculated from dates since Virginia did not report the date of birth. During HCUP processing, only the reported age in days could be used to assign AGEDAY.

Washington

Only the calculated age could be used to assign AGEDAY because Washington did not supply age in days.

West Virginia

Only the calculated age in days could be used to assign AGEDAY because West Virginia did not supply this information.

AMONTH - Admission month

General Notes

Admission month (AMONTH) is derived from either the month of the admission date or the supplied admission month. A valid nonmissing month is assigned to AMONTH even if the admission year or day is invalid or missing. Therefore, it is possible to have a valid AMONTH when the admission date is invalid or missing.

If AMONTH is nonnumeric or out of range (month NE 1-12), then AMONTH is invalid (.A).

If the data source does not provide the admission month, then beginning in the 1998 data, AMONTH is not present on the HCUP files. In the 1988-1997 data, AMONTH is retained on the HCUP files and is set to unavailable from source (.B).

Uniform Values			
Variable	Description	Value	Value Description
AMONTH	Admission month	1-12	Admit month
			Missing
		.A	Invalid
		В	Unavailable from source (coded in 1988-1997 data only)

State Specific Notes

None

ASOURCE - Admission source, uniform coding

General Notes

ASOURCE indicates the source of the admission (emergency department; transfer from a hospital; routine, birth and other; etc.) recoded into HCUP uniform values. Routine, birth, and other (ASOURCE=5) includes referrals from physicians, clinics, and HMOs. Transfer from a hospital may include transfers within the same hospital as well as transfers between hospitals.

If the data source does not provide the admission source, then beginning in the 1998 data, ASOURCE is not present on the HCUP files. In the 1988-1997 data, ASOURCE is retained on the HCUP files and is set to unavailable from source (.B).

Beginning in the 1998 data, the data element ASOURCE_X retains the source of admission as provided by the data source.

Uniform Values			
Variable	Description	Value	Value Description
ASOURCE	CE Admission	1	Emergency department
	source,	2	Another hospital
	uniform coding	3	Another health facility including long term care
		4	Court/Law enforcement
		5	Routine, birth, and other
			Missing
		.A	Invalid
		В	Unavailable from source (coded in 1988-1997 data only)

State Specific Notes

Arizona

Arizona					
	ASOURCE_X ASOURCE				
Value	Description	Value	Description		
7	Emergency room	1	Emergency department		

4	Transfer from hospital	2	Another hospital
5	Transfer from a skilled nursing facility	13 11	Other health facility
6	Transfer from another health care facility		including long-term care
8	Court/Law enforcement	4	Court/Law enforcement
1	Physician referral		
2	Clinic referral		
3	HMO/AHCCCS health plan referral		
1	Normal delivery (if ATYPE=4)	5	Routine including births and other sources
2	Premature delivery (if ATYPE=4)		
3	Sick baby (if ATYPE=4)		
4	Extramural birth (if ATYPE=4)		
9, Blank	Information not available, Missing	-	Missing
	ues not documented by a source	.A	Invalid

California

California			
	ASOURCE_X	ASOURCE	
Value	Description	Value	Description
nn1	Route was this hospital's emergency room	1	Emergency department
51n, where n = 0 or 2	Acute inpatient care (this hospital)	2	Another hospital
52n, where n = 0 or 2	Acute inpatient care (another hospital)		Another hospital
2mn, where m = 0-3, n = 0 or 2	Residential care facility	3	Other health facility including long-term care
3mn, where m = 0-3, n = 0 or 2	Ambulatory surgery		

4mn, where m = 0-3, n = 0 or 2	Skilled Nursing/Intermediate care		
5mn, where m = 0 or 3, n = 0 or 2	Acute inpatient hospital care (not a hospital)		
6mn, where m = 0-3, n = 0 or 2	Other inpatient hospital care		
8mn, where m = 0-3, n = 0 or 2	Prison/jail	4	Court/Law enforcement
1mn, where m = 0-3, n = 0 or 2	Home		
7mn, where m = 0-3, n = 0 or 2	Newborn	5	Routine including births and other sources
9mn, where m = 0-3, n = 0 or 2	Other		
000, Blank	Missing		Missing
Any values r source	not documented by the data	.A	Invalid

The <u>first digit</u> of ASOURCE_X describes the <u>site</u> from which the patient originated (e.g., home (1), residential care facility (2), ambulatory surgery (3), skilled nursing/intermediate care (4), acute inpatient hospital care (5), other inpatient hospital care (6), newborn (7), prison/jail (8), other (9)).

The <u>second digit</u> of ASOURCE_X describes the <u>license</u> of site from which the patient originated (e.g., this hospital (1), another hospital (2), not a hospital (3)).

The <u>third digit</u> describes the <u>route</u> by which the patient was admitted (e.g., this hospital's emergency room (1), not this hospital's emergency room (2). Source value 2 includes patients seen in the emergency room of another hospital and patients not seen in any emergency room.).

Newborns

In all years, California assigned all records containing a principal diagnosis code of "newborn, born in hospital" (defined as DX1 equal to V3x.0x) to an admission source of newborn, regardless of the admission source reported by the hospital. These discharges are included under the uniform category routine, birth, and other (ASOURCE = 5).

Home Health Service

Prior to 1995, the categories coded under routine, birth, and other (ASOURCE = 5) included an admission source of "Home Health Service."

Beginning in 1995, home health service is not reported by California as a separate category. No documentation is available from the source to indicate whether home health service is reported under another source category.

Court/Law Enforcement

Prior to 1995, the source documentation supplied by California does not indicate which source categories are used for "Court/Law Enforcement" (ASOURCE=4).

Beginning in 1995, the source reported a separate category for admissions from "Prison/Jail." These discharges are included under the uniform category "Court/Law Enforcement" (ASOURCE = 4).

Ambulatory Surgery

Beginning in 1995, the source reports a separate category for admissions from ambulatory surgery. These discharges are included under the uniform category "Other Facility, Including Long Term Care" (ASOURCE = 3).

Colorado

	Colorado				
	ASOURCE_X	ASOURCE			
Value	Description	Value Description			
7	Emergency room	1	Emergency department		
4	Transfer from a hospital	2	Another hospital		
A	Transfer from a rural hospital		Another hospital		
5	Transfer from SNF	3			

6	Transfer from another facility		Other health facility including long-term care
8	Court/Law enforcement	4	Court/Law enforcement
1	Physician referral		
2	Clinic referral		
3	HMO referral		
1	Normal delivery (if ATYPE=4)		Routine including births and
2	Premature delivery (if ATYPE=4)	5	other sources
3	Sick baby (if ATYPE=4)		
4	Extramural birth (if ATYPE=4)		
9, 0, Blank	Unknown, Missing	-	Missing
Any value the data	es not documented by source	.A	Invalid

Connecticut

Connecticut				
	ASOURCE_X	ASOURCE		
Value	Description	Value	Description	
2	Emergency department	1	Emergency department	
4	Another hospital	2	Another hospital	
3	Outpatient department	3	Other health facility	
5	SNF/ICF		including long-term care	
		4	Court/Law enforcement	
1	Routine from home			
6	Newborn	5	Routine including births and	
7	Still born		other sources	
8	Same day care			
Blank	Missing		Missing	
Any values not documented by the data source		.A	Invalid	

Florida

Florida					
	ASOURCE_X ASOURCE				
Value	Description	Value	Description		
07	Emergency room	1	Emergency department		
04	Transfer from hospital	2	Another hospital		
05	Transfer from skilled nursing facility	3	Other health facility including long-term		
06	Transfer from another health care facility	3	care		
08	Court/Law enforcement	4	Court/Law enforcement		
01	Physician referral		Routine including births and other sources		
02	Clinic referral				
03	HMO referral				
10	Normal delivery (if ATYPE=4)	5			
11	Premature delivery (if ATYPE=4)				
12	Sick baby (if ATYPE=4)				
13	Extramural birth (if ATYPE=4)				
09, 14, Blank	Other/Unknown, Other/Unknown (if ATYPE=4), Missing	-	Missing		
Any valu data sou	ies not documented by the irce	.A	Invalid		

Georgia

Georgia				
ASOURCE_X ASOURCE				
Value	Description	Value Description		
7	Emergency room	1	Emergency department	
4	Transfer from hospital	2	Another hospital	
5	Transfer from a skilled nursing facility		Other health facility including long-term care	

6	Transfer from another health care facility		
8	Court/Law enforcement	4	Court/Law enforcement
1	Referral		
2	Clinic referral		
3	HMO referral		
1	Normal delivery (if ATYPE=4)	5	Routine including births
2	Premature delivery (if ATYPE=4)		and other sources
3	Sick baby (if ATYPE=4)		
4	Extramural birth (if ATYPE=4)		
0, 9, Blank	Unknown, Missing	-	Missing
•	er values including tic characters	.A	Invalid

Hawaii

	Hawaii				
	ASOURCE_X	ASOURCE			
Value	Description	Value	Description		
7	Emergency room	1	Emergency department		
4	Transfer from hospital				
A	Transfer from a rural hospital primary care facility	2	Another hospital		
5	Transfer from a skilled nursing facility	3	Other health facility		
6	Transfer from another health care facility		including long-term care		
8	Court/Law enforcement	4	Court/Law enforcement		
1	Physician referral	5	Routine including births		
2	Clinic referral		and other sources		
3	HMO referral				
1	Normal delivery (if ATYPE=4)				

2	Premature delivery (if ATYPE=4)		
3	Sick baby (if ATYPE=4)		
4	Extramural birth (if ATYPE=4)		
9, Blank	Unknown, Missing		Missing
Any valu	ues not documented by the urce	.A	Invalid

Admission source information was provided in two fields; one for newborns and one for all other patients. ASOURCE_X was assigned as follows:

• If a newborn record (ATYPE=4) then ASOURCE_X = the newborn admission source, Else ASOURCE_X = the admission source for non-newborns.

Iowa

	lowa				
ASOURCE_X		ASOURCE			
Value	Description	Value	Description		
7	Emergency room	1	Emergency department		
4	Transfer from hospital	2	Another hospital		
5	Transfer from a skilled nursing facility	3	Other health facility		
6	Transfer from another health care facility		including long-term care		
8	Court/Law enforcement	4	Court/Law enforcement		
1	Physician referral				
2	Clinic referral				
3	HMO referral				
1	Normal birth (if ATYPE=4)	5	Routine including births		
2	Premature birth (if ATYPE=4)		and other sources		
3	Sick baby (if ATYPE=4)				
4	Extramural birth (if ATYPE=4)				

9, Blank	Unknown, Missing		Missing
Any values not documented by the data source		.A	Invalid

Illinois

	Illinois			
	ASOURCE_X		ASOURCE	
Value	Description	Value	Description	
7	Emergency room	1	Emergency department	
4	Transfer from hospital			
A	Transfer from a rural hospital (beginning in 1997)	2	Another hospital	
5	Transfer from SNF		Other health facility	
6	Transfer from another health care facility	3	including long-term care	
8	Court/Law enforcement	4	Court/Law enforcement	
1	Physician referral			
2	Clinic referral			
3	HMO referral			
1	Normal Delivery (if ATYPE=4)	5	Routine including births	
2	Premature delivery (if ATYPE=4)		and other sources	
3	Sick baby (if ATYPE=4)			
4	Extramural birth (if ATYPE=4)			
9, Blank	Missing	-	Missing	
Any val	lues not documented by the ource	.A Invalid		

Kentucky

Kentucky				
ASOURCE_X ASOURCE				
Value	Description	Value Description		
07	Emergency room	1	Emergency department	

04	Transfer from hospital		Another hospital	
А	Transfer from critical care hospital	2		
05	Transfer from SNF		Other health facility	
06	Transfer from another health care facility	3	including long-term care	
08	Court/Law enforcement	4	Court/Law enforcement	
01	Physician referral			
02	Clinic referral			
03	HMO referral			
11	Normal delivery	5	Routine including births and other sources	
12	Premature delivery			
13	Sick baby			
14	Extramural birth			
09, 19, Blank	Missing	-	Missing	
Any value data sour	es not documented by the	.A	Invalid	

Massachusetts

	Massachusetts				
	ASOURCE_X	ASOURCE			
Value	Description	Value	Description		
7	Outside hospital emergency room		Emergency		
R	Within hospital emergency room (beginning in October 1999)	1	department		
4	Transfer from an acute hospital	2	Another hospital		
5	Transfer from a skilled nursing home	3	Other health facility including long-term		
6	Transfer from Intermediate Care Facility		care		
Т	Transfer from outside ambulatory surgery				
X	Observation				

Υ	Within hospital ambulatory surgery		
8	Court/Law enforcement	4	Court/Law enforcement
1	Physician referral		
2	Within hospital clinic referral		
3	HMO referral		
9	Other (to include level 4 nursing facility)		
L	Outside hospital clinic referral		
M	Walk-in / Self Referral		Routine including births and other sources
А	Normal delivery (if ATYPE = 4)	5	
В	Premature delivery (if ATYPE = 4)		
С	Sick baby (if ATYPE = 4)		
W	Extramural birth (if ATYPE = 4)		
D	Extramural birth (if ATYPE = 4)		
0, Z, Bland	Information not available, Missing	-	Missing
Any valudata so	ues not documented by the urce	.A	Invalid

Maine

	Maine					
	ASOURCE_X	ASOURCE				
Value	Description	Value Description				
7	Emergency room	1	Emergency department			
4	Transfer from a hospital					
А	Transfer from a critical access hospital	2	Another hospital			
5	Transfer from SNF		Other health facility			
6	Transfer from another facility	3	including long-term care			
8	Court/Law enforcement	4	Court/Law enforcement			

1	Physician referral		
2	Clinic referral		
3	HMO referral		
1	Normal newborn (if ATYPE = 4)	5	Routine including births
2	Premature delivery (if ATYPE = 4)		and other sources
3	Sick baby (if ATYPE = 4)		
4	Extramural birth (if ATYPE = 4)		
0, 9, Blank	Missing	-	Missing
-	er values not documented ata source	.A	Invalid

Maryland

	Maryland			
	ASOURCE_X	ASOURCE		
Value	Description	Value	Description	
05	Admitted from home (when the emergency flag provided by MD indicates the record was admitted from the emergency room)	1	Emergency department	
9, 99, Blank	Missing (when the emergency flag provided by MD indicates the record was admitted from the emergency room)	1		
00	Transferred from on-site acute care unit to rehabilitation unit		Another hospital	
01	Transferred from another hospital to a specialty center			
02	Transferred from another hospital for any other reason	2		
11	Transfer from on-site acute care unit to psych unit (Beginning in 2000)			
03	Transferred from a nursing home	3	Other health	
04	Transferred from any other institution		facility including long-term care	

06	Transferred from Lithotripsy facility		
07	Transferred from on-site ambulatory outpatient surgery unit		
08	Transferred from off-site ambulatory outpatient surgery unit		
12	Admitted from on-site sub-acute facility (beginning in 1996)		
13	Admitted from other sub-acute facility (beginning in 1996)		
		4	Court/Law enforcement
05	Admitted from home (when the emergency flag provided by MD does not indicate the record was admitted from the emergency room)	5	Routine including births and other sources
10	Newborn		
9, 99, Blank	Missing (when the emergency flag provided by MD does not indicate the record was admitted from the emergency room)		Missing
Any val source	ues not documented by the data	.A	Invalid

Maryland flagged admissions through emergency rooms as a separate variable from the source of admission. This separate variable was used to recode the source values for "Admitted from Home" (ASOURCE_X = 05) and "Missing" (ASOURCE_X = 9, 99, or blank).

Missouri

Missouri				
	ASOURCE_X	ASOURCE		
Value	Description	Value Description		
7	Emergency room	1	Emergency department	
4	Transfer from hospital			
A	Transfer from a critical access hospital	2	Another hospital	
5	Transfer from a skilled nursing facility	3	Other health facility including long-term care	

6	Transfer from another health care facility			
8	Court/Law enforcement	4	Court/Law enforcement	
1	Physician referral			
2	Clinic referral			
3	HMO referral			
1	Normal delivery (if ATYPE=4)	5	Routine including births	
2	Premature delivery (if ATYPE=4)		and other sources	
3	Sick baby (if ATYPE=4)			
4	Extramural birth (if ATYPE=4)			
9, Blank	Unknown, Missing		Missing	
Any values not documented by the data source		.A	Invalid	

North Carolina

North Carolina					
ASOURCE_X			ASOURCE		
Value	Description	Value	Description		
7	Emergency room	1	Emergency department		
4	Transfer from hospital	2	Another hospital		
5	Transfer from a skilled nursing facility	3	Other health facility including long-term care		
6	Transfer from another health care facility				
8	Court/Law enforcement	4	Court/Law enforcement		
1	Physician referral	5	Routine including		
2	Clinic referral		births and other sources		
3	HMO referral				
1	Normal delivery (if ATYPE=4)				
2	Premature delivery (if ATYPE=4)				

3	Sick baby (if ATYPE=4)		
4	Extramural birth (if ATYPE=4)		
	Documented by source as unknown values; Documented by source as unknown values (if ATYPE = 4)		Missing
Any values no source	ot documented by the data	.A	Invalid

New Jersey

New Jersey				
	ASOURCE_X	ASOURCE		
Value	Description	Value Description		
7	Emergency room	1	Emergency department	
4	Transfer from an acute care hospital	2	Another hospital	
А	Transfer from a rural primary care hospital		Another hospital	
5	Transfer from a skilled nursing facility	3	Other health facility	
6	Transfer from another health care facility		including long-term care	
8	Court/Law enforcement	4	Court/Law enforcement	
1	Physician referral		Routine including births and other sources	
2	Outpatient or Clinic			
3	НМО			
1	Normal birth (if ATYPE=4)			
2	Premature delivery (if ATYPE=4)	5		
3	Sick baby (if ATYPE=4)			
4	Extramural birth (if ATYPE=4)			
9, Blank	Unknown, Missing	0	Missing	
Any values not documented by the data source		.A	Invalid	

In 1995-1996, the admission source, "Transfer from a Rural Primary Care Hospital" was erroneously recoded to the HCUP uniform category "Other Facility, Including Long Term Care" (ASOURCE = 3). Beginning in 1997, the admission source "Transfer from a Rural Primary Care Hospital" was correctly recoded to the HCUP uniform category "Another Hospital" (ASOURCE = 2). This source value was not available from New Jersey prior to 1995.

New York

Admitted from Outpatient Department

- For 1988-1992, the source category "Admitted From Outpatient Department" was recoded to the HCUP uniform category "Routine, Birth and Other" (ASOURCE = 5).
- For 1993, New York recoded "Admitted From Outpatient Department" into the source category "Emergency Room" and during HCUP processing, it was assigned to the HCUP category "Emergency Department" (ASOURCE = 1).
- Beginning in 1994, New York does not report "Admitted from Outpatient Department."

Transfer from a Rural Primary Care Hospital

 Beginning in 1995, New York reported the admission source, "Transfer from a Rural Primary Care Hospital." This was recoded to the HCUP uniform category "Another Hospital" (ASOURCE = 2).

Other Source

- For 1988-1992, the source category "Other Source" was recoded to the HCUP uniform category "Routine, Birth and Other" (ASOURCE = 5).
- For 1993, New York recoded "Other Source" into the source category "Information Not Available" and during HCUP processing, it was assigned to the HCUP category "Missing" (ASOURCE = .).
- Beginning in 1994, New York does not report "Other Source."

New York					
ASOURCE_X ASOURCE					
Value	Description	Value Description			
7	Emergency room	1	Emergency department		
4	Transfer from hospital				
А	Transfer from a rural primary care hospital	2	Another hospital		
5	Transfer from SNF	3			

6	Transfer from another health care facility		Other health facility including long-term care		
8	Court/Law enforcement	4	Court/Law enforcement		
1	Physician referral				
2	Clinic referral				
3	HMO referral				
1	Normal delivery (if ATYPE=4)	5	Routine including births		
2	Premature delivery (if ATYPE=4)		and other sources		
3	Sick baby (if ATYPE=4)				
4	Extramural birth (if ATYPE=4)				
9, Blank	Unknown, Missing	0	Missing		
Any values not documented by the data source		.A	Invalid		

Oregon

Oregon				
	ASOURCE_X	ASOURCE		
Value	Description	Value Description		
07	Emergency room	1	Emergency department	
04	Transfer from hospital	2	Another hospital	
05	Transfer from SNF		Other health facility	
06	Transfer from another health care facility	3	including long-term care	
08	Court/Law enforcement	4	Court/Law enforcement	
01	Physician referral	5	Routine including births	
02	Clinic referral		and other sources	
03	HMO referral			
00	Home Health (discontinued in 1999)			
11	Normal delivery			
12	Premature delivery			
13	Sick baby			
14	Extramural birth			

21	Admissions office (discontinued in 1998)		
22	Newborn (discontinued in 1998)		
09, 19, Blank	Missing	-	Missing
Any values not documented by the data source		.A	Invalid

Pennsylvania

Pennsylvania					
ASOURCE_X			ASOURCE		
Value	Description	Value	Description		
7	Emergency room	1	Emergency department		
4	Transfer from hospital				
A	Transfer from a rural primary care facility (Beginning in 1995)	2	Another hospital		
5	Transfer from a skilled nursing facility				
6	Transfer from another health care facility	3	Other health facility including long-term care		
0	Transfer from psychiatric, substance abuse, or rehabilitation hospital (Beginning in 2000)	3			
8	Court/Law enforcement	4	Court/Law enforcement		
1	Physician referral				
2	Clinic referral				
3	HMO referral		Routine including births and other sources		
1	Normal delivery (if ATYPE=4)	5			
2	Premature delivery (if ATYPE=4)				
3	Sick baby (if ATYPE=4)				
4	Extramural birth (if ATYPE=4)				
0	Unknown (Valid 1989 - 1999)				
9, Blank	Unknown, Missing	-	Missing		

Any values not documented by the data	_	Invalid
source		IIIvaliu

South Carolina

South Carolina				
	ASOURCE_X		ASOURCE	
Value	Description	Value	Description	
7	Emergency room	1	Emergency department	
4	Transfer from hospital			
А	Transfer from a rural primary care hospital	2	Another hospital	
5	Transfer from a skilled nursing facility	3	Other health facility	
6	Transfer from another health care facility	J	including long-term care	
8	Court/Law enforcement	4	Court/Law enforcement	
1	Physician referral			
2	Clinic referral			
3	HMO referral			
1	Normal delivery (if ATYPE=4)	5	Routine including births	
2	Premature delivery (if ATYPE=4)		and other sources	
3	Sick baby (if ATYPE=4)			
4	Extramural birth (if ATYPE=4)			
0, 9, Blank	Information not available, Missing	-	Missing	
Any valu data sou	ues not documented by the urce	.A	Invalid	

Tennessee

Tennessee				
ASOURCE_X ASOURCE				
Value	Description	Value Description		
7	Emergency room	1	Emergency department	
4	Transfer from hospital	2	Another hospital	

5	Transfer from a skilled nursing facility	3	Other health facility
6	Transfer from another health care facility		including long-term care
8	Court/Law enforcement	4	Court/Law enforcement
1	Physician referral		
2	Clinic Referral		
3	HMO referral		
1	Normal delivery (if ATYPE=4)	5	Routine including births
2	Premature delivery (if ATYPE=4)		and other sources
3	Sick baby (if ATYPE=4)		
4	Extramural birth (if ATYPE=4)		
9, Blank	Unknown, Missing	-	Missing
•	lues not documented by a source	.A	Invalid

Texas

	Texas			
ASOURCE_X		ASOURCE		
Value	Description	Value	Description	
7	Emergency room	1	Emergency department	
4	Transfer from a hospital			
A	Transfer from a critical access hospital	2	Another hospital	
5	Transfer from a skilled nursing facility		Other health facility including long-term care	
6	Transfer from another health care facility	3		
0	Transfer from a psychiatric, substance abuse, rehabilitation hospital			
8	Court/Law enforcement	4	Court/Law enforcement	
1	Physician referral	5		

2	Clinic Referral		Routine including	
3	HMO referral		births and other sources	
1	Normal delivery (if ATYPE=4)		Sources	
2	Premature delivery (if ATYPE=4)			
3	Sick baby (if ATYPE=4)			
4	Extramural birth (if ATYPE=4)			
9, Blank	Missing	-	Missing	
II.	d any values not documented data source	.A	Invalid	
Texas	Texas does not provide admission source for newborns.			

Utah

	Utah				
	ASOURCE_X	ASOURCE			
Value	Description	Value	Description		
7	Emergency room	1	Emergency department		
4	Transfer from hospital	2	Another hospital		
5	Transfer from a skilled nursing facility	3	Other health facility including long-term		
6	Transfer from another health care facility		care		
8	Court/Law enforcement	4	Court/Law enforcement		
1	Physician Referral	5	Routine including births and other sources		
2	Clinic referral				
3	HMO referral				
1	Normal newborn (if ATYPE=4) (This is not available in the SASD)				
2	Premature delivery (if ATYPE=4) (This is not available in the SASD)				
3	Sick baby (if ATYPE=4) (This is not available in the SASD)				

4	Extramural birth (if ATYPE=4) (This is not available in the SASD)		
0	Newborn		
9, Blank	Unknown, Missing	-	Missing
Any val	ues not documented by the ource	.A	Invalid

SID: Admission source information was provided in two fields; one for newborns and one for all other patients. ASOURCE_X was assigned as follows:

If a newborn record (ATYPE=4) then ASOURCE_X = the newborn admission source, Else ASOURCE_X = the admission source for nonnewborns.

SASD: Only the non-newborn admission source was provided.

Virginia

	Virginia				
	ASOURCE_X		ASOURCE		
Value	Description	Value	Description		
7	Emergency room	1	Emergency department		
4	Transfer from hospital	2	Another hospital		
5	Transfer from a skilled nursing facility	3	Other health facility		
6	Transfer from another health care facility		including long-term care		
8	Court/Law enforcement	4	Court/Law enforcement		
1	Physician Referral				
2	Clinic referral				
3	HMO referral				
1	Normal newborn (if ATYPE=4)	5	Routine including births		
2	Premature delivery (if ATYPE=4)	5	and other sources		
3	Sick baby (if ATYPE=4)				
4	Extramural birth (if ATYPE=4)				

9, Blank	Unknown, Missing	-	Missing
Any valu	ues not documented by source	.A	Invalid

Washington

	Washington				
	ASOURCE_X		ASOURCE		
Value	Description	Value	Description		
7	Emergency room	1	Emergency department		
4	Transfer from a hospital	2	Another hospital		
5	Transfer from a skilled nursing facility	3	Other health facility		
6	Transfer from another health care facility		including long-term care		
8	Court/Law enforcement	4	Court/Law enforcement		
1	Physician referral				
2	Clinic referral				
3	HMO referral				
9	Other				
1	Normal delivery (if ATYPE=4)	5	Routine including births and other sources		
2	Premature delivery (if ATYPE=4)				
3	Sick baby (if ATYPE=4)				
4	Extramural birth (if ATYPE=4)				
Blank	Missing		Missing		
	alues not documented by ta source	.A	Invalid		

Wisconsin

Wisconsin				
ASOURCE_X ASOURCE				
Value	Description	Value Description		
7	Emergency room	1	Emergency department	
4	Transfer from hospital	2	Another hospital	

5	Transfer from a skilled nursing facility	3	Other health facility including long-term care	
6	Transfer from another health care facility			
8	Court/Law enforcement	4	Court/Law enforcement	
1	Physician referral			
2	Clinic referral			
3	HMO referral			
1	Normal newborn (if ATYPE = 4)	5	Routine including births and other sources	
2	Premature newborn (if ATYPE = 4)			
3	Sick baby (if ATYPE = 4)			
4	Extramural birth (if ATYPE = 4)			
9, Blank	Unknown, Missing	-	Missing	
Any values not documented by the data source		.A	Invalid	

West Virginia

	West Virginia					
	ASOURCE_X		ASOURCE			
Value	Description	Value Description				
7	Emergency room	1	Emergency department			
4	Transfer from hospital	2	Another hospital			
5	Transfer from a skilled nursing facility	3	Other health facility			
6	Transfer from another health care facility		including long-term care			
8	Court/Law enforcement	4	Court/Law enforcement			
1	Physician referral	5	Routine including births			
2	Clinic referral		and other sources			
3	HMO referral					
1	Normal delivery (if ATYPE=4)					
2	Premature birth (if ATYPE=4)					

3	Sick baby (if ATYPE=4)		
4	Extramural birth (if ATYPE=4)		
9, Blank	Unknown, Missing		Missing
Any values not documented by the data source		.A	Invalid

ASOURCE_X - Admission source, as received from source

General Notes

ASOURCE_X retains the source of the admission as provided by the data source. The original values have not been recoded into uniform HCUP values and are source-specific.

The data element ASOURCE indicates the source of the admission recoded into HCUP uniform values

Uniform Values				
Variable	Description	Value	Value Description	
ASOURCE_X	Admission source, as received from source	n(a)	State specific coding - See the "State Specific Notes" section for details	

State Specific Notes

Information on State specific coding for this data element is available under the "State Specific Notes" section for the data element ASOURCE.

ATYPE - Admission type

General Notes

ATYPE indicates the type of admission (emergency, urgent, elective, etc.). Newborn admission types are separated only if that information is available from the data source. No edit check comparing the admission type to diagnosis or procedure codes is performed.

Because it is infrequently available from data sources, the admission type of delivery (ATYPE=5) is discontinued beginning in the 1998 data. If available, deliveries are recoded under urgent (ATYPE=2).

Uniform Values				
Variable	Description	Value	Value Description	
ATYPE	Admission type	1	Emergency	
		2	Urgent	
		3	Elective	
		4	Newborn	
		5	Delivery (coded in 1988-1997 data only)	
		6	Other	
			Missing	
		.A	Invalid	
		.B	Unavailable from source (coded in 1988-1997 data only)	

State Specific Notes

Arizona

Arizona does not separately classify deliveries. The source documentation supplied by Arizona does not indicate which source categories were used for deliveries.

Colorado

In 1995, Colorado began collecting admission type, but it was optional for hospitals to report this data to the hospital association.

Colorado does not separately classify deliveries. The source documentation supplied by Colorado does not indicate which source categories were used for deliveries. Beginning with 1998 data, the HCUP variable for admission type does not include a value for deliveries (ATYPE = 5).

Connecticut

Connecticut does not separately classify deliveries. The source documentation available for Connecticut does not describe which admission type(s) were used for deliveries

Florida

Florida does not separately classify deliveries. According to the documentation available from the source, most normal deliveries are categorized as urgent (ATYPE = 2), and most cesarean births and some normal deliveries are included under elective (ATYPE = 3).

Georgia

Georgia does not separately classify deliveries nor do they have a separate category for "Other." The source documentation available for Georgia does not describe which admission type(s) were used for these categories.

Hawaii

Hawaii does not separately classify deliveries nor do they have a separate category for "Other." The source documentation available for Hawaii does not describe which admission type(s) were used for these categories.

Iowa

lowa does not separately classify deliveries. No documentation was available describing which admission type(s) were used for deliveries.

Illinois

Illinois does not separately classify deliveries. No documentation was available describing which admission type(s) were used for deliveries.

Kansas

Kansas does not separately classify deliveries. The source documentation available for Kansas does not indicate which code was used for deliveries.

Kentucky

Kentucky does not separately classify deliveries. The source documentation supplied by Kentucky does not indicate which source categories were used for deliveries.

Massachusetts

Massachusetts does not separately classify deliveries. The source documentation supplied by Massachusetts does not indicate which source categories are used for deliveries.

Maine

Maine does not separately classify deliveries. The source documentation available for Maine does not describe which admission type(s) were used for deliveries.

Maryland

During HCUP processing of 1993 data, the source category "Rehabilitation" was erroneously recoded to the HCUP category "Invalid" (ATYPE = .A) instead of "Other" (ATYPE = 6). During HCUP processing for other years, the source category Rehabilitation was correctly recoded to the HCUP category "Other" (ATYPE=6).

Beginning in 1997, the source reported a separate category for "Psychiatric" admissions. These discharges are included under the uniform category "Other" (ATYPE = 6).

Beginning in 1998, an admission type of "Delivery" was recoded to "Urgent" (ATYPE = 2).

Missouri

Missouri does not separately classify deliveries. The source documentation supplied by Missouri does not indicate which source categories were used for deliveries.

North Carolina

North Carolina does not separately classify deliveries. The source documentation supplied by North Carolina does not indicate which source categories were used by deliveries.

New Jersey

New Jersey does not separately classify deliveries. No documentation was available describing which admission type(s) were used for deliveries.

New York

New York does not separately classify deliveries. No documentation was available describing which admission type(s) were used for deliveries.

Oregon

Oregon does not separately classify deliveries. No documentation was available about which admission type(s) were used for deliveries.

Pennsylvania

Pennsylvania does not separately classify deliveries. No documentation was available describing which admission type(s) were used for deliveries.

South Carolina

South Carolina does not separately classify deliveries. No documentation was available describing which admission type(s) were used for deliveries.

Tennessee

Tennessee does not separately classify deliveries. The source documentation supplied by Tennessee does not indicate which source categories were used for deliveries.

Texas

Texas does not separately classify deliveries. The source documentation supplied by Texas does not indicate which source categories were used for deliveries.

Utah

Utah does not separately classify deliveries nor do they have a separate category for "Other." The source documentation available for Utah does not describe which admission type(s) were used for these categories.

Washington

Washington does not separately classify deliveries. No documentation was available about which admission type(s) were used for deliveries.

Wisconsin

Wisconsin does not separately classify deliveries. No documentation was available describing which admission type(s) were used for deliveries.

West Virginia

West Virginia does not separately classify deliveries. The source documentation supplied by West Virginia does not indicate which source categories were used for deliveries.

AWEEKEND - Admission day is on a weekend

General Notes

An indicator of whether the admission day is on the weekend (AWEEKEND) is calculated from the admission date (ADATE). If AWEEKEND cannot be calculated (ADATE is missing or invalid), then

- AWEEKEND is missing (.) if ADATE is missing (.) or
- AWEEKEND is invalid (.A) if ADATE is invalid (.A).

Beginning in the 1998 HCUP files, the data element ADAYWK is replaced by admission weekend (AWEEKEND).

Uniform Values				
Variable Description Value Value Description				
	Admission day	0	Admitted Monday-Friday	
	is on a weekend	1	Admitted Saturday-Sunday	
	weekend		Missing	
		.A	Invalid	

State Specific Notes
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Florida

The reported admission day of week was used to assign AWEEKEND. Florida did not provide admission date.

New York

The assignment of AWEEKEND varies by year in New York:

- In the 2000 data, AWEEKEND is assigned from the reported admission day of week if the admission date is missing.
- In the 1998-1999 data, AWEEKEND in New York was calculated from the admission date. Because New York masked the admission dates on AIDS/HIV* records, AWEEKEND is missing (.) on these discharges.

If the 1998-1999 NIS was purchased from NTIS, then a patch file for the 1998-1999 New York records that are missing AWEEKEND will be available through the HCUP Central Distributor in the fall of 2002. At that time, the HCUP Central Distributor will also be distributing an updated version of the 1998-1999 NIS.

*New York identifies AIDS/HIV records by ICD-9-CM diagnosis code or DRG:

- An admitting, principal, or secondary diagnosis of '042', '043', '044', '7958', '27910', '27919', '2793', '1363', '79571', '07951', '07952', '07953', or 'V08'.
- A DRG of 488 "HIV with Extensive Operating Room Procedure," 489 "HIV with Major related condition," or 490 "HIV with or without Other Related Condition".

Please note that the admitting diagnosis is not retained in the HCUP databases.

DIED - Died during hospitalization

General Notes

Died during hospitalization (DIED) is coded from disposition of patient. The HCUP data element for disposition of the patient varies across years of data.

Beginning in the 1998 data, the HCUP data element DISPUniform is used to code DIED.

- If DISPUniform indicates that a patient was discharged alive (values 1-7), then DIED is coded as 0.
- If DISPUniform indicates that a patient died in the hospital (value 20), then DIED is coded as 1.
- If DISPUniform is missing (.) or invalid (.A), then DIED is also missing (.) or invalid (.A).

Patients that died outside of the hospital are coded as missing (DISPUniform = . and DIED = .).

From 1988-1997 data, the HCUP data element DISP is used to code DIED.

- If DISP indicates that a patient was discharged alive (values 1-7), then DIED is coded as 0.
- If DISP indicates that a patient died in or out of the hospital (value 20), then DIED is coded as 1.
- If DISP is missing (.), invalid (.A), or unavailable from the source (.B), then DIED is also missing (.), invalid (.A), or unavailable from the source (.B).

Patients that died outside of the hospital are included in the same category as patients that died in the hospital (DISP = 20), so for these patients DIED is coded as 1.

In the 1998-2000 HCUP data files, missing values of DIED were erroneously set to invalid (.A).

Uniform Values				
Variable	Description	Value	Value Description	
I II	Died during	0	Did not die	
	hospitalization	1	Died	
			Missing	
		.A	Invalid	
		В	Unavailable from source (coded in 1988-1997 data only)	

State Specific Notes

New Jersey

In 1994, New Jersey reported that Englewood Hospital and Medical Center (DSHOSPID = 00450) incorrectly reported transfers to other hospitals as deaths.

DISCWT - Weight to discharges in the universe. Use to create national estimates for all analyses except those that involve total charges.

General Notes

DISCWT and DISCWTcharge are discharge-level weights. To produce national estimates, use DISCWT or DISCWTcharge to weight sampled discharges in the Core file to the discharges from all community hospitals located in the U.S.

- Prior to the 2000 NIS, DISCWT should be used to create all national estimates. DISCWTcharge is not available.
- Beginning with the 2000 NIS, DISCWT should be used to create national estimates for all analyses except those that involve total charges.
 DISCWTcharge should be used to create national estimates of total charges.

For detailed information about the development and use of discharge and hospital weights, see the year-specific report on the Design of the HCUP Nationwide Inpatient Sample.

	Uniform Values				
Variable	Description	Value	Value Description		
DISCWT	Weight to discharges in the universe. Use to create national estimates for all analyses except those that involve total charges.	nn.nnnn	Weight to discharges in the universe. Use to create national estimates for all analyses except those that involve total charges.		

State Specific Notes

DISCWT10 - 10% sample weight to discharges in the universe. Use to create national estimates for all analyses except those that involve total charges.

General Notes

DISCWT10 and DISCWTcharge10 are discharge-level weights. To produce national estimates, use DISCWT10 or DISCWTcharge10 to weight sampled discharges in the 10% NIS sample files to the discharges from all community hospitals located in the U.S.

- Prior to the 2000 NIS, DISCWT10 should be used to create all national estimates. DISCWTcharge10 is not available.
- Beginning with the 2000 NIS, DISCWT10 should be used to create national estimates for all analyses except those that involve total charges.
 DISCWTcharge10 should be used to create national estimates of total charges.

For detailed information about the development and use of discharge and hospital weights, see the year-specific report on the Design of the HCUP Nationwide Inpatient Sample.

Uniform Values				
Variable	Description	Value	Value Description	
DISCWT10	10% sample weight to discharges in the universe. Use to create national estimates for all analyses except those that involve total charges.	nnn.nnnn	10% sample weight to discharges in the universe. Use to create national estimates for all analyses except those that involve total charges.	

State Specific Notes

DISCWTcharge - Weight to discharges in the universe. Use to create national estimates for total charges.

General Notes

DISCWT and DISCWTcharge are discharge-level weights. To produce national estimates, use DISCWT or DISCWTcharge to weight sampled discharges in the Core file to the discharges from all community hospitals located in the U.S.

- Prior to the 2000 NIS, DISCWT should be used to create all national estimates. DISCWTcharge is not available.
- Beginning with the 2000 NIS, DISCWT should be used to create national estimates for all analyses except those that involve total charges.
 DISCWTcharge should be used to create national estimates of total charges.

For detailed information about the development and use of discharge and hospital weights, see the year-specific report on the Design of the HCUP Nationwide Inpatient Sample.

Uniform Values				
Variable	Description	Value	Value Description	
DISCWTcharge	Weight to discharges in the universe. Use to create national estimates for total charges.	nn.nnnn	Weight to discharges in the universe. Use to create national estimates for total charges.	

State Specific Notes

DISCWTcharge10 - 10% sample weight to discharges in the universe. Use to create national estimates for total charges.

General Notes

DISCWT10 and DISCWTcharge10 are discharge-level weights. To produce national estimates, use DISCWT10 or DISCWTcharge10 to weight sampled discharges in the 10% NIS sample files to the discharges from all community hospitals located in the U.S.

- Prior to the 2000 NIS, DISCWT10 should be used to create all national estimates. DISCWTcharge10 is not available.
- Beginning with the 2000 NIS, DISCWT10 should be used to create national estimates for all analyses except those that involve total charges. DISCWTcharge10 should be used to create national estimates of total charges.

For detailed information about the development and use of discharge and hospital weights, see the year-specific report on the Design of the HCUP Nationwide Inpatient Sample.

Uniform Values				
Variable	Description	Value	Value Description	
DISCWTcharge10	10% sample weight to discharges in the universe. Use to create national estimates for total charges.	nnn.nnnn	10% sample weight to discharges in the universe. Use to create national estimates for total charges.	

State Specific Notes

DISPUB92 - Disposition of patient, UB92 coding

General Notes

DISPUB92 indicates the disposition of the patient at discharge and uses the same coding as the patient status data element on the UB-92 claim form.

DISPUB92 has more detailed categories for transfers and Home Health Care than the HCUP data element DISPUniform. DISP_X retains the disposition of patient as provided by the data source.

DISP_X is not available on the HCUP Nationwide Inpatient Sample (NIS).

	Uniform Values					
Variable	Description	Value	Value Description			
DISPUB92	Disposition of	1	Routine			
	patient, UB92 coding	2	Short-term hospital			
	Coding	3	Skilled Nursing Facility (SNF)			
		4	Intermediate Care Facility (ICF)			
		5	Another type of facility (for inpatient care)			
		6	Home Health Care (HHC)			
		7	Against medical advice (AMA)			
	8	Home IV provider				
		20	Died in hospital			
		40	Died at home			
		41	Died in a medical facility			
		42	Died, place unknown			
		50	Hospice - home			
		51	Hospice - medical facility			
		61	Within this institution to a Medicare- approved swing bed, beginning in 2000 data			
		71	Another institution for outpatient services, beginning in 2000 data			
		72	This institution for outpatient services, beginning in 2000 data			

Uniform Values							
Variable Description Value Value Description							
			Missing				
	.A Invalid						

State Specific Notes

Arizona

Arizona					
	DISP_X	DISPUB92			
Value	Description	Value	Description		
1	Home or self care (routine)	1	Routine		
2	Another short term general hospital	2	Short-term hospital		
3	Skilled nursing facility	3	Skilled nursing facility		
4	Intermediate care facility	4	Intermediate care facility		
5	Another type of institution	5	Another type of facility		
6	Home under care of organized home health service organization	6	Home health care		
7	Left against medical advice	7	Against medical advice		
8	Home under care of a Home IV provider	8	Home IV provider		
20	Expired	20	Died in the hospital		
		40	Died at home		
		41	Died in other medical facility		
		42	Died, place unknown		
		50	Hospice - home		
		51	Hospice - medical facility		
		61	Within this institution to a hospital-based Medicare approved swing bed		

			(Beginning in 2000)
		71	Another institution for outpatient services (Beginning in 2000)
		72	This institution for outpatient services (Beginning in 2000)
9	All Other		Missing
Blank	Missing	•	Wissing
Any values not documented by the data source		.A	Invalid
DISPUniform is coded directly from DISPUB92.			

Colorado

	Colorado				
	DISP_X		DISPUB92		
Value	Description	Value Description			
01	Home/Self- Care/Routine	1	Routine		
02	Short Term Hospital	2	Short-term hospital		
03	SNF	3	Skilled nursing facility		
04	Intermediate Care Facility	4	Intermediate care facility		
05	Other Facility	5	Another type of facility		
06	Home Health Service	6	Home health care		
07	Left Against Medical Advice	7	Against medical advice		
80	Home IV Service	8	Home IV provider		
20	Expired	20	Died in the hospital		
		40	Died at home		
		41	Died in other medical facility		
		42	Died, place unknown		
50	Hospice - Home	50	Hospice - home		
51	Hospice - Medical Facility	51	Hospice - medical facility		
		61	Within this institution to a hospital- based Medicare approved swing		

			bed (beginning in 2000)
		71	Another institution for outpatient services (beginning in 2000)
		72	This institution for outpatient services (beginning in 2000)
Blank	Missing		Missing
Any ot	Any other values .A Invalid		Invalid
DISPUniform is coded directly from DISPUB92.			

Connecticut

Connecticut					
	DISP_X		DISPUB92		
Value	Description	Value Description			
01	Home	1	Routine		
02	Other hospital	2	Short-term hospital		
03	Skilled nursing facility	3	Skilled nursing facility		
04	Intermediate care facility	4	Intermediate care facility		
05	Other facility	5	Another type of facility		
06	Home health care	6	Home health care		
07	Left AMA	7	Against medical advice		
08	Home IV therapy	8	Home IV provider		
20	Expired	20	Died in the hospital		
		40	Died at home		
		41	Died in other medical facility		
		42	Died, place unknown		
50	Hospice - home	50	Hospice - home		
51	Hospice - medical facility	51	Hospice - medical facility		
		61	Within this institution to a hospital- based Medicare approved swing bed (beginning in 2000)		
		71	Another institution for outpatient services (beginning in 2000)		
		72	This institution for outpatient services (beginning in 2000)		

Blank Missing		Missing		
Any values not documented by the data source	.A	Invalid		
DISPUniform is coded directly from DISPUB92.				

Florida

	Florida					
	DISP_X	DISPUB92				
Value	Description	Value	Description			
01, 1	Home	1	Routine			
02, 2	Short term general hospital	2	Short-term hospital			
03, 3	Skilled nursing facility	3	Skilled nursing facility			
04, 4	Intermediate care facility	4	Intermediate care facility			
05, 5	Another type of institution	5	Another type of facility			
06, 6	Home under care of home health care organization	6	Home health care			
07, 7	Left against medical advice	7	Against medical advice			
08, 8	Home on IV medications	8	Home IV provider			
20	Expired	20	Died in the hospital			
		40	Died at home			
		41	Died in other medical facility			
		42	Died, place unknown			
		50	Hospice - home			
		51	Hospice - medical facility			
		61	Within this institution to a hospital-based Medicare approved swing bed (added for 2000 data)			
		71	Another institution for outpatient services (added for 2000 data)			
		72	This institution for outpatient services (added for 2000 data)			

Blank Missing				
Any values not documented by the data source	.A	Invalid		
DISPUniform is coded directly from DISPUB92.				

Georgia

	Georgia					
	DISP_X	DISPUB92				
Value	alue Description		Description			
01, 1	Home or self care (routine)	1	Routine			
02, 2	Another short-term general hospital	2	Short-term hospital			
03, 3	Skilled nursing facility	3	Skilled nursing facility			
04, 4	Intermediate care facility	4	Intermediate care facility			
05, 5	Another type of institution	5	Another type of facility			
06, 6	Home health care	6	Home health care			
07, 7	Left against medical advice	7	Against medical advice			
08, 8	Home under care of Home IV Provider		Home IV provider			
20	Expired	20	Died in the hospital			
40	Expired at home	40	Died at home			
41	Expired in medical facility		Died in other medical facility			
42	Expired - place unknown	42	Died, place unknown			
50	Hospice - home (Beginning in 2000)	50	Hospice - home			
51	Hospice - medical facility (Beginning in 2000)	51	Hospice - medical facility			
61	Within this institution to a hospital-based Medicare approved swing bed (Beginning in 2000)	61	Within this institution to a hospital-based Medicare approved swing bed (Beginning in 2000)			
71	Another institution for outpatient services (Beginning in 2000)	71	Another institution for outpatient services (Beginning in 2000)			
72	This institution for outpatient services	72	This institution for outpatient services			

	(Beginning in 2000)		(Beginning in 2000)
0, 99, Blank	Unknown, Missing	-	Missing
Any values not documented by the data source		.A	Invalid
DISPUniform is coded directly from DISPUB92.			

Hawaii

Hawaii				
	DISP_X		DISPUB92	
Value	Description	Value	Description	
01	Home or self care (routine)	1	Routine	
02	Another short term general hospital	2	short-term hospital	
03	Skilled nursing facility	3	Skilled nursing facility	
04	Intermediate care facility	4	Intermediate care facility	
05	Another type of institution	5	another type of facility	
06	Home health service organization	6	Home health care	
07	Left against medical advice	7	Against medical advice	
08	Home under care of Home IV Provider	8	Home IV provider	
20	Expired	20	Died in the hospital	
40	Expired at home	40	Died at home	
41	Expired in medical facility	41	Died in other medical facility	
42	Expired - place unknown	42	Died, place unknown	
		50	Hospice - home	
		51	Hospice - medical facility	
		61	Within this institution to a hospital- based Medicare approved swing bed (Beginning in 2000)	
		71	Another institution for outpatient	

		services (Beginning in 2000)		
	72	This institution for outpatient services (Beginning in 2000)		
Blank Missing		Missing		
Any values not documented by the data source		Invalid		
DISPUniform is coded directly from DISPUB92.				

Iowa

	lowa				
DISP_X			DISPUB92		
Value	Description	Value	Description		
1	Home or self-care	1	Routine		
3	Other acute hospital	2	Short-term hospital		
4	SNF	3	Skilled nursing facility		
5	ICF	4	Intermediate care facility		
6	Other health care facility	5	Another type of facility		
2	Home health service	6	Home health care		
7	Against medical advice	7	Against medical advice		
		8	Home IV provider		
8	Expired	20	Died in the hospital		
		40	Died at home		
		41	Died in other medical facility		
		42	Died, place unknown		
		50	Hospice - home		
		51	Hospice - medical facility		
		61	Within this institution to a hospital- based Medicare approved swing bed (beginning in 2000)		
		71	Another institution for outpatient services (beginning in 2000)		
		72	This institution for outpatient services (beginning in 2000)		

Blank Missing		Missing	
Any values not documented by the data source		Invalid	
DISPUniform is coded directly from DISPUB92.			

Illinois

	Illinois				
DISP_X			DISPUB92		
Value	Description	Value Description			
01	Routine	1	Routine		
02	Short-term General Hospital	2	Short-term hospital		
03	Skilled nursing facility	3	Skilled nursing facility		
04	Intermediate care facility	4	Intermediate care facility		
05	Another type of institution	5	Another type of facility		
06	Home under care of organized home health service	5	Home health care		
07	Left against medical advice	7	Against medical advice		
08	Home under care of a Home IV drug therapy provider	8	Home under IV provider		
20	Expired	20	Died in the hospital		
		40	Died at home		
		41	Died in other medical facility		
		42	Died, place unknown		
50	Hospice - Home	50	Hospice - home		
51	Hospice - Medical Facility	51	Hospice - medical facility		
		61	Within this institution to a hospital-based Medicare approved swing bed (Beginning in 2000)		
		71	Another institution for outpatient services (Beginning		

			in 2000)
		72	This institution for outpatient services (Beginning in 2000)
Blank	Missing		Missing
Any values not documented by the data source		.A	Invalid
DISPUniform is coded directly from DISPUB92.			

Kansas

	Kansas				
DISP_X			DISPUB92		
Value	Description	Value	Description		
1	Routine	1	Routine		
31	Transfer: other hospital	2	Short-term hospital		
32	Transfer: skilled nursing facility	3	Skilled nursing facility		
33	Transfer: intermediate care facility	4	Intermediate care facility		
34	Transfer: Rehabilitation center				
35	Transfer: Psychiatric facility	5	Another type of facility		
37	Transfer: Custodial				
38	Transfer: Other				
36	Transfer: Organized home care	6	Home health care		
2	Against medical advice	7	Against medical advice		
		8	Home IV provider		
4	Expired (no autopsy)				
5	Expired (autopsy)				
6	Coroner's case (no autopsy)	20	Died in the hospital		
7	Coroner's case (autopsy)				
		40	Died at home		

		41	Died in other medical facility	
		42	Died, place unknown	
		50	Hospice - home	
		51	Hospice - medical facility	
		61	Within this institution to a hospital-based Medicare approved swing bed (Beginning in 2000)	
		71	Another institution for outpatient services (Beginning in 2000)	
		72	This institution for outpatient services (Beginning in 2000)	
Blank	Missing		Missing	
Any values not documented by the data source		.A	Invalid	

Information on the disposition of the patient was provided in two fields: discharge status and transfer destination. If the discharge status indicated a transfer, then DISP_X is assigned using both the discharge status (value 3) and the transfer destination (values 1-8) to create a two-digit value 31-38. For non-transfers, DISP_X contains one digit discharge status.

DISPUniform is coded directly from DISPUB92.

Kentucky

	Kentucky			
DISP_X			DISPUB92	
Value	Description	Value	Description	
01	Routine (home/self-care)	1	Routine	
02	Short-term hospital	2	Short-term hospital	
03	Skilled nursing facility	3	Skilled nursing facility	
04	Intermediate care facility	4	Intermediate care facility	
05	Another type of facility	5	Another type of facility	
06	Home health care	6	Home health care	
07	Against medical advice	7	Against medical advice	
08	Home IV provider	8	Home IV provider	
20, 21	Expired	20	Died in the hospital	
40	Died at home	40	Died at home	

41	Died in other medical facility	41	Died in other medical facility
42	Died, place unknown	42	Died, place unknown
50	Hospice - home	50	Hospice - home
51	Hospice - medical facility	51	Hospice - medical facility
61	Within this institution to a hospital-based Medicare approved swing bed	61	Within this institution to a hospital-based Medicare approved swing bed
71	Another institution for outpatient services	71	Another institution for outpatient services
72	This institution for outpatient services	72	This institution for outpatient services
No longer covered by Medicaid, transferred to another category of service, Missing			Missing
Any val data so	ues not documented by the urce	.A	Invalid
DISPUniform is coded directly from DISPUB92.			

Massachusetts

	Massachusetts			
DISP_X		DISPUB92		
Value	Description	Value Description		
01	Home (routine)			
14	Rest Home (Beginning in 1998)	1	Routine	
15	Shelter (Beginning in 1999)			
02	Another short-term general hospital	2	Short-term hospital	
03	Skilled nursing facility	3	Skilled nursing facility	
04	Intermediate care facility	4	Intermediate care facility	
05	Further care - Inpatient or OPD	5	Another type of facility	
10	Chronic hospital			

11	Mental health facility			
13	Rehab hospital			
14	Rest Home (Prior to 1998)			
06	Home under care of home health agency	6	Home health care	
07	Left against medical advice	7	Against medical advice	
08	Home for IV drug therapy	8	Home IV provider	
20	Expired	20	Died in the hospital	
		40	Died at home	
		41	Died in other medical facility	
		42	Died, place unknown	
50	Hospice - home	50	Hospice - home	
51	Hospice - medical facility	51	Hospice - medical facility	
		61	Within this institution to a hospital-based Medicare approved swing bed (beginning in 2000)	
		71	Another institution for outpatient services (beginning in 2000)	
		72	This institution for outpatient services (beginning in 2000)	
12	Discharge Other			
00, Blank	Missing	-	Missing	
09	Not used (Beginning in 1999)			
Any values not documented by the data source		.A	Invalid	
DISPUniform is coded directly from DISPUB92.				

Maine

Maine					
(Valid beginning in 2000)					
	DISP_X	DISPUB92			
Value	Description	Value	Description		
01	Home/Self- Care/Routine	1	Routine		
02	Short Term Hospital	2	Short-term hospital		
03	SNF	3	Skilled nursing facility		
04	Intermediate Care Facility	4	Intermediate care facility		
05	Other Facility	5	Another type of facility		
06	Home Health Service	6	Home health care		
07	Left Against Medical Advice	7	Against medical advice		
80	Home IV Service	8	Home IV provider		
20	Expired	20	Died in the hospital		
40	Expired at home (hospice care)	40	Died at home		
41	Expired in medical facility (hospice care)	41	Died in other medical facility		
42	Expired - place unknown (hospice care)	42	Died, place unknown		
50	Hospice - Home	50	Hospice - home		
51	Hospice - Medical Facility	51	Hospice - medical facility		
		61	Within this institution to a hospital-based Medicare approved swing bed (beginning in 2000)		
		71	Another institution for outpatient services (beginning in 2000)		
		72	This institution for outpatient services (beginning in 2000)		
Blank	Missing		Missing		
Any va	alues not	.A	Invalid		

documented by the data source			
DISPUniform is coded directly from DISPUB92.			

Maine

Maine				
(Valid in 1999)				
DISP_X DISPUB92			DISPUB92	
Value	Description	Value	Description	
1	Home	1	Routine	
7	Boarding home		rtodino	
3	Another acute care hospital	2	Short-term hospital	
4	Skilled Nursing Facility	3	Skilled Nursing Facility	
5	Intermediate care facility	4	Intermediate care facility	
6	Another health care facility	5	Another type of facility	
8	Home health care agency	6	Home health care	
2	Left against medical advice	7	Against medical advice	
		8	Home IV provider	
9	Died	20	Died in the hospital	
		40	Died at home	
		41	Died in other medical facility	
		42	Died, place unknown	
		50	Hospice - home	
		51	Hospice - medical facility	
Blank	Missing	-	Missing	
	Any values not documented by the data source			
DISPUr	niform is coded directly from D	ISPUB9	2.	

Missouri

Missouri				
	DISP_X DISPUB92			
Value	Value Description Value Description			

01	Home/self	1	Routine
02	Another acute care hospital	2	Short-term hospital
03	Skilled nursing facility	3	Skilled nursing facility
04	Intermediate care facility	4	Intermediate care facility
05	Another type of institution		
61	Hospital-based swing bed this institution (prior to 2000)		
71	Another institution for outpatient services (prior to 2000)	5	Another type of facility
72	This institution for outpatient services (prior to 2000)		
06	Home health care	6	Home health care
07	Left against medical advice	7	Against medical advice
80	Home IV Service	8	Home IV provider
20	Expired	20	Died in the hospital
40	Expired at home (hospice care)	40	Died at home
41	Expired in medical facility (hospice care)	41	Died in other medical facility
42	Expired - place unknown (hospice care)	42	Died, place unknown
50	Hospice - Home	50	Hospice - home
51	Hospice - Medical Facility	51	Hospice - medical facility
61	Within this institution to a hospital-based Medicare approved swing bed (beginning in 2000)	61	Within this institution to a hospital-based Medicare approved swing bed (beginning in 2000)
71	Another institution for outpatient services (beginning in 2000)	71	Another institution for outpatient services (beginning in 2000)
72	This institution for outpatient services (beginning in 2000)	72	This institution for outpatient services (beginning in 2000)
99, Blank	Unknown, Missing		Missing

Any values not documented by the data source	.A	Invalid
DISPUniform is coded directly from	n DISP	UB92.

North Carolina

North Carolina				
	DISP_X	DISPUB92		
Value	Description	Value	Description	
1	Home or self-care (Routine)	1	Routine	
2	Another short term general hospital	2	Short-term hospital	
3	Skilled nursing facility	3	Skilled nursing facility	
4	Intermediate care facility	4	Intermediate care facility	
5	Another type of institution	5	Another type of facility	
6	Home under care of home health care organization	6	Home health care	
7	Left against medical advice	7	Against medical advice	
8	Home under care of Home IV provider	8	Home IV provider	
20	Expired	20	Died in the hospital	
40	Died at home	40	Died at home	
41	Died in other medical facility	41	Died in other medical facility	
42	Died, place unknown	42	Died, place unknown	
		50	Hospice - home	
		51	Hospice - medical facility	
		61	Within this institution to a hospital-based Medicare approved swing bed	
		71	Another institution for outpatient services	
		72	This institution for outpatient services	
9, 10, 50	Documented by		Missing	

51, Blank	source as unknown values		
Any value the data s	s not documented by ource	.A	Invalid
DISPUniform is coded directly from DISPUB92.			

New Jersey

	New Jersey				
	DISP_X		DISPUB92		
Value	Description	Value	Description		
01	Home or self care (routine)	1	Routine		
02	Another short term general hospital	2	Short-term hospital		
03	Skilled nursing facility	3	Skilled nursing facility		
04	Intermediate care facility	4	Intermediate care facility		
05	Another type of institution	5	Another type of facility		
06	Home under care of organized HHA	6	Home health care		
07	Left against medical advice	7	Against medical advice		
08	Home with IV therapy	8	Home IV provider		
20	Expired, no autopsy	20	Died in the hospital		
21	Expired, with autopsy		Died in the Hoopital		
		40	Died at home		
		41	Died in other medical facility		
		42	Died, place unknown		
50	Hospice - home	50	Hospice - home		
51	Hospice - medical facility	51	Hospice - medical facility		
61	Within this institution to a hospital-based Medicare approved swing bed	61	Within this institution to a hospital-based Medicare approved swing bed (added for 2000 data)		
71	Another institution for outpatient services	71	Another institution for outpatient services (added for 2000 data)		

11 / 1	This institution for outpatient services	72	This institution for outpatient services (added for 2000 data)
Blank	Missing		Missing
Any values not documented by the data source		.A	Invalid
DISPUniform is coded directly from DISPUB92.			

New York

New York			
	DISP_X		DISPUB92
Value	Description	Value	Description
01	Home or self care (routine)		
90	Plan of care completed (SASD Only)	1	Routine
91	Pre-admission (SASD Only)		
02	Another acute general hospital		
09	Admitted as an inpatient to this hospital (SASD only)		Short-term
10	Neonate discharged another hospital (Inpatient data only)	2	hospital
13	Another hospital for tertiary aftercare (Inpatient data only)		
03	Skilled nursing facility	3	Skilled nursing facility
04	Intermediate care facility		Intermediate care facility
12	Intermediate care facilities for the mentally retarded	4	
05	Another type of institution		
11	Short-term psychiatric, chronic hospital or long-term specialty hospital providing for psychiatric illnesses	5	Another type of facility
14	Domiciliary Care Facility (Inpatient data only)		
06	Home under care of organized home health service organization	6	Home health care
07	Left against medical advice	7	Against medical advice
08	Home under care of a Home IV	8	Home IV

	provider (Inpatient data only)		provider	
20	Expired	20	Died in the hospital	
40	Expired at home	40	Died at home	
41	Expired in a medical facility	41	Died in other medical facility	
42	Expired, place unknown	42	Died, place unknown	
50	Hospice - home	50	Hospice - home	
51	Hospice - medical facility	51	Hospice - medical facility	
61	Transfer within institution to a Medicare approved swing bed	61	Within this institution to a hospital-based Medicare approved swing bed (added for 2000 data)	
71	Discharged/transferred/referred to another institution for outpatient services as specified by the discharge plan of care	71	Another institution for outpatient services (added for 2000 data)	
72	Discharged/transferred/referred to this institution for outpatient services as specified by the discharge plan of care	72	This institution for outpatient services (added for 2000 data)	
Blank	Blank Missing		Missing	
	Any values not documented by the data source			
DISPL	DISPUniform is coded directly from DISPUB92.			

Oregon

Oregon			
DISP_X DISPUB92			DISPUB92
Value	Description	Value Description	
01	Routine discharge (to home of self care)	1	Routine
10	Discharged - no longer covered by Medicaid		Nouthe

02	Another short term hospital	2	Short-term hospital		
03	Skilled nursing facility	3	Skilled nursing facility		
04	Intermediate care facility	4	Intermediate care facility		
05	Another type of institution	5	Another type of facility		
11	Transferred to another category of service		A trouter type of facility		
06	Home health care service	6	Home health care		
07	Left against medical advice	7	Against medical advice		
08	Discharged home under care of a Home IV Service	8	Home IV provider		
20	Expired	20	Died in the hospital		
40	Expired at home	40	Died at home		
41	Expired in medical facility	41	Died in other medical facility		
42	Expired - place unknown	42	Died, place unknown		
50	Hospice - Home	50	Hospice - home		
51	Hospice - Medical Facility	51	Hospice - medical facility		
61	Within this institution to a hospital-based Medicare approved swing bed	61	Within this institution to a hospital-based Medicare approved swing bed (Beginning in 2000)		
		71	Another institution for outpatient services (Beginning in 2000)		
		72	This institution for outpatient services (Beginning in 2000)		
00, Blank	Missing	-	Missing		
	lues not documented by a source	.A	Invalid		
DISPU	DISPUniform is coded directly from DISPUB92.				

Pennsylvania

Pennsylvania					
	DISP_X	DISPUB92			
Value	Description	Value	Description		
01	Home or self care (routine discharge)	1	Routine		
02	Short-term general hospital	2	Short-term hospital		
03	Skilled nursing facility	3	Skilled nursing facility		
04	Intermediate care facility	4	Intermediate care facility		
05	Another type of institution	5	Another type of facility		
06	Home under care of home health service organization	6	Home health care		
07	Left against medical advice	7	Against medical advice		
08	Home under care of home IV provider	8	Home IV provider		
20	Expired	20	Died in the hospital		
		40	Died at home		
		41	Died in other medical facility		
		42	Died, place unknown		
		50	Hospice - home		
		51	Hospice - medical facility		
		61	Within this institution to a hospital-based Medicare approved swing bed (Beginning in 2000)		
		71	Another institution for outpatient services (Beginning in 2000)		
		72	This institution for outpatient services (Beginning in 2000)		
0, 00, Blank	Unknown, Missing		Missing		
	ues not documented data source	.A	Invalid		

DISPUniform is coded directly from DISPUB92.

South Carolina

	South Carolina				
	DISP_X		DISPUB92		
Value	Description	Value	Description		
1, 01	Home or self care (routine)	1	Routine		
2, 02	Another short term general hospital				
9, 09	Admitted as an inpatient to this hospital (Invalid for the SID, valid for the SASD and SEDD)	2	Short-term hospital		
3, 03	Skilled nursing facility	3	Skilled nursing facility		
4, 04	Intermediate care facility	4	Intermediate care facility		
5, 05	Another type of institution	5	Another type of facility		
6, 06	Home under care of home health service organization	6	Home health care		
7, 07	Left against medical advice	7	Against medical advice		
8, 08	Home under care of Home IV Provider	8	Home IV provider		
20	Expired	20	Died in the hospital		
40	Expired at home	40	Died at home		
41	Expired in medical facility	41	Died in other medical facility		
42	Expired, place unknown	42	Died, place unknown		
50	Hospice - home	50	Hospice - home		
51	Hospice - medical facility	51	Hospice - medical facility		
		61	Within this institution to a hospital-based Medicare approved swing bed (added for 2000 data)		
		71	Another institution for outpatient services (added for 2000 data)		
		72	This institution for		

			outpatient services (added for 2000 data)
0, 00, Blank	Missing		Missing
Any values not documented by the data source		.A	Invalid
DISPUniform is coded directly from DISPUB92.			

Tennessee

	Tennessee			
	DISP_X		DISPUB92	
Value	Description	Value	Description	
01	Home or self care (routine)	1	Routine	
02	Another short term general hospital			
09 (SASD Only)	Admitted as an inpatient to this hospital	2	Short-term hospital	
03	Skilled nursing facility	3	Skilled nursing facility	
04	Intermediate care facility	4	Intermediate care facility	
05	Another type of institution			
10	Discharged/transferred to a mental health center	5	Another type of facility	
06	Home under care of organized home health service organization		Home health care	
07	Left against medical advice	7	Against medical advice	
08	Home under care of a Home IV Provider	8	Home IV provider	
20	Expired	20	Died in the hospital	
	Died at home (Beginning in 2000)	40	Died at home	
	Died in other medical facility (Beginning in 2000)		Died in other medical facility	
	Died, place unknown (Beginning in 2000)		Died, place unknown	
	Hospice - home (Beginning in 2000)	50	Hospice - home	

	Hospice - medical facility (Beginning in 2000)	51	Hospice - medical facility
		61	Within this institution to a hospital-based Medicare approved swing bed (added for 2000 data)
		71	Another institution for outpatient services (added for 2000 data)
		72	This institution for outpatient services (added for 2000 data)
Blank	Missing	-	Missing
Any values not documented by the data source		.A	Invalid
DISPUniform is coded directly from DISPUB92.			

Texas

	Texas				
	DISP_X		DISPUB92		
Value	Description	Value	Description		
1	Home or Self-care (routine discharge)	1	Routine		
2	Short-term general hospital	2	Short-term hospital		
3	Skilled nursing facility	3	Skilled nursing facility		
4	Intermediate care facility	4	Intermediate care facility		
5	Other inpatient care facility	5	Another type of facility		
6	Home health service	6	Home health care		
7	Against medical advice	7	Against medical advice		
8	Home IV provider	8	Home IV provider		
20	Expired	20	Died in the hospital		
		40	Died at home		
41	Expired in other medical facility	41	Died in other medical facility		
42	Expired, place unknown	42	Died, place unknown		
50	Hospice - home	50	Hospice - home		

51	Hospice - medical facility	51	Hospice - medical facility	
61	Within this institution to a hospital-based Medicare approved swing bed	61	Within this institution to a hospital-based Medicare approved swing bed	
71	Another institution for outpatient services	71	Another institution for outpatient services	
72	This institution for outpatient services	72	This institution for outpatient services	
Blank	Missing	-	Missing	
" * " or any values not documented by the data source .A Invalid				
DISPUniform is coded directly from DISPUB92.				

Utah

	Utah					
	DISP_X	DISPUB92				
Value	Description	Value	Description			
01	Discharge to home or self care (routine)	1	Routine			
02	Another short term hospital	2	Short-term hospital			
03	Skilled nursing facility	3	Skilled nursing facility			
04	Intermediate care facility	4	Intermediate care facility			
05	Another type of institution	5	Another type of facility			
06	Home under care of organized home health service organization	6	Home health care			
07	Left against medical advice	7	Against medical advice			
08	Discharged home under care of a home IV provider	8	Home IV provider			
20	Expired	20	Died in the hospital			
40	Expired at home	40	Died at home			
41	Expired in a medical facility	41	Died in other medical facility			
42	Expired - place	42	Died, place unknown			

	unknown		
		50	Hospice - home
		51	Hospice - medical facility
		61	Within this institution to a hospital-based Medicare approved swing bed (Beginning in 2000)
		71	Another institution for outpatient services (Beginning in 2000)
		72	This institution for outpatient services (Beginning in 2000)
09, 00, Blank	Unknown, Missing	-	Missing
Any valu	ues not documented by source	.A	Invalid
DISPUniform is coded directly from DISPUB92.			

Virginia

	••				
	Virginia				
	DISP_X		DISPUB92		
Value	Description	Value	Description		
01	Home or self care	1	Routine		
02	Another hospital	2	Short-term hospital		
03	Skilled nursing facility	3	Skilled nursing facility		
04	Intermediate care facility	4	Intermediate care facility		
05	Another type of institution	5	Another type of facility		
06	Home under care of home health service organization	6	Home health care		
07	Against medical advice	7	Against medical advice		
08	Home under IV provider	8	Home IV provider		
20	Expired	20	Died in the hospital		
		40	Died at home		
		41	Died in other medical facility		

		42	Died, place unknown
		50	Hospice - home
		51	Hospice - medical facility
		61	Within this institution to a hospital-based Medicare approved swing bed (added for 2000 data)
		71	Another institution for outpatient services (added for 2000 data)
		72	This institution for outpatient services (added for 2000 data)
Blank	Missing		Missing
Any values not documented by the data source		.A	Invalid
DISPUniform is coded directly from DISPUB92.			

Washington

	W	/ashin	gton	
	DISP_X	DISPUB92		
Value	Description	Value	Description	
01	Home or self care (routine discharge)	1	Routine	
02	Short term general hospital	2	Short-term hospital	
03	Skilled nursing facility	3	Skilled nursing facility	
04	Intermediate care facility	4	Intermediate care facility	
05	Another type of institution	5	Another type of facility	
06	Home under care of home health service organization	6	Home health care	
07	Left against medical advice	7	Against medical advice	
08	Home under care of a home IV provider	8	Home IV provider	
20	Expired	20	Died in the hospital	
		40	Died at home	
		41	Died in other medical facility	

		42	Died, place unknown
50	Hospice - Home	50	Hospice - home
51	Hospice - Medical Facility	51	Hospice - medical facility
		61	Within this institution to a hospital-based Medicare approved swing bed (Beginning in 2000)
		71	Another institution for outpatient services (Beginning in 2000)
		72	This institution for outpatient services (Beginning in 2000)
Blank	Missing		Missing
Any values not documented by the data source		.A	Invalid
DISPUniform is coded directly from DISPUB92.			

Wisconsin

	Wisconsin			
DISP_X			DISPUB92	
Value	Description	Value	Description	
1, 01	Home or self care (routine)	1	Routine	
2, 02	Short-term general hospital	2	Short-term hospital	
3, 03	Skilled nursing facility	3	Skilled nursing facility	
4, 04	Intermediate care facility	4	Intermediate care facility	
5, 05	Another type of facility	5	Another type of facility	
6, 06	Home health care	6	Home health care	
7, 07	Against medical advice	7	Against medical advice	
8, 08	Home intravenous provider	8	Home IV provider	
20	Died	20	Died in the hospital	
		40	Died at home	

		41	Died in other medical facility
		42	Died, place unknown
50	Hospice - Home	50	Hospice - Home
51	Hospice - Medical facility	51	Hospice - Medical facility
		61	Within this institution to a hospital- based Medicare approved swing bed (added for 2000 data)
		71	Another institution for outpatient services (added for 2000 data)
		72	This institution for outpatient services (added for 2000 data)
Blank	Missing	-	Missing
Any values not documented by the data source .A		.A	Invalid
DISPUniform is coded directly from DISPUB92.			

West Virginia

	West \	/irginia	
DISP_X			DISPUB92
Value	Description	Value	Description
01	Home/Self-Care/Routine	1	Routine
02	Sort Term Hospital	2	Short-term hospital
03	Skilled Nursing Facility	3	Skilled nursing facility
04	Intermediate Care Facility	4	Intermediate care facility
05	Other facility	5	Another type of facility
06	Home Health Service	6	Home health care
07	Left Against Medical Advice	7	Against medical advice
80	Home IV Service	8	Home IV provider
20	Expired	20	Died in the hospital
40	Expired at home (hospice care)	40	Died at home
41	Expired in medical facility (hospice care)	41	Died in other medical facility
42	Expired - place unknown (hospice care)	42	Died, place unknown

50	Hospice - Home	50	Hospice - home
51	Hospice - Medical Facility	51	Hospice - medical facility
61	Within this institution to a hospital-based Medicare approved swing bed	61	Within this institution to a hospital-based Medicare approved swing bed
71	Another institution for outpatient services	71	Another institution for outpatient services
72	This institution for outpatient services	72	This institution for outpatient services
Blank	k Missing		Missing
Any values not documented by the data source .A Invalid			
DISUniform is coded directly form DISPUB92.			

DISPUniform - Disposition of patient, uniform coding

General Notes

DISPUniform indicates the disposition of the patient at discharge (routine, transfer to another hospital, died, etc.). To ensure uniformity of coding across data sources, DISPUniform combines detailed categories in the more general groups. For example,

- Transfers to facilities other than short-term hospitals (skilled nursing facilities, intermediate care facilities, and other type of facilities) are coded as DISPUniform = 5.
- Transfers to Home Health Care (including IV providers and Hospice home care) are coded as DISPUniform = 6.

Patients that died outside of the hospital are coded as missing (DISPUniform = .).

DISPUB92 has more detailed categories for transfers and Home Health Care and distinguishes patients that died in the hospital from those that died outside of the hospital. DISP_X retains the disposition of patient as provided by the data source.

In the 1998-2000 HCUP data files, missing values of DISPUniform were erroneously set to invalid (.A).

DISP X is not available on the HCUP Nationwide Inpatient Sample (NIS).

Uniform Values			
Variable	Description	Value	Value Description
DISPUniform	Disposition of patient, uniform coding	1	Routine
		2	Transfer to short-term hospital
		5	Transfer other: includes Skilled Nursing Facility (SNF), Intermediate Care Facility (ICF), and another type of facility
		6	Home Health Care (HHC)
		7	Against medical advice (AMA)
		20	Died in hospital

-	Missing
.A	Invalid

State Specific Notes

California

	Calif	ornia	
DISP_X			DISPUniform
Value	Description	Value Description	
01	Routine (Home)	1	Routine
09	Prison/Jail	I	Routine
02	Acute care (within this hospital)	2	Transfer to short-term
05	Acute care (another hospital)		hospital
03	Other care (within this hospital)		
04	Skilled nursing/Intermediate care (within this hospital)		Transfer other: includes skilled nursing facility, intermediate care facility,
06	Other care (another hospital)	5	
07	Skilled nursing/Intermediate care (another hospital)		and other types of facility
80	Residential care facility		
13	Other (another hospital)		
12	Home Health Services	6	Home health care
10	Against medical advice	7	Against medical advice
11	Died	20	Died in hospital
00, Blank	Missing		Missing (includes died outside of hospital)
	lues not documented by a source	.A	Invalid
There	is not enough detail in the o	oding c	of DISP_X to code the

There is not enough detail in the coding of DISP_X to code the HCUP variable DISPUB92.

Maryland

		Maryla	ınd	
	DISP_X		DISPUniform	
Value	Description	Value Description		
01	Home or self-care	1	Routine	
05	Acute care general hospital	2	Transfer to short-term hospital	
06	Other health care facility			
10	Rehabilitation facility			
11	Rehabilitation unit of other hospital			
12	On-site distinct rehabilitation unit		Transfer other: includes skilled	
13	Transfer to nursing facility	5	nursing facility, intermediate care facility, and other types of	
14	On-site psychiatric unit (inpatient only)		facility	
15	On-site sub-acute unit (inpatient only)			
16	Other sub-acute care facility (inpatient only)			
03	Home health care	6	Home health care	
08	Left against medical advice	7	Against medical advice	
07	Died	20	Died	
09, 99, Blank	Unknown	-	Missing (includes died outside of hospital)	
02	Do not use			
04	Do not use	.A	Invalid	
Any values not documented by the data source				

There is not enough detail in the coding of DISP_X to code the HCUP variable DISPUB92.

DQTR - Discharge quarter

General Notes

Discharge quarter (DQTR) is derived from either the month of the discharge date or the supplied discharge quarter. If both of those fields are invalid or missing, DQTR is set to zero. For these cases, a temporary discharge quarter = 3 was used for the DRG grouper and ICD-9-CM verification routines because these algorithms require a valid discharge quarter.

Uniform Values			
Variable	Description	Value	Value Description
DQTR	Discharge quarter	1	First quarter (Jan - Mar)
		2	Second quarter (Apr - Jun)
		3	Third quarter (Jul - Sep)
		4	Fourth quarter (Oct - Dec)
		0	Missing or invalid

State Specific Notes

Florida

Beginning in 1997, Florida did not supply discharge date. DQTR was assigned from the discharge quarter provided by Florida.

DRG - DRG in use on discharge date

General Notes

The Diagnosis Related Group (DRG) appropriate for the date of discharge is assigned by the HCFA DRG Grouper algorithm during HCUP processing.

Diagnosis and Procedures Used for DRG Assignment

Beginning in the 1996 data, the DRG grouper can handle a maximum of 50 diagnosis and 50 procedure codes. Only diagnoses and procedures that are valid on the date of discharge are used by the grouper for DRG assignment.

In the 1988-1995 data, the DRG grouper cannot handle more than 15 diagnoses and 15 procedures. Therefore, the following rules were used when more than 15 diagnoses or 15 procedures were available:

- the principal diagnosis/procedure (regardless of validity) is retained in DX1/PR1. No secondaries are shifted into the principal position.
- the first 14 valid (by HCUP standards) additional diagnosis or procedure codes are passed to the HCFA DRG grouper.

Different Definitions of Diagnosis and Procedure Validity

HCUP validation of diagnosis and procedure codes allows a window of time around the official ICD-9-CM coding changes (usually October 1), for anticipation of or lags in response to official ICD-9-CM coding changes. During the 1988-1997 HCUP data processing, a six-month window (three months before and three months after) was allowed. Beginning in the 1998 data, a year window (six months before and six months after) was allowed.

The DRG Grouper rules differ in two ways:

- diagnosis and procedure codes must be valid on the date of discharge to be used for assigning the DRG; and
- some valid diagnoses (E-codes) are ruled by the DRG Grouper to be invalid if entered as a principal diagnosis.

This inconsistency between the definition of a valid diagnosis or procedure is obvious when a discharge has a valid principal diagnosis under HCUP standards, but the assigned DRG is 470 "Ungroupable." Consider a discharge with DX1="V300" on October 1, 1989. The diagnosis code "V300" is considered valid by HCUP standards because until September 30, 1989 "V300" is a valid ICD-9-CM code. The DRG Grouper does not recognize the "V300" code on

October 1, 1989 and therefore groups the record to "Ungroupable," DRG=470 and MDC=0.

Changes in DRG Grouper Logic

Until the eighth DRG version (before October 1, 1990), the first step in the determination of the DRG had been the assignment of the appropriate MDC based on the principal diagnosis. Beginning in October 1990, there are two types of exceptions:

- The principal diagnosis is not the initial data element in DRG assignment when the initial step in DRG assignment is based on a procedure. If a patient has a liver transplant (DRG 480), a bone marrow transplant (DRG 481) or tracheostomy (DRG 482 and 483), then the patient is assigned to these DRGs independent of the MDC assigned from the principal diagnosis.
- Assignment to MDC 24 (multiple trauma) and MDC 25 (patients with HIV infection) is based on BOTH principal diagnosis and procedure.

The Need for a Valid Discharge Date

The DRG grouper needs a valid discharge date because DRG versions change at specific points in time. If the discharge date was invalid or not available from a data source, a temporary discharge date (for use only by the DRG grouper) was created based on the discharge quarter and year according to the following rules:

- Discharge year (YEAR) is always nonmissing.
- Discharge quarter (DQTR) ranges from zero to 4, where zero indicates that the quarter was missing or invalid.

Discharge Quarter (DQTR)	Temporary Date (MM/DD/YY) passed to DRG Grouper	
1	01/01/YY	
2	04/01/YY	
3	07/01/YY	
4	10/01/YY	
0	07/01/YY	

Labels

Labels for the DRGs are provided as an ASCII file in HCUP Tools: Labels and Formats.

Uniform Values			
Variable Description Value Value Description		Value Description	
DRG	DRG in use on discharge date	nnn	DRG value

State Specific Notes

California

One discharge in 1991 with an invalid principal diagnosis code (DXV1=1) and at least one non-missing secondary diagnosis code (DX2, etc.) had the incorrect DRG and MDC assigned because of an error in HCUP processing. The DRG should have been 470; and the MDC should have been equal to 0.

No other years are affected.

Massachusetts

Some 1989-1990 discharges with a missing principal diagnosis code (DX1="") and at least one non-missing secondary diagnosis code (DX2, etc.) have the incorrect DRG and MDC assigned because of an error in HCUP processing. The DRG should be 470; and the MDC should be equal to 0. The following number of records are affected: 1 record in 1989 and 1 record in 1990.

Some 1988-1991 discharges with an invalid principal diagnosis code (DXV1=1) and at least one non-missing secondary diagnosis code (DX2, etc.) have the incorrect DRG and MDC assigned because of an error in HCUP processing. The DRG should be 470; and the MDC should be equal to 0. The following number of records are affected:

- for 1988, 34 records;
- for 1989, 30 records;
- for 1990, 44 records; and
- for 1991, 33 records.

Beginning with 1992 discharges, DRG and MDC were processed correctly.

Washington

Some 1988-1992 discharges with an invalid principal diagnosis code (DXV1 = 1) and at least one non-missing secondary diagnosis code (DX2, etc.) have the incorrect DRG and MDC assigned because of an error in HCUP processing. The

DRG should be 470; and the MDC should be equal to 0. The following number of records are affected:

- for 1988, 184 records;
- for 1989, 68 records;
- for 1990, 13 records;
- for 1991, 1 record; and
- for 1992, 1 record.

Beginning with 1993 discharges, DRG and MDC were processed correctly.

Wisconsin

According to source documentation, the principal and secondary procedures for one hospital (DSHOSPID="056" and HOSPID=55155) are incorrect in the <u>fourth quarter of 1997</u>. System problems at the hospital caused the last procedure coded on the medical record to be stored as the principal procedure. No secondary procedures were recorded. This affects the DRG, DRG10, MDC, and MDC10 assignment.

Some 1989-1992 discharges with an invalid principal diagnosis code (DXV1=1) and at least one non-missing secondary diagnosis code (DX2, etc.) have the incorrect DRG and MDC assigned because of an error in HCUP processing. The DRG should be 470; and the MDC should be equal to 0. The following number of records are affected:

- for 1989, 23 records;
- for 1990, 4 records;
- for 1991, 1 record; and
- for 1992, 10 records.

Beginning with 1993 discharges, DRG and MDC were processed correctly.

DRG18 - DRG, Version 18

General Notes

The Diagnosis Related Group, Version 18 (DRG18) is assigned by the HCFA DRG Grouper algorithm during HCUP processing.

Diagnosis and Procedures Used for DRG Assignment

Beginning in the 1996 data, the DRG grouper can handle a maximum of 50 diagnosis and 50 procedure codes. Only diagnoses and procedure that are valid on the date of discharge are used by the grouper for DRG assignment.

In the 1988-1995 data, the DRG grouper cannot handle more than 15 diagnoses and 15 procedures. Therefore, the following rules were used when more than 15 diagnoses or 15 procedures were available:

- the principal diagnosis/procedure (regardless of validity) is retained in DX1/PR1. No secondaries are shifted into the principal position.
- the first 14 valid (by HCUP standards) additional diagnosis or procedure codes are passed to the HCFA DRG grouper and 3M Mapper software.

Logically Mapping ICD-9-CM Codes for DRG Version 18

The diagnoses or procedures selected by the above rules are first passed to the 3M Mapper software so that each ICD-9-CM code can be logically translated into codes in effect during fiscal year 2000, the period associated with DRG Version 18. The translated codes are then passed to the DRG Version 18 HCFA Grouper software.

Different Definitions of Diagnosis and Procedure Validity

HCUP validation of diagnosis and procedure codes allows a window of time around the official ICD-9-CM coding changes (usually October 1), for anticipation of or lags in response to official ICD-9-CM coding changes. During the 1988-1997 HCUP data processing, a six-month window (three months before and three months after) was allowed. Beginning in the 1998 data, a year window (six months before and six months after) was allowed.

The DRG Grouper rules differ in two ways:

- diagnosis and procedure codes must be valid on the date of discharge to be used for assigning the DRG; and
- some valid diagnoses (E-codes) are ruled by the DRG Grouper to be invalid if entered as a principal diagnosis.

This inconsistency between the definition of a valid diagnosis or procedure is obvious when a discharge has a valid principal diagnosis under HCUP standards, but the assigned DRG is 470 "Ungroupable." Consider a discharge with DX1="V300" on October 1, 1989. The diagnosis code "V300" is considered valid by HCUP standards because until September 30, 1989 "V300" is a valid ICD-9-CM code. The DRG Grouper does not recognize the "V300" code on October 1, 1989 and therefore groups the record to "Ungroupable," DRG=470 and MDC=0.

Changes in DRG Grouper Logic

Until the eighth version (before October 1, 1990), the first step in the determination of the DRG had been the assignment of the appropriate MDC based on the principal diagnosis. Beginning in October 1990, there are two types of exceptions:

- The principal diagnosis is not the initial data element in DRG assignment when the initial step in DRG assignment is based on a procedure. If a patient has a liver transplant (DRG 480), a bone marrow transplant (DRG 481) or tracheostomy (DRG 482 and 483), then the patient is assigned to these DRGs independent of the MDC assigned from the principal diagnosis.
- Assignment to MDC 24 (multiple trauma) and MDC 25 (patients with HIV infection) is based on BOTH principal diagnosis and procedure.

Labels

Labels for the DRGs are provided as an ASCII file in HCUP Tools: Labels and Formats.

Formats

A format to label DRG18 is documented in HCUP Tools: Variable Labels and Formats.

Uniform Values			
Variable Description Value Value Description		Value Description	
DRG18	DRG, Version 18	nnn	DRG value

State Specific Notes

None

DRGVER - DRG grouper version used on discharge date

General Notes

The DRG Grouper Version (DRGVER) is assigned by the HCFA DRG grouper during HCUP processing. For discharges occurring before October 1, 1991, DRGVER contains the DRG "revision" number. For discharges after that date, DRGVER contains the DRG "version" number (which is one value higher than the revision number). This coding scheme is consistent with the labeling of the DRG reference material, including the DRG coding books. Thus, on September 30, 1991 the DRGVER = 7; but on October 1, 1991 the DRGVER = 9.

Uniform Values				
Variable	Variable Description Value Value Descript		Value Description	
DRGVER	DRGVER DRG grouper	4	4th revision, eff. Oct 1, 1987	
	version used on discharge	5	5th revision, eff. Oct 1, 1988	
	date	6	6th revision, eff. Oct 1, 1989	
		7	7th revision, eff. Oct 1, 1990	
		9	Version 9, eff. Oct 1, 1991	
		10	Version 10, eff. Oct 1, 1992	
		11	Version 11, eff. Oct 1, 1993	
		12	Version 12, eff. Oct 1, 1994	
		13	Version 13, eff. Oct 1, 1995	
		14	Version 14, eff. Oct 1, 1996	
		15	Version 15, eff. Oct 1, 1997	
		16	Version 16, eff. Oct 1, 1998	
		17	Version 17, eff. Oct 1, 1999	
		18	Version 18, eff. Oct 1, 2000	

State Specific Notes

None

DSHOSPID - Data source hospital number

General Notes

There are up to three different hospital identifiers included in the HCUP databases:

- The data source's own number scheme for identifying hospitals and facilities (DSHOSPID),
- The hospital identifier used by the American Hospital Association (AHAID and IDNUMBER), and
- A unique HCUP hospital identifier (HOSPID).

The hospital entity as defined by the data source may differ from the hospital entity as defined by the AHA. For example, the data source treats two separate facilities as two hospitals, while the AHA Annual Survey treats the two facilities as a single hospital, or vice versa. For consistency across states, HCUP defines hospitals in accordance with the American Hospital Association Annual Survey of Hospitals.

Uniform Values				
Variable	Variable Description Value Value Description			
DSHOSPID	Data source hospital number	13(a)	Data source hospital number	

State Specific Notes	
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California

Prior to 1998, the variable DSHOSPID is length 9 with the first digit indicating the level of care, the next two digits for state "06", and then a 6-digit hospital identifier that included the county code.

Beginning in 1998, DSHOSPID is length 6 and only contains the unique hospital identifier. The level of care indicator is retained in the HCUP variable LEVELCARE.

Regardless of whether the information on the level of care is stored in the first digit of DSHOSPID or variable LEVELCARE, the values are defined as follows:

0=	Type of unit unknown (beginning in 1996)
1=	General acute care
2=	Not a valid code
3=	Skilled nursing and intermediate care (long term care)
4=	Psychiatric care
5=	Alcohol/chemical dependency recovery treatment
6=	Acute physical medicine rehabilitation care.

The reliability of this indicator for the type of care depends on how it was assigned.

Prior to 1995. The type of care was assigned by California based on the hospital's licensed units and the proportion of records in a batch of submitted records that fall into each Major Diagnostic Category (MDC). Hospitals were permitted to submit discharge records in one of two ways: submit separate batches of records for each type of care OR bundle records for all types of care into a single submission. How a hospital submitted its records to California determined the accuracy of the type of care indicated in the first digit of DSHOSPID. Consider a hospital which is licensed for more than one type of care:

- If the hospital submitted one batch of records per type of care, then the
 distribution of each batch of discharges into MDCs would clearly indicate
 the type of care (acute, psychiatric, etc.). The data source could then
 accurately assign the first digit of DSHOSPID.
- If the same hospital submitted all of its records in one batch, then the
 distribution of discharges into MDCs would be a mixture of acute and
 other types of care. The first digit of DSHOSPID would be set to "general
 acute care" (value = 1) on all records and would not distinguish the types
 of care.

Prior to 1995, most hospitals submitted only one batch of records to California which meant that the type of care indicated in the first digit of DSHOSPID did not distinguish among types of care.

Beginning in 1995. Hospitals were required to assign type of care codes to individual records for certain discharges. These discharges included:

- general acute care (value = 1),
- skilled nursing and intermediate care (value = 3), and
- rehabilitation care (value = 6).

For discharges from facilities licensed as psychiatric care (value = 4) or alcohol/chemical dependency recovery treatment (value = 5), California continued to assign the type of care code to all discharges from the facility.

Florida

In 1997, Florida hospital identifiers for short-term acute care hospitals are coded slightly differently in its ambulatory and inpatient data. Florida ambulatory surgery data contains hospital identifiers of length 8. The Florida inpatient data contains hospital identifiers that are mostly length 6. For example:

- Ambulatory Hospital Identifier = "00100001"
- Inpatient Hospital Identifier = "100001"

Beginning in 1998, hospital identifiers that were length 6 were padded with leading zeros for consistency across data types.

Oregon

Beginning with 1995 data, Oregon changed the format of the state-specific hospital identification numbers stored in DSHOSPID. The new format is incompatible with the format used in previous years.

Pennsylvania

The coding of DSHOSPID varies by data year.

- Prior to 1995, the hospital identifier supplied by Pennsylvania contained a three character prefix "PAF".
- From 1995-1997, this prefix was not included in the supplied data. For consistency with previous years of HCUP data, the prefix "PAF" was added to the beginning of the Pennsylvania hospital identifier (DSHOSPID) during HCUP processing.
- Beginning in 1998, the prefix "PAF" is not included in the DSHOSPID for Pennsylvania.

Washington

Included with the records of general acute care stays from community hospitals are records from alcohol dependency units, bone marrow transplant units, extended care units, psychiatric units, rehabilitation units, group health units, and swing bed units. Records for these different types of care can be identified by the fourth digit of the supplied hospital identifier (DSHOSPID) on each patient record:

None	General acute care
A=	Alcohol Dependency Unit
B=	Bone Marrow Transplant Unit
E=	Extended Care Unit
H=	Tacoma General/Group Health Combined
I=	Group Health only at Tacoma Hospital
P=	Psychiatric Unit
R=	Rehabilitation Unit
S=	Swing Bed Unit

Washington assigns this value to DSHOSPID based upon the type of unit discharging the patient.

DXn - Diagnosis

General Notes

The original value of the principal diagnosis (DX1), whether blank or coded, is retained in the first position of the diagnosis vector. Starting at the first secondary diagnosis (DX2), the diagnoses are shifted during HCUP processing to eliminate blank secondary diagnoses. For example, if DX2 and DX4 contain nonmissing diagnoses and DX3 is blank, then the value of DX4 is shifted into DX3. Secondary diagnoses are never shifted into the principal position (DX1).

Diagnoses are compared to a list of ICD-9-CM codes valid for the discharge date. Anticipation of or lags in response to official ICD-9-CM coding changes are permitted for discharges occurring within a window of time around the official ICD-9-CM coding changes (usually October 1). In the 1988-1997 data, a six months window (three months before and three months after) is allowed. Beginning in the 1998 data, a year window (six months before and six months after) is allowed. For example, the code for Single Liveborn changed from "V300" to "V3000" as of October 1, 1989. Under HCUP validation procedures, "V300" is classified as valid for discharges on December 31, 1989, and "V3000" is classified as valid for discharges on July 1, 1989. If the diagnosis is not left-justified, contains intermittent blanks, or is zero filled, then the diagnosis will be invalid.

Diagnoses are compared to the sex of the patient (EDX03 beginning in the 1998 data and ED1nn in the 1988-1997 data) and the patient's age (EAGE04 and EAGE05 beginning in the 1998 data and ED3nn and ED4nn in the 1988-1997 data) for checking the internal consistency of the record.

How invalid and inconsistent codes are handled varies by data year.

 Beginning in the 1998 data, invalid and inconsistent diagnoses are masked directly. Validity flags are not included on the HCUP record. Clinical Classifications Software (CCS) data elements are coded with respect to the diagnosis.

	Invalid Diagnosis	Inconsistent Code	
The value of DXn	"invl"	"incn"	
DXCCSn	Set to invalid (.A).	Set to inconsistent (.C)	

 From 1988-1997 data, invalid and inconsistent diagnoses are retained on the record. Validity flags (DXVn) indicate invalid, inconsistent diagnosis codes. Clinical Classifications Software (CCS) data elements use the former name (DCCHPRn). The CCS was formerly known as the Clinical Classifications for Health Policy Research (CCHPR). The diagnosis related data elements are coded as follows:

	Invalid Diagnosis	Inconsistent Code	
The value of DXn	Unchanged	Unchanged	
DXVn	Set to 1	Set to inconsistent (.C)	
DCCHPRn	Set to invalid (.A).	Retained (values 1-260)	

The validity flags (DXVn) need to be used in connection with any analysis of the diagnoses (DXn).

A maximum of 15 diagnoses has been retained on a NIS inpatient record. States that provide fewer than 15 diagnoses have had the diagnosis vector padded with blank values. For example, if a state supplied 5 diagnoses, DX6 through DX15 are blank (" ") on all records from that state. States that provide more than 15 diagnoses may have information truncated. If an inpatient record from these states had more than 15 non-missing diagnoses, diagnoses in positions 16 and above were not included in the NIS file. If the number of diagnoses coded on this discharge (NDX) is greater than 15, secondary diagnoses have been truncated from the record.

The following table lists the maximum number of diagnoses reported by each state.

State	Number of Diagnoses Provided by the Data Source			
	1998	1999	2000	
Arizona	11	11	11	
California	30	30	30	
Colorado	15	15	15	
Connecticut	30	30	30	
Florida	10	10	10	
Georgia	10	10	10	
Hawaii	11	11	11	
Illinois	9	9	9	
Iowa	11	11	11	
Kansas	30	30	30	
Kentucky	n/a	n/a	10	

State	Number of Diagnoses Provided by the Data Source		
	1998	1999	2000
Massachusetts	10	16	16
Maryland	16	16	16
Maine	n/a	10	10
Missouri	30	30	30
North Carolina	n/a	n/a	15
New Jersey	10	10	10
New York	17	17	17
Oregon	11	11	11
Pennsylvania	10	10	10
South Carolina	10	10	10
Tennessee	10	10	10
Texas	n/a	n/a	10
Utah	10	10	10
Virginia	n/a	10	10
Washington	10	10	10
Wisconsin	10	10	10
West Virginia	n/a	n/a	10

Since on the NIS the number of diagnoses coded on the discharge (NDX) can be greater than the number of diagnoses available on the inpatient record, caution needs to be taken when using NDX to loop through the diagnoses. A counter for the loop should not extend past 15. Programming code such as the following example SAS statement is needed to take this into account:

DO I = 1 to MIN(15,NDX); Followed by code to process all diagnoses. END;

Uniform Values				
Variable	Description	Value	Value Description	
DXn Diagnosis	Diagnosis	annnn	Diagnosis code	
	Blank	Missing		
		invl	Invalid: beginning with 1998 data, EDX02	

	Uniform Values				
Variable	Description	Value	Value Description		
		incn	Inconsistent: beginning with 1998 data, EAGE04, EAGE05, EDX03		

Arizona

Beginning with 1995 discharges, Arizona reports two "cause of injury" E-codes in separate variables. During HCUP processing, these E-codes are placed after the last non-missing diagnosis code if they are not already recorded as a secondary diagnosis.

Arizona reports some diagnosis codes with an explicit decimal point. The decimal point was removed during HCUP processing.

California

HIV Test Result Diagnoses

California law prohibits the release of HIV test results in patient-identifiable form to any outside party without the patient's consent. Therefore, records that include certain ICD-9-CM codes that indicate HIV test results were not included in the data supplied for HCUP. California eliminated all occurrences of these codes from the diagnosis fields and packed the diagnosis vectors to cover gaps from such removals.

The following ICD-9-CM codes were affected:

- From January 1988 to October 1, 1994, diagnosis codes of 044.x or 795.8 were removed by the data source prior to submitting data to HCUP.
- Beginning October 1, 1994, diagnosis codes of 795.71 or V08 were removed by the data source prior to submitting data to HCUP. These ICD-9-CM codes replaced the earlier codes.

HIV-related diagnoses 042.x and 043.x were unaffected.

The number of such diagnoses eliminated from the principal diagnosis position will be smaller than it otherwise might have been due to a practice in California that actively discourages the reporting of codes for HIV test results (044.x, 795.8, 795.71, and V08) as a principal diagnosis. During data editing, California flags discharges reporting one of these codes in the principal diagnosis position and

then calls the submitting hospital to ask if the principal diagnosis should be changed. Hospitals have the option of deleting the code, changing it, or leaving it in place.

Shriner's Hospitals

Shriner's hospitals do not report diagnoses, procedures or total charges.

Psychiatric Diagnoses

Prior to 1995, some hospitals reported psychiatric diagnoses in DSM III which California then converted into ICD-9-CM diagnosis codes. The ICD-9-CM diagnosis codes are included in the HCUP database.

From 1995-1998, some psychiatric hospitals began submitting data for primary diagnosis according to DSM IV criteria. DSM IV codes are indistinguishable in appearance from ICD-9-CM codes but have substantially different meanings. Because of similarities in the coding structure, the source was unable to convert the DSM IV codes to ICD-9-CM codes. DSM IV codes may occur in the HCUP data. Psychiatric hospitals may be included in the California data; no documentation was available on the use of DSM IV codes in psychiatric units of acute care hospitals.

Beginning in 1999, DSM psychiatric codes are not accepted by OSHPD and are not present in the HCUP databases.

E-Codes

Beginning with 1990 discharges, the source reports five "cause of injury" E-codes as separate variables. During HCUP processing, E-codes were placed after the last non-missing diagnosis code.

California does not require the reporting of E-codes in the range E870-E879 (misadventures and abnormal reactions).

Hawaii

Hawaii reports one "cause of injury" E-code as a separate data element. During HCUP processing, this E-code was placed after the last non-missing diagnosis code.

Iowa

Beginning in 1994, Iowa reports one "cause of injury" E-codes. Beginning in 1998, Iowa added one "place of injury" E-codes. During HCUP processing, these separately reported E-code variables are placed at the end of the diagnosis

vector; since the vector is packed during processing to remove blanks, the position of the E-code for a specific discharge depends on the number of diagnoses reported.

Illinois

Illinois supplied diagnosis codes in a field of length 6. Only the first five characters contained in the left-justified source field were used to assign the HCUP diagnosis codes.

Kentucky

Kentucky reports "cause of injury" E-codes as a separate variable. During HCUP processing, this separately reported E-code was placed after the last non-missing secondary diagnosis.

Kentucky supplied diagnosis codes in a field length of 6. Only the first five characters contained in the left-justified source field were used to assign the HCUP diagnosis codes.

Massachusetts

Beginning in 1993, Massachusetts reported one "cause of injury" E-code. During HCUP processing, the separately reported E-code was placed after the last non-missing secondary diagnosis. E-codes can appear in other secondary diagnosis codes.

Maryland

Maryland reports "cause of injury" E-codes as a separate variable. During HCUP processing, this separately reported E-code was placed after the last non-missing secondary diagnosis.

Maryland supplied diagnosis codes in a field of length 7. Only the first five characters contained in the left-justified source field were used to assign the HCUP diagnosis codes.

The last secondary diagnosis field on the source data was 9-filled instead of blank when no diagnosis was coded. During HCUP processing, the 9-filled diagnosis was set to blank.

North Carolina

North Carolina supplied diagnosis codes in a field length of 6. Only the first five characters contained in the left-justified source field were used to assign the HCUP diagnosis codes.

New Jersey

Beginning with 1993 discharges, New Jersey reports "cause of injury" E-codes as a separate variable. During HCUP processing, this E-code was placed after the last non-missing diagnosis code.

Before 1994, the diagnosis codes provided by the state were right-padded with zeros (e.g., the diagnosis code '436' was supplied as '43600'). For the HCUP database the following algorithm was used to validate the diagnosis codes:

Check the five-digit code for validity (using a six-month window for coding changes, 3 months before and 3 months after October of each year when ICD-9-CM coding changes occur).

- If the five-digit code is valid, set DXn to the five-digit code and set DXVn =
- 2. If the five-digit code is invalid and the fifth digit is a zero, create a four-digit code by deleting the trailing zero and re-check for validity (using six-month window for coding changes). If the four-digit code is valid, set DXn to the four-digit code and set DXVn = 0.
- 3. If the four-digit code is invalid and the fourth digit is a zero, create a three-digit code by deleting the trailing zero and re-check for validity (using sixmonth window for coding changes). If the three-digit code is valid, set DXn to the three-digit code and set DXVn = 0.
- 4. If the five-, four- and three-digit codes are invalid, save the original five-digit code and set the validity flag to indicate an invalid code (DXVn = 1).

New Jersey

In 1993 only. An error in HCUP processing caused invalid five-digit codes that ended in non-zeros, as well as zeros, to be processed by the above algorithm. If deleting the rightmost non-zero digits created a valid code, then

- DXn was set to the original invalid five digit code,
- DXVn was set 0 to indicate a valid code,
- DCCHPR was set based on the stripped valid code, and
- DRG, MDC, DRG10, MDC10, NEOMAT and edit check variables ED100, ED1nn, ED3nn, ED4nn, ED600, and ED601 may have been incorrectly assigned based on the stripped valid code.

New York

Beginning in 1993, New York reports "cause of injury" and "place of injury" E-codes. During HCUP processing, these separately reported E-codes were placed after the last nonmissing secondary diagnosis. When a "cause of injury" E-code in the range of E850.0-E869.9 or E880.0-E928.9 was reported, then a "place of

injury" E-code was also reported. If the hospital stay involved the possibility of classifying more than one situation or event, only the single cause of injury, poisoning, or adverse effect that was most severe was reported.

Oregon

Prior to 1998, Oregon reports one "cause of injury" E-codes as a separate variable. Beginning in 1998. Oregon reports two "cause of injury" E-codes. During HCUP processing, these separately reported E-codes are placed after the last non-missing secondary diagnosis.

Oregon supplied diagnosis codes in a field of length 6. Only the first five characters contained the diagnosis code and were used to assign the HCUP diagnosis codes.

Pennsylvania

Beginning with 1993 discharges, Pennsylvania reports "cause of injury" E-codes as a separate variable. During HCUP processing, this E-code was placed after the last non-missing diagnosis code.

Some of the diagnosis codes in the 1989 Pennsylvania data that were flagged as invalid (DXV=1) appear to be valid codes. These diagnosis fields have four digits followed by a fifth digit that is an unprintable null character. The presence of the null character invalidates these otherwise valid diagnosis codes. Only the 1989 Pennsylvania data are affected. The following list includes all diagnosis codes in the 1989 Pennsylvania data that are valid ICD-9-CM codes but are flagged as invalid because they include null characters.

<u>Code</u>	<u>Frequency</u>	<u>Diagnosis</u>
1000	929	Leptospirosis Icterohemmorrhagica
2800	93	Chronic Blood Loss Anemia
5600	89	Intussusception
3200	81	Hemophilus Meningitis
5800	61	Acute Proliferative Nephritis
0600	48	Sylvatic Yellow Fever
6200	29	Follicular Cyst of Ovary
2400	24	Simple Goiter
1600	11	Malignant Neoplasm of Nasal Cavities
2100	8	Benign Neoplasm of Lip
3201	3	Pneumococcal Meningitis
3202	3	Streptococcal Meningitis

<u>Code</u>	<u>Frequency</u>	<u>Diagnosis</u>
3208	2	Bacterial Meningitis
5400	2	Acute Appendicitis with Peritonitis
0601	1	Urban Yellow Fever
2801	1	Iron Deficiency Anemic Dietary
6205	1	Torsion of Ovary
6208	1	Noninflammatory Disorders of Ovary

South Carolina

Prior to 2000 data, a small number of discharges explicitly included decimals in the diagnosis field, usually the decimal is implicit. This is problematic because South Carolina supplied diagnoses in a field of length 5. If decimals were included, then a valid 5-digit code would be truncated. For example, the diagnosis for unspecified sickle cell anemia "28260" would be incorrectly reported as "262.6". Prior to 1998, invalid diagnosis codes are marked by a validity flag (DXVn = 1). Beginning in 1998, invalid diagnosis codes are masked (Dxn = "invl").

Beginning in 2000 data this was no longer a problem; explicit decimals were not included in the diagnosis codes.

Tennessee

Tennessee reports "cause of injury" E-codes as a separate variable. During HCUP processing, this E-code was placed after the last non-missing diagnosis code.

Texas

Tennessee reports "cause of injury" E-codes as a separate variable. During HCUP processing, this separately reported E-code was placed after the last non-missing secondary diagnosis.

Texas supplied diagnosis codes in a field length of 6. Only the first five characters contained in the left-justified source field were used to assign the HCUP diagnosis codes.

Utah

Utah reports one "cause of injury" E-code as a separate variable. During HCUP processing, this E-code was placed after the last non-missing diagnosis code.

Virginia

Virginia reports one "external injury code" E-code as a separate data element. During HCUP processing, this E-code was placed after the last non-missing diagnosis code.

Washington

Washington reported diagnosis codes in a field of length 6 for 1988-1992 and, beginning in 1993, in a field of length 7. Only the first five characters contain the diagnosis code and were used to assign the HCUP diagnosis code.

In 1988, Washington did not report "cause of injury" E-codes. From 1989-1992, Washington reports two "cause of injury" E-codes. Beginning in 1993, Washington reports only one "cause of injury" E-code. During HCUP processing, any separately reported E-code was placed after the last non-missing secondary diagnosis. Washington does not require hospitals to report E-codes in the range E870-E879 (misadventures and abnormal reactions) to the state data organization.

Wisconsin

To comply with statutory requirements, Wisconsin modified diagnosis and procedure codes that explicitly referenced induced termination of pregnancy to eliminate distinctions between induced and spontaneous termination. The following codes were modified:

- Diagnoses with the first three digit of 634, 635, 636, 637, 638 were recoded to 637, while retaining the reported fourth digit,
- Procedure 6901 was changed to 6902,
- Procedure 6951 was changed to 6952,
- Procedure 6993 was changed to 6999,
- Procedure 7491 was changed to 7499,
- Procedure 750 was changed to 7599, and
- Procedures 9641-9649 were changed to 964 (which would be flagged as invalid, PRV=1).

Wisconsin reports one "cause of injury" E-code. During HCUP processing, this separately reported E-code was placed after the last non-missing secondary diagnosis.

West Virginia

West Virginia reports "cause of injury" E-codes as a separate variable. During HCUP processing, this separately reported E-code was placed after the last non-missing secondary diagnosis.

West Virginia supplied diagnosis codes in a field length of 6. Only the first five characters contained in the left-justified source field were used to assign the HCUP diagnosis codes.

DXCCSn - Clinical Classifications Software (CCS): diagnosis classification

General Notes

Clinical Classifications Software (CCS) consists of over 260 diagnosis categories. This system is based on ICD-9-CM codes. All diagnosis codes are classified.

DXCCSn is coded as follows:

- 1 to 259 if the diagnosis code (DXn) is valid by the HCUP criteria and not an E-code (External Causes of Injury and Poisoning). The HCUP criteria for diagnosis validation allows a year window (six months before and six months after) around the official ICD-9-CM coding changes (usually October 1), for anticipation of or lags in response to official ICD-9-CM coding changes.
- 2601-2621 if the diagnosis code (DXn) is a valid E-code by the HCUP criteria.
- DXCCSn is missing (.), if there is no diagnosis code (DXn = " ").
- DXCCSn is set to invalid (.A), if the diagnosis code (DXn) is invalid by the HCUP criteria (EDX02).
- DXCCSn is set to inconsistent (.C), if the diagnosis code (DXn) is inconsistent with age (EAGE04 and EAGE05) or sex of the patient (EDX03).

In HCUP databases before 1998, this data element is called DCCHPRn.

Labels

Labels for CCS categories are provided as an ASCII file in HCUP Tools: Labels and Formats.

Formats

Formats to label CCS categories are documented in HCUP Tools: Labels and Formats. A format is also available to map CCS codes into a few broad classes of conditions based on ICD-9-CM chapters.

Uniform Values					
Variable	Description	Value	Value Description		
Softward (CCS): diagnos		1-259	CCS Diagnosis Codes		
	Classifications Software (CCS): diagnosis classification	2601-2621	CCS E-code Class (beginning with 1998 data)		
			No diagnosis code		
		.A	Invalid diagnosis code: beginning with 1998 data, EDX02		
		.C	Inconsistent: beginning with 1998 data, EAGE04, EAGE05, EDX03		

State Specific Notes

FEMALE - Indicator of sex

General Notes

The sex of the patient (FEMALE) is provided by the data source. All non-male, non-female (e.g., "other") values are set to missing (.).

If FEMALE is inconsistent with diagnoses (EDX03) or procedures (EPR03), FEMALE is set to inconsistent (.C).

In HCUP databases before 1998, this data element is called SEX.

Uniform Values					
Variable Description Value Value Description					
FEMALE	Indicator of sex	0	Male		
		1	Female		
			Missing		
		.A	Invalid		
		.C	Inconsistent, EDX03, EPR03		

State Specific Notes

Colorado

According to the documentation available from the source, "Other/Unknown" includes patients undergoing sex changes, undetermined sex, live births with congenital abnormalities, and patients whose sex was unavailable from any source document. The source value for "Other/Unknown" was recoded to missing (.), during HCUP processing of 1988-1992 discharges.

Beginning in 1993, "Other/Unknown" was recoded to invalid (.A) during HCUP processing.

Utah

The source value "E" for "Encrypted patient gender (confidential data)" is recoded to missing (FEMALE = .).

Utah encrypts the patient gender for the following two conditions:

- 1. Patients with the Major Diagnosis Code of "Human Immunodeficiency Virus Infection" (value 25) and
- 2. Diagnosis Related Groups "Alcohol/Drug Abuse or Dependence" (values 433-437).

HOSPID - HCUP hospital identification number

General Notes

For consistency across states, HCUP defines hospitals in accordance with the American Hospital Association Annual Survey of Hospitals. The hospital entity as defined by HOSPID may differ from the data source hospital entity (DSHOSPID). For example, the data source treats two separate facilities as two hospitals, while the AHA Annual Survey treats the two facilities as a single hospital, or vice versa.

The HCUP hospital identifier is based on the AHA hospital identifier and is defined as:

- SSnnn, where SS = State FIPS Code, and
- nnn = hospital number unique to state.

HOSPID is missing for some hospitals because an AHA hospital identifier can not be determined. Hospitals may not be registered with the AHA or the sourceprovided information can not be matched to the AHA.

Uniform Values				
Variable Description Value Value Description				
HOSPID	HCUP hospital identification number	5(n)	HCUP hospital identification number	
		Blank	Missing	

State Specific Notes

HOSPST - Hospital State postal code

General Notes

HOSPST indicates the hospital's two-character state postal code (e.g., "CA" for California).

Uniform Values				
Variable Description Value Value Description				
HOSPST	Hospital State postal code	aa	Hospital State postal code	

State Specific Notes

HOSPSTCO - Hospital modified FIPS state/county code

General Notes

HOSPSTCO indicates the five-digit state and county modified FIPS code listed for that hospital in the American Hospital Association Annual Survey of Hospitals. Each hospital has only one unique state/county code. If multiple hospital units are in different counties, HOSPSTCO is the county code of the primary facility (as indicated by American Hospital Association Annual Survey information).

HOSPSTCO can be used to link HCUP data to any other data set that uses the modified FIPS county code, such as the Area Resource File and the American Hospital Association Annual Survey of Hospitals. In these modified FIPS county codes, Baltimore City is included in Baltimore County, St. Louis City in St. Louis County, and the independent cities of Virginia in the contiguous counties, Kalawao county, Hawaii is included in Maui County. The four Alaska Judicial Divisions are used as counties.

HOSPSTCO is missing for some hospitals because an AHA hospital identifier can not be determined. Hospitals may not be registered with the AHA or the source-provided information can not be matched to the AHA.

Uniform Values					
Variable Description Value Value Description					
HOSPSTCO	Hospital modified FIPS state/county code	5(n)	Hospital modified FIPS State/County code		
		Blank	Missing		

State Specific Notes

KEY - Unique record identifier

General Notes

KEY contains a unique record identifier. Beginning in the 1998 data, all HCUP databases are sorted by KEY.

KEY can be used to link within a HCUP database, such as linking records in the Core and Charges files in the SID.

KEY can be used to link across HCUP databases within a data type, i.e., link records in the SID to records in the NIS.

KEY is a unique record identifier and not a person identifier. KEY cannot be used to link records between HCUP inpatient and ambulatory surgery files.

KEY replaces the database-specific record identifiers used in the 1988-1997 HCUP databases (SEQ, SEQ_SID, and SEQ_ASD).

Uniform Values				
Variable	Description	Value	Value Description	
KEY	Unique record identifier	14(n)	Unique record identifier	

State Specific Notes	
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LOS - Length of stay, cleaned

General Notes

Length of stay (LOS) is calculated by subtracting the admission date (ADATE) from the discharge date (DDATE). Same-day stays are therefore coded as 0. Leave days are not subtracted. Before edit checks are performed, LOS and LOS_X have the same value. If LOS is set to inconsistent (.C), the value of LOS_X is retained.

LOS is not equal to the calculated value in the following cases:

- LOS is set to the supplied length of stay if the length of stay cannot be calculated (ADATE and/or DDATE is missing or invalid). Note: If the supplied length of stay codes same-day stays as 1 or subtracts leave days, then the supplied length of stay is NOT used.
- LOS is missing (.) if the length of stay cannot be calculated and the supplied length of stay is missing.
- LOS is invalid (.A) if
 - it is greater than the maximum value allowed during HCUP processing (the maximum allowed in the 1988-1997 data is 32,767; the maximum allowed beginning in the 1998 data is 20 years)
 - or -
 - the length of stay cannot be calculated and the supplied length of stay is nonnumeric.
- An invalid calculated LOS is not replaced by the supplied length of stay.
- If the data source does not supply either admission date (ADATE) and discharge date (DDATE), or length of stay, then beginning in the 1998 data LOS is not present on the HCUP files. In the 1988-1997 data, LOS is retained on the HCUP files and is set to unavailable from source (.B).
- LOS is inconsistent (.C) if
 - LOS is negative (ELOS03 beginning in the 1998 data and ED011 in the 1988-1997 data).
 - Excessively long (ELOS04 beginning in the 1998 data and ED601 in the 1988-1997 data), or
 - Charges per day are unjustifiably low (ED911) or high (ED921).

Edit checks ED911 and ED921 are only performed on the 1988-1997 data. No charge per day edit checks are performed on the HCUP data beginning in the 1998 data.

Uniform Values			
Variable	Description	Value	Value Description
LOS	Length of stay, cleaned	0 - 365	Days (In the 1988-1997 data, LOS can be greater than 365 days)
			Missing
		.A	Invalid
		В	Unavailable from source (coded in 1988-1997 data only)
		.C	Inconsistent: beginning with 1998 data, ELOS03, ELOS04; in 1988-1997 data, ED011, ED601, ED911n, ED921

State Specific Notes

Arizona

Beginning in 1995, the source reports same-day stays as zero days so the supplied length of stay was used to assign LOS when length of stay could not be calculated from dates. Prior to 1995, the reported length of stay was not used when LOS could not be calculated because Arizona coded same-day stays with a value of 1 and subtracted days of absence from LOS.

Colorado

The reported length of stay was not used when LOS could not be calculated because Colorado:

- coded same-day stays with the value 1 and
- subtracted days of absence

Connecticut

Length of stay could not be calculated from dates since Connecticut did not report full admission and discharge dates. During HCUP processing, the reported length of stay and a flag which indicates same-day stays were used to assign LOS. If the same-day flag was not coded, the reported length of stay was retained as supplied (i.e., if the reported length of stay was 1 and the same-day flag is not coded, then LOS is set to 1 and not reset to 0).

Florida

Beginning in 2000, the supplied length of stay was used to assign LOS and LOS_X because Florida did not provide the admission and discharge date necessary for calculating length of stay. The supplied length of stay was coded according to the HCUP standard that assigns a length of stay of zero (0) to same day stays.

In 1997-1999, the coding of LOS and LOS_X is <u>inconsistent</u> with the coding of length of stay in other states. Florida provided the reported length of stay but not the admission and discharge date necessary for calculating LOS. Florida codes same-day stays as LOS=1; the HCUP standard coding of same-day stays is LOS=0. Usually 2% of a states' discharges are same-day stays.

Prior to 1997, the reported length of stay was not used when LOS could not be calculated because Florida:

- coded same-day stays with the value 1 and
- subtracted days of absence.

Georgia

The reported length of stay was not used when LOS could not be calculated because Georgia coded same-day stays with a value of 1.

Hawaii

Only the calculated length of stay could be used to assign LOS because Hawaii did not supply reported length of stay.

Iowa

The reported length of stay was not used when LOS could not be calculated because lowa coded same-day stays with a value of 1.

Illinois

The reported length of stay was not used when LOS could not be calculated because Illinois coded same-day stays with a value of 1.

Kansas

The reported length of stay was not used when LOS could not be calculated because Kansas coded same-day stays with a value of 1.

Kentucky

The reported length of stay was not used when LOS could not be calculated because Kentucky coded same-day stays with a value of 1.

Massachusetts

The supplied length of stay was not used when LOS could not be calculated because Massachusetts:

- coded same-day stays with the value 1 and
- subtracted days of absence.

Maine

The supplied length of stay was not used when length of stay could not be calculated because Maine coded same-day stays with a value of 1.

Missouri

The reported length of stay was not used when LOS could not be calculated because Missouri coded same-day stays with a value of 1. The appropriate edit check for consistency of reported and calculated length of stay could not be performed.

North Carolina

The reported length of stay was not used when LOS could not be calculated because North Carolina coded same-day stays with the value 1.

New York

The assignment of LOS and LOS X varies by year in New York:

- In 2000 data, the length of stay (LOS and LOS_X) in New York was calculated from the admission and discharge dates. Because New York masked the dates on AIDS/HIV* records, the calculated length of stay was missing. During HCUP processing, other information provided by New York was used to determine LOS and LOS_X when the calculated length of stay was missing. The length of stay provided by New York (which did not include leave days), total leave days, and a flag that indicates a same day stay were used to determine a length of stay that was consistent with the coding of length of stay on other HCUP records.
- In the 1998-1999 data, the length of stay (LOS and LOS_X) in New York was calculated from the admission and discharge dates. Because New York

masked the admission and discharge dates on AIDS/HIV* records, LOS and LOS X was missing (.) on these discharges.

If the 1998-1999 NIS was purchased from NTIS, then a patch file for the 1998-1999 New York records that are missing LOS and LOS_X will be available through the HCUP Central Distributor in the fall of 2002. At that time, the HCUP Central Distributor will also be distributing an updated version of the 1998-1999 NIS.

- In the 1988-1997 HCUP New York data, LOS and LOS_X could not be calculated from dates because New York did not report full admission and discharge dates. During HCUP processing, the length of stay provided by New York was used to assign LOS and LOS_X. The length of stay provided by New York was adjusted during HCUP processing to be consistent with the coding of length of stay in other states.
- * New York identifies AIDS/HIV records by ICD-9-CM diagnosis code or DRG:
- An admitting, principal, or secondary diagnosis of '042', '043', '044', '7958', '27910', '27919', '2793', '1363', '79571', '07951', '07952', '07953', or 'V08'.
- A DRG of 488 "HIV with Extensive Operating Room Procedure," 489 "HIV with Major related condition," or 490 "HIV with or without Other Related Condition".

Please note that the admitting diagnosis is not retained in the HCUP databases.

Oregon

Prior to 1994, the reported length of stay was assigned to LOS if dates were not available. However, the coding of same day stay varies: some Oregon hospitals report discharges on the day of admission as one day stay (LOS=1), in addition to reporting same day stay as zero days (LOS=0).

Beginning in 1994, the reported length of stay was not used when LOS could not be calculated from dates because Oregon coded all same-day stays as one day (LOS=1).

Pennsylvania

Prior to 1997, the reported length of stay was not used when LOS could not be calculated because Pennsylvania coded same-day stays with a value of 1 and subtracted days of absence from LOS. The appropriate edit check for consistency of reported and calculated length of stay could not be performed.

Beginning in 1997, Pennsylvania reports same-day stays as zero days. The supplied length of stay was used to assign LOS when length of stay could not be calculated from dates.

South Carolina

The reported length of stay was not used when LOS could not be calculated because South Carolina coded same-day stays with a value of 1.

Texas

The reported length of stay was not used when LOS could not be calculated because Texas coded same-day stays with the value 1.

Utah

The reported length of stay was not used when LOS could not be calculated because Utah coded same-day stays with a value of 1.

Washington

The reported length of stay was not used when LOS could not be calculated because Washington:

- coded same-day stays with the value 1 and
- subtracted days of absence.

Wisconsin

Only the calculated length of stay was used to assign LOS and LOS_X. For 1988-1994, the reported length of stay was not used when LOS could not be calculated because Wisconsin subtracted leave days and coded length of stay greater than 999 days as 999 days. Beginning with 1995, length of stay was not supplied.

West Virginia

Only the calculated length of stay was used to assign LOS because West Virginia did not provide the reported length of stay.

LOS_X - Length of stay, uncleaned

General Notes

Length of stay (LOS_X) is calculated by subtracting the admission date (ADATE) from the discharge date (DDATE). Same-day stays are therefore coded as 0. Leave days are not subtracted. Before edit checks are performed, LOS and LOS_X have the same value. If LOS is set to inconsistent (.C), the value of LOS_X is retained. LOS_X may contain negative or excessively large values.

LOS_X is not equal to the calculated value in the following cases:

- LOS_X is set to the supplied length of stay if the length of stay cannot be calculated (ADATE and/or DDATE is missing or invalid). Note: If the supplied length of stay codes same-day stays as 1 or subtracts leave days, then the supplied length of stay is NOT used.
- LOS_X is missing (.) if the length of stay cannot be calculated and the supplied length of stay is missing.
- LOS X is invalid (.A) if
 - it is greater than the maximum value allowed during HCUP processing (the maximum allowed in the 1988-1997 data is 32,767; the maximum allowed beginning in the 1998 data is 20 years)
 - o or -
 - the length of stay cannot be calculated and the supplied length of stay is nonnumeric.
- An invalid calculated LOS_X is not replaced by the supplied length of stay.
- If the data source does not supply either admission date (ADATE) and discharge date (DDATE), or length of stay, then beginning in the 1998 data LOS_X is not present on the HCUP files. In the 1988-1997 data, LOS_X is retained on the HCUP files and is set to unavailable from source (.B).

Uniform Values			
Variable	Description	Value	Value Description
LOS_X	Length of stay, uncleaned	+/- 7,305	Days (In the 1988-1997 data, LOS_X can be greater than 7,305 days)
			Missing
		.A	Invalid (nonnumeric or out of range)
		.B	Unavailable from source (coded in 1988-1997 data only)

State Specific Notes

Arizona

Beginning in 1995, the source reports same-day stays as zero days so the supplied length of stay was used to assign LOS_X when length of stay could not be calculated from dates. Prior to 1995, the reported length of stay was not used when LOS_X could not be calculated because Arizona coded same-day stays with a value of 1 and subtracted days of absence from LOS.

Colorado

The reported length of stay was not used when LOS_X could not be calculated because Colorado:

- coded same-day stays with the value 1 and
- subtracted days of absence.

Connecticut

Length of stay could not be calculated from dates since Connecticut did not report full admission and discharge dates. During HCUP processing, the reported length of stay and a flag which indicates same-day stays were used to assign LOS_X. If the same-day flag was not coded, the reported length of stay was retained as supplied (i.e., if the reported length of stay was 1, and the same-day flag is not coded, then LOS X is set to 1 and not reset to 0).

Florida

Beginning in 2000, the supplied length of stay was used to assign LOS and LOS_X because Florida did not provide the admission and discharge date necessary for calculating length of stay. The supplied length of stay was coded according to the HCUP standard that assigns a length of stay of zero (0) to same day stays.

In 1997-1999, the coding of LOS and LOS_X is <u>inconsistent</u> with the coding of length of stay in other states. Florida provided the reported length of stay but not the admission and discharge date necessary for calculating LOS_X. Florida codes same-day stays as LOS_X=1; the HCUP standard coding of same-day stays is LOS_X=0. Usually 2% of a states' discharges are same-day stays.

Prior to 1997, the supplied length of stay was not used when length of stay could not be calculated because Florida:

coded same-day stays with the value 1 and

subtracted days of absence.

Georgia

The reported length of stay was not used when LOS_X could not be calculated because Georgia coded same-day stays with a value of 1.

Hawaii

Only the calculated length of stay could be used to assign LOS_X because Hawaii did not supply reported length of stay.

Iowa

The reported length of stay was not used when length of stay could not be calculated because lowa coded same-day stays with a value of 1.

Illinois

The supplied length of stay was not used when length of stay could not be calculated because Illinois coded same-day stays with a value of 1.

Kansas

The reported length of stay was not used when length of stay could not be calculated because Kansas coded same-day stays with a value of 1.

Kentucky

The reported length of stay was not used when LOS_X could not be calculated because Kentucky coded same-day stays with a value of 1.

Massachusetts

The supplied length of stay was not used when LOS could not be calculated because Massachusetts:

- coded same-day stays with the value 1 and
- subtracted days of absence.

Maine

The supplied length of stay was not used when length of stay could not be calculated because Maine coded same-day stays with a value of 1.

Missouri

The reported length of stay was not used when LOS_X could not be calculated because Missouri coded same-day stays with a value of 1.

North Carolina

The reported length of stay was not used when LOS_X could not be calculated because North Carolina coded same-day stays with the value 1.

New York

The assignment of LOS and LOS_X varies by year in New York:

- In 2000 data, the length of stay (LOS and LOS_X) in New York was calculated from the admission and discharge dates. Because New York masked the dates on AIDS/HIV* records, the calculated length of stay was missing. During HCUP processing, other information provided by New York was used to determine LOS and LOS_X when the calculated length of stay was missing. The length of stay provided by New York (which did not include leave days), total leave days, and a flag that indicates a same day stay were used to determine a length of stay that was consistent with the coding of length of stay on other HCUP records.
- In the 1998-1999 data, the length of stay (LOS and LOS_X) in New York was
 calculated from the admission and discharge dates. Because New York
 masked the admission and discharge dates on AIDS/HIV* records, LOS and
 LOS_X was missing (.) on these discharges.
 - If the 1998-1999 NIS was purchased from NTIS, then a patch file for the 1998-1999 New York records that are missing LOS and LOS_X will be available through the HCUP Central Distributor in the fall of 2002. At that time, the HCUP Central Distributor will also be distributing an updated version of the 1998-1999 NIS.
- In the 1988-1997 HCUP New York data, LOS and LOS_X could not be calculated from dates because New York did not report full admission and discharge dates. During HCUP processing, the length of stay provided by New York was used to assign LOS and LOS_X. The length of stay provided by New York was adjusted during HCUP processing to be consistent with the coding of length of stay in other states.
- * New York identifies AIDS/HIV records by ICD-9-CM diagnosis code or DRG:
- An admitting, principal, or secondary diagnosis of '042', '043', '044', '7958', '27910', '27919', '2793', '1363', '79571', '07951', '07952', '07953', or 'V08'.

A DRG of 488 "HIV with Extensive Operating Room Procedure," 489 "HIV with Major related condition," or 490 "HIV with or without Other Related Condition".

Please note that the admitting diagnosis is not retained in the HCUP databases.

Oregon

Prior to 1994, the reported length of stay was assigned to LOS_X if dates were not available. However, the coding of same day stay varies: some Oregon hospitals report discharges on the day of admission as one day stay (LOS_X=1), in addition to reporting same day stays as zero days (LOS_X=0).

Beginning in 1994, the reported length of stay was not used when length of stay could not be calculated from dates because Oregon coded all same-day stays as one day (LOS X=1).

Pennsylvania

Prior to 1997, the reported length of stay was not used when length of stay could not be calculated because Pennsylvania coded same-day stays with the value 1.

Beginning in 1997, Pennsylvania reports same-day stays as zero days. The supplied length of stay was used to assign LOS_X when length of stay could not be calculated from dates.

South Carolina

The reported length of stay was not used when LOS_X could not be calculated because South Carolina coded same-day stays with a value of 1.

Tennessee

Only the calculated length of stay could be used to assign LOS_X because Tennessee did not report length of stay.

Texas

The reported length of stay was not used when LOS_X could not be calculated because Texas coded same-day stays with the value 1.

Utah

The reported length of stay was not used when LOS_X could not be calculated because Utah coded same-day stays with a value of 1.

Washington

The reported length of stay was not used when length of stay could not be calculated because Washington:

- coded same-day stays with the value 1 and
- subtracted days of absence.

Wisconsin

Only the calculated length of stay was used to assign LOS and LOS_X. For 1988-1994, the reported length of stay was not used when LOS could not be calculated because Wisconsin subtracted leave days and coded length of stay greater than 999 days as 999 days. Beginning with 1995, length of stay was not supplied.

West Virginia

Only the calculated length of stay was used to assign LOS_X because West Virginia did not provide the reported length of stay.

MDC - MDC in effect on discharge date

General Notes

The Major Diagnostic Category appropriate for the date of discharge (MDC) is assigned by the HCFA DRG grouper during HCUP processing. Refer to the notes for the data element DRG for complete details.

Labels

Labels for the MDCs are provided as an ASCII file in HCUP Tools: Labels and Formats.

Uniform Values			
Variable	Description	Value	Value Description
MDC	MDC in effect on discharge date	nn	MDC value

State Specific Notes	
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California

One discharge in 1991 with an invalid principal diagnosis code (DXV1=1) and at least one non-missing secondary diagnosis code (DX2, etc.) had the incorrect DRG and MDC assigned because of a error in HCUP processing. The DRG should have been 470; and the MDC should have been equal to 0.

No other years are affected.

Massachusetts

Some 1989-1990 discharges with a missing principal diagnosis code (DX1="") and at least one non-missing secondary diagnosis code (DX2, etc.) have the incorrect DRG and MDC assigned because of an error in HCUP processing. The DRG should be 470; and the MDC should be equal to 0. The following number of records are affected:

- 1 record in 1989 and
- 1 record in 1990.

No other years are affected.

Some 1988-1991 discharges with an invalid principal diagnosis code (DXV1=1) and at least one non-missing secondary diagnosis code (DX2, etc.) have the incorrect DRG and MDC assigned because of an error in HCUP processing. The DRG should be 470; and the MDC should be equal to 0. The following number of records are affected:

- for 1988, 34 records;
- for 1989, 30 records;
- for 1990, 44 records; and
- for 1991, 33 records.

Beginning with 1992 discharges, DRG and MDC were processed correctly.

Washington

Some 1988-1992 discharges with an invalid principal diagnosis code (DXV1 = 1) and at least one non-missing secondary diagnosis code (DX2, etc.) have the incorrect DRG and MDC assigned because of an error in HCUP processing. The DRG should be 470; and the MDC should be equal to 0. The following number of records are affected:

- for 1988, 184 records;
- for 1989, 68 records;
- for 1990, 13 records;
- for 1991, 1 record; and
- for 1992, 1 record.

Beginning with 1993 discharges, DRG and MDC were processed correctly.

Wisconsin

According to source documentation, the principal and secondary procedures for one hospital (DSHOSPID="056" and HOSPID=55155) are incorrect in the <u>fourth quarter of 1997</u>. System problems at the hospital caused the last procedure coded on the medical record to be stored as the principal procedure. No secondary procedures were recorded. This affects the DRG, DRG10, MDC, and MDC10 assignment.

Some 1989-1992 discharges with an invalid principal diagnosis code (DXV1=1) and at least one non-missing secondary diagnosis code (DX2, etc.) have the incorrect DRG and MDC assigned because of an error in HCUP processing. The DRG should be 470; and the MDC should be equal to 0. The following number of records are affected:

- for 1989, 23 records;
- for 1990, 4 records;

- for 1991, 1 record; and
- for 1992, 10 records.

Beginning with 1993 discharges, DRG and MDC were processed correctly.

MDC18 - MDC, Version 18

General Notes

The Major Diagnostic Category, Version 18 (MDC18) is assigned by the HCFA DRG Grouper algorithm during HCUP processing. Refer to the notes for the data element DRG18 for complete details.

Labels

Labels for the MDCs are provided as an ASCII file in HCUP Tools: Labels and Formats.

Uniform Values			
Variable	Description	Value	Value Description
MDC18	MDC, Version 18	nn	MDC value

MDID_S - Synthetic attending physician number

General Notes

MDID_S contains a fixed-key (one-to-one) encryption of the supplied attending physician number (MDID), according to the following rules:

- All alphanumeric digits are used in the encryption.
- All symbols such as ".,:;'*@" are retained in the encrypted value, but not in the same location.
- Leading zeros are encrypted so that the two original physician identifiers "000A6" and "A6" are distinctly different.
- When the original attending physician and primary surgeon identifiers are the same, the synthetic identifiers, MDID_S and SURGID_S, are the same.
- When the MDID in the ambulatory surgery data and the inpatient data are the same, the synthetic identifier, MDID S is the same.

Except in those data sources where physician license numbers are supplied, it is not known whether the physician identifier MDID_S refers to individual physicians or to groups. If the attending physician numbers supplied by the data source are not restricted to license numbers, the state-specific note includes available information about reporting practices, including whether MDID_S refers to individual physicians or to groups.

Beginning in the 1993 data, supplied physician identifiers were checked for null characters. If null characters were found, they were replaced by blanks before the identifier was encrypted. Since this conversion was not done in prior years of HCUP data, the encrypted physician identifiers from 1993 on may not match those in earlier years. However, null characters are rarely included.

Beginning with the 1993 NIS, supplied physician identifiers were checked for null characters. If null characters were found, they were replaced by blanks before the identifier was encrypted. Since this conversion was not done in prior years of HCUP inpatient data, the encrypted physician identifiers from 1993 on may not match those in earlier years. However, no null characters were found in the 1994 identifiers, and they were rare in prior years.

Uniform Values			
Variable	Description	Value	Value Description
MDID_S	_ '	16(a)	Synthetic physician identifier
attending physician number		Blank	Missing

State Specific Notes

Arizona

The attending physician identification number (MDID_S) may not accurately track physicians across hospitals for the following reasons:

- Some hospitals assign their own internal attending physician identification numbers rather than using the license numbers issued by the licensing agency of the physician or other health care practitioner. Information was not available about the prevalence of this practice.
- Some hospitals use one attending physician identification number for several physicians that are part of the same physician practice group.
 Information was not available about the prevalence of this practice.

The attending physician identification number includes license numbers from the following board of examiners: Medical, Osteopathic, Podiatrists, and Nurses. In addition, Arizona accepts licensing numbers from other health practitioner licensing boards, but these boards are unspecified.

Colorado

The attending physician identification number (MDID_S) may not accurately track physicians across hospitals. The state encourages hospitals to use the Professional State License Number as an identifier, but some hospitals continue to use their own internal identification number. Also, some hospitals appear to pad the Professional State License Number (a 5-digit code). Information was not available from the data source about the prevalence of these practices.

Some hospitals may use one license number for all physicians in order to protect physician confidentiality. Information was not available from the data source about the prevalence of this practice.

Florida

Florida reports state license numbers for the attending physician identifiers. During HCUP processing, physician identifiers were encrypted (MDID_S).

Iowa

lowa reports Universal Physician Identification Numbers (UPINs) as attending physician identification numbers.

Maine

Maine provides state-specific encrypted physician identifiers for attending physicians that allow for tracking physicians across hospitals.

Caution should be used when tracking physicians back to 1999. The encrypted values supplied by the source in the 1999 inpatient data contained slightly different coding than the values supplied in the 2000 inpatient data. During HCUP processing, physician identifiers were re-encrypted (MDID_S).

Maryland

Maryland reports a state license number assigned by the Medical Chirurgical Faculty of Maryland (MED CHI) for the attending physician. Source documentation describes strict assignment and verification rules for this field.

Missouri

The attending physician identification number (MDID_S) may not accurately track physicians across hospitals. Missouri accepts Universal Physician Identification Numbers (UPINs), state license numbers, and hospital-assigned physician identification numbers as attending physician numbers (MDID_S). According to the source, the majority of physician identifiers are UPINs.

North Carolina

North Carolina provides the Universal Physician Identification Numbers (UPINs) for the attending physician. During HCUP processing, this identifier is encrypted.

New Jersey

The coding of attending physician identification number (MDID_S) varies across years:

Year	Physician Identifier	
1988-93	New Jersey state license numbers	
1994-95	Universal Physician Identification Numbers (UPINs)	
Beginning in 1996	New Jersey state license numbers.	

New York

New York reports state license numbers as physician identifiers. Source documentation indicates that if the attending physician did not possess a valid New York state license number, the license number of the Chief of Service should have been reported.

New York does not limit this field to physicians; dentists, podiatrists, psychologists, nurse/midwives, and other licensed health care professionals may be included. It is impossible to identify the different types of providers in the HCUP data.

Source physician identifiers are encrypted during HCUP processing.

In the 1998-2000 data, physician identifiers are missing (" ") on discharges with an indication of an induced abortion. New York identifies an indication of induced abortion by ICD-9-CM diagnosis or procedure code:

- An admitting, principal, or secondary diagnosis of '6350' through '6399', or '7796'.
- A principal or secondary procedure of '690', '695', 696', 6993', 738', 7491', '750', '751', or '9649'.

Please note that the admitting diagnosis is not retained in the HCUP databases.

Oregon

Beginning in the 1997 data files, Oregon supplied the attending physician number (MDID_S). This identifier may not accurately track physicians across hospitals. Oregon encourages hospitals to use Universal Physician Identification Numbers (UPINs), but not all hospitals do. Information was not available from the data source about the prevalence of this practice.

Pennsylvania

Pennsylvania reports the state license number for attending physicians (MDID_S).

South Carolina

South Carolina reports six-character state license numbers for attending physician identifiers. When the source values were shorter than six characters, the HCUP value was padded to bring it into conformity with South Carolina's format before the value was encrypted.

Tennessee

The attending physician identification number (MDID_S) may not accurately track physicians across hospitals. Tennessee collects two different types of physician identifiers, depending on the type of identifier provided by the hospitals. Tennessee prefers Universal Physician Identification Numbers (UPINs) but also accepts state license numbers.

Texas

Texas provides the state license number of the attending physician. During HCUP processing, physician identifiers are re-encrypted (MDID_S).

Virginia

Virginia reports Universal Physician Identification Numbers (UPINs). During HCUP processing, physician identifiers were encrypted (MDID_S).

West Virginia

The attending physician identifier (MDID_S) does not accurately track physicians across patients and hospitals. West Virginia collects different types of physician identifiers depending on the payer:

- The Universal Physician Identification Numbers (UPINs) are coded on Medicare patients.
- A West Virginia Medicaid physician identifier is coded on Medicaid patients. The same physician treating two different Medicaid patients can have two different physician identifiers. One identifier is used for new Medicaid patients; the other identifier is used for established Medicaid patients.
- The physician's state license number which starts with "WV" is coded on most commercial patients.

Some hospitals use their own physician identifiers and do not provide the UPIN, Medicaid and state license numbers.

NDX - Number of diagnoses on this discharge

General Notes

NDX indicates the total number of diagnoses (valid and invalid) coded on the discharge record. In assigning NDX, the principal diagnosis is included in the count, even if it is blank, so long as there is a secondary diagnosis present (see table below).

Value	Description
0	No diagnoses are coded on the record.
1	Only the principal diagnosis (DX1) is coded. All secondary diagnoses are blank.
2	One secondary diagnosis (DX2) is coded. The principal diagnosis (DX1) may be coded or blank.
3	The second and third diagnoses (DX2 and DX3) are coded. The principal diagnosis (DX1) may be coded or blank.
etc.	

A maximum of 15 diagnoses has been retained on a NIS inpatient record. States that provide fewer than 15 diagnoses have had the diagnosis vector padded with blank values. For example, if a state supplied 5 diagnoses, DX6 through DX15 are blank (" ") on all records from that state. States that provide more than 15 diagnoses may have information truncated. If an inpatient record from these states had more than 15 non-missing diagnoses, diagnoses in positions 16 and above were not included in the NIS file. If the number of diagnoses coded on this discharge (NDX) is greater than 15, secondary diagnoses have been truncated from the record.

The following table lists the maximum number of diagnoses reported by each state.

State	Number of Diagnoses Provided by the Data Source			
	1998	1999	2000	
Arizona	11	11	11	
California	30	30	30	
Colorado	15	15	15	
Connecticut	30	30	30	
Florida	10	10	10	

State	Number of Diagnoses Provided by the Data Source			
	1998	1999	2000	
Georgia	10	10	10	
Hawaii	11	11	11	
Illinois	9	9	9	
Iowa	11	11	11	
Kansas	30	30	30	
Kentucky	n/a	n/a	10	
Massachusetts	10	16	16	
Maryland	16	16	16	
Maine	n/a	10	10	
Missouri	30	30	30	
North Carolina	n/a	n/a	15	
New Jersey	10	10	10	
New York	17	17	17	
Oregon	11	11	11	
Pennsylvania	10	10	10	
South Carolina	10	10	10	
Tennessee	10	10	10	
Texas	n/a	n/a	10	
Utah	10	10	10	
Virginia	n/a	10	10	
Washington	10	10	10	
Wisconsin	10	10	10	
West Virginia	n/a	n/a	10	

Since on the NIS the number of diagnoses coded on the discharge (NDX) can be greater than the number of diagnoses available on the inpatient record, caution needs to be taken when using NDX to loop through the diagnoses. A counter for the loop should not extend past 15. Programming code such as the following example SAS statement is needed to take this into account:

DO I = 1 to MIN(15,NDX); Followed by code to process all diagnoses. END;

Uniform Values				
Variable	Description	Value	Value Description	
NDX	Number of diagnoses on this discharge	0 - 30	Number of diagnoses	

State Specific Notes

None

NEOMAT - Neonatal and/or maternal DX and/or PR

General Notes

NEOMAT identifies discharges with neonatal and/or maternal diagnoses and procedures.

Uniform Values				
Variable	Description	Value	Value Description	
NEOMAT Neonatal and/or maternal DX and/or PR	0	No neonatal or maternal diagnosis or procedure on record		
	1	Maternal diagnosis or procedure on record		
		2	Neonatal diagnosis on record	
		3	Neonatal diagnosis and maternal diagnoses or procedures on the same record	

State Specific Notes

None

NIS_STRATUM - Stratum used to post-stratify hospital

General Notes

NIS_STRATUM is a four-digit stratum identifier used to post-stratify hospitals for the calculation of universe and frame weights.

The hospital's census region, ownership/control, location/teaching, and bedsize were obtained from the AHA Annual Survey of Hospitals.

- A metropolitan statistical area is considered urban, and a non-metro statistical area is rural.
- Teaching hospitals have an AMA-approved residency program, are a member of the Council of Teaching Hospitals (COTH) or have a ratio of full-time equivalent interns and residents to beds of .25 or higher.
- Bedsize assesses the number of short-term acute beds in a hospital.

The hospital's bedsize category is nested within location and teaching status.

BEDSIZE CATEGORIES					
Location and Teaching Status	Hospital Bedsize				
Location and reaching Status	<u>Small</u>	<u>Medium</u>	<u>Large</u>		
NORTHEAST RI	EGION				
Rural	1-49	50-99	100+		
Urban, nonteaching	1-124	125-199	200+		
Urban, teaching	1-249	250-424	425+		
MIDWEST REC	GION				
Rural	1-29	30-49	50+		
Urban, nonteaching	1-74	75-174	175+		
Urban, teaching	1-249	250-374	375+		
SOUTHERN RE	SOUTHERN REGION				
Rural	1-39	40-74	75+		
Urban, nonteaching	1-99	100-199	200+		
Urban, teaching	1-249	250-449	450+		
WESTERN REGION					
Rural	1-24	25-44	45+		
Urban, nonteaching	1-99	100-174	175+		
Urban, teaching	1-199	200-324	325+		

Some strata were combined for sampling and weight calculations. Consequently, a given hospital's actual value for a stratifier may differ from those indicated by the value of NIS_STRATUM. Each hospital's actual values of stratifiers are contained in separate variables:

<u>Stratifier</u>	<u>1988-1992</u> <u>NIS</u>	<u>1993-1997</u> <u>NIS</u>	Beginning in 1998 NIS
Region	ST_REG	H_REGION	HOSP_REGION
Ownership/Control	ST_OWNER	H_CONTRL	HOSP_CONTROL
Location/Teaching	LOCTEACH	H_LOCTCH	HOSP_LOCTEACH
Bedsize	ST_BEDSZ	H_BEDSZ	HOSP_BEDSIZE

For detailed information about the NIS sampling design, see the year-specific report on the Design of the HCUP Nationwide Inpatient Sample.

	Uniform Values					
Variable	Description	Value	Value Description			
NIS_STRATUM	Stratum used to	Geographic region	Northeast (1)			
	post-stratify hospital		Midwest (2)			
	nospitai		South (3)			
			West (4)			
		Control	Government, nonfederal (1)			
			Private, not-for-profit (2)			
			Private, investor-owned (3)			
			Private, either not-for-profit or investor-owned (4)			
		Location/Teaching	Rural (1)			
			Urban nonteaching (2)			
			Urban teaching (3)			
		Bedsize	Small (1)			
			Medium (2)			
			Large (3)			

State Specific Notes

None

NPR - Number of procedures on this discharge

General Notes

NPR indicates the total number of ICD-9-CM procedures (valid and invalid) coded on the discharge record. In assigning NPR, the principal procedure is included in the count, even if it is blank, so long as there is a secondary procedure present (see table below).

Value	Description
0	No procedures are coded on the record.
1	Only the principal procedure (PR1) is coded. All secondary procedures are blank.
2	One secondary procedure (PR2) is coded. The principal procedure (PR1) may be coded or blank.
3	The second and third procedures (PR2 and PR3) are coded. The principal procedure (PR1) may be coded or blank.
etc.	

A maximum of 15 procedures have been retained on a NIS inpatient record. States that provide fewer than 15 procedures have had the procedure vector padded with blank values. For example, if a state supplied 5 procedures, PR6 through PR15 are blank (" ") on all records from that state. States that provide more than 15 procedures may have information truncated. If an inpatient record from these states had more than 15 non-missing procedures, procedures in positions 16 and above were not included in the NIS file. If the number of procedures coded on this discharge (NPR) is greater than 15, secondary procedures have been truncated from the record. The following table lists the maximum number of procedures reported by each state.

State		Number of Procedures Provided by the Data Source			
	1998	1999	2000		
Arizona	6	6	6		
California	21	21	21		
Colorado	15	15	15		
Connecticut	30	30	30		
Florida	10	10	10		
Georgia	6	6	6		

State	Number of Procedures Provided by the Data Source			
	1998	1999	2000	
Hawaii	10	10	10	
Illinois	6	6	6	
Iowa	6	6	6	
Kansas	25	25	25	
Kentucky	n/a	n/a	6	
Massachusetts	10	15	15	
Maryland	15	15	15	
Maine	n/a	10	6	
Missouri	25	25	25	
North Carolina	n/a	n/a	10	
New Jersey	8	8	8	
New York	15	15	15	
Oregon	6	6	6	
Pennsylvania	6	6	6	
South Carolina	10	10	10	
Tennessee	6	6	6	
Texas	n/a	n/a	6	
Utah	6	6	6	
Virginia	n/a	6	6	
Washington	6	6	6	
Wisconsin	6	6	6	
West Virginia	n/a	n/a	6	

Since NPR can be greater than the number of procedures available on the inpatient record, caution needs to be taken when using NPR to loop through the procedures. A counter for the loop should not extend past 15. Programming code such as the following example SAS statement is needed to take this into account:

DO I = 1 to MIN(15,NPR); Followed by code to process all procedures.END;

Uniform Values				
Variable	Description	Value	Value Description	
NPR	Number of procedures on this discharge	0 - 30	Number of procedures	

State Specific Notes

Pennsylvania

For 1995-1996 data only, some discharges have NPR greater than 0, and yet all procedure codes are missing. This is due to constraints of the HCUP processor in handling CPT and HCPCS codes. Pennsylvania reports ICD-9-CM procedure codes on most of their discharges, but some use CPT and HCPCS procedure codes. CPT and HCPCS procedure codes could not be retained in the HCUP data because they are 5 characters and the HCUP procedure fields are 4 characters in length. Discharges with CPT and HCPCS procedure codes were processed by HCUP as follows:

- PRSYS identifies the procedure coding system as CPT or HCPCS.
- NPR is the number of non-missing CPT or HCPCS procedure codes supplied by Pennsylvania.
- The HCUP procedure codes are set to missing (PRn = blank).

In other years, CPT and HCPCS codes are either masked or were handled differently in other years. See the Pennsylvania note on procedures (PRn) for specific details.

PAY1 - Expected primary payer, uniform

General Notes

PAY1 indicates the expected primary payer (Medicare, Medicaid, private insurance, etc.). To ensure uniformity of coding across data sources, PAY1 combines detailed categories in the more general groups. For example,

- Medicare includes both fee-for-service and managed care Medicare patients.
- Medicaid includes both fee-for-service and managed care Medicaid patients.
- Private insurance (PAY1 = 3) includes Blue Cross, commercial carriers, and private HMOs and PPOs.
- Other (PAY1 = 6) includes Worker's Compensation, CHAMPUS, CHAMPVA, Title V, and other government programs.

In the 1988-1997 data, the data element PAY1_N provides more detailed categories for private insurance and other payers. This data element is discontinued beginning in the 1998 data because of the difficulty of coding the information uniformly across States.

The HCUP data element PAY1_X retains the expected primary payer as provided by the data source. The State Specific Notes for PAY1 include information on how the source values contained in the PAY1_X are recoded into the HCUP uniform values of PAY1.

If information on secondary or tertiary payers is provided by the data source, the coding of the associated HCUP variables (PAY2, PAY2_X, and PAY3_X) is included under the State Specific Notes for PAY1.

HCUP is in the process of defining two new uniform payer variables that identify HMO and PPO payers (HMOPPO1 and HMOPPO2). These variables are under development and are not yet available on the HCUP Nationwide Inpatient Sample (NIS).

Uniform Values						
Variable	Description	Value	Value Description			
PAY1	Expected					
primary payer, uniform		2	Medicaid			
		3	Private insurance			
		4 Self-pay				
		5	No charge			
		6	Other			
		-	Missing			
		.A	Invalid			
		.B	Unavailable from source (coded in 1988-1997 data only)			

State Specific Notes

Arizona

	Arizona						
	(Valid beginning in 1998)						
	PAY1_X		PAY1	HN	MOPPO1		
Value	Description	Value	Description	Value	Description		
05, 5	Medicare	1	Medicare	0	Neither HMO nor PPO		
11	Medicare Risk	1	Medicare	1	HMO only		
04	Arizona Health Care Cost Containment System (AHCCCS) Health Care Group	2	Medicaid	3	Mixture of HMO and PPO (or POS)		
06	AHCCCS/Medicaid	2	Medicaid	0	Neither HMO nor PPO		
01	Commercial (Indemnity)	3	Private Insurance	0	Neither HMO nor PPO		
02	НМО	3	Private Insurance	1	HMO only		

03, 3	PPO	3	Private Insurance	2	PPO only
00	Self pay	4	Self pay	.N	Not applicable
12	Charity	5	No charge	.N	Not applicable
07	CHAMPUS/MEDEXCEL				
08	Children's Rehab Services				
09	Worker's Compensation				Not applicable
10	Indian Health Services	6	Other	.N	
13	Foreign National				
14	Other				
15	Tobacco Tax (Beginning in 1998)				
Blank	Missing	-	Missing	-	Missing
	alues not documented by ta source	.A	Invalid	.A	Invalid

	Arizona					
	(Valid from 1995-1997)					
	PAY1_X		PAY1			
Value	Description	Value	Description			
05, 5	Medicare	1	Medicare			
11	Medicare Risk		Medicare			
04	Arizona Health Care Cost Containment System (AHCCCS) Health Care Group	2	Medicaid			
06	AHCCCS/Medicaid					
01	Commercial (Indemnity)		Deixata			
02	НМО	3	Private Insurance			
03, 3	PPO		mourance			
00	Self pay	4	Self pay			
12	Charity	5	No charge			
07	CHAMPUS/MEDEXCEL	6	Other			
80	Children's Rehab Services					
09	Worker's Compensation					

10	Indian Health Services		
13	Foreign National		
14	Other		
15	Tobacco Tax (Beginning in 1998)		
Blank	Missing	-	Missing
Any va	alues not documented by the data source	.A	Invalid

	Arizona					
(Valid from 1989-1994)						
	PAY1_X		PAY1			
Value	Description	Value	Description			
3	Medicare	1	Medicare			
4	AHCCCS/Medicaid	2	Medicaid			
1	Commercial	3	Private			
2	HMO/PHP/Blue Cross	3	Insurance			
		4	Self-pay			
		5	No charge			
5	Other (self-pay, unknown, charity, etc.)	6	Other			
Blank		-	Missing			
Other Values		.A	Invalid			

California

	California							
	(Valid beginning in 1999)							
	PAY1_X PAY1 HMOPPO1							
Value	Description	Value	Description	Value	Description			
010	Medicare	1	Medicare	0	Fee for service (FFS)			
011	Medicare (HMO)	1	Medicare	1	HMO only			
012	Medicare (Managed care - Other)	1	Medicare	2	PPO only			
013	Medicare (fee for service)	1	Medicare	0	Fee for service (FFS)			

020	Medi-Cal	2	Medi-Cal	0	Fee for service (FFS)		
021	Medi-Cal (HMO)	2	Medi-Cal	1	HMO only		
022	Medi-Cal (Managed care - Other)	2	Medi-Cal	2	PPO only		
023	Medi-Cal (fee for service)	2	Medi-Cal	0	Fee for Service (FFS)		
030	Private Coverage	3	Private insurance	0	Fee for Service (FFS)		
031	Private Coverage (HMO)	3	Private insurance	1	HMO only		
032	Private Coverage (Managed care - Other)	3	Private insurance	2	PPO only		
033	Private Coverage (fee for service)	3	Private insurance	0	Fee for service (FFS)		
08n, where n=0-3	Self-pay	4	Self-pay	.N	Not applicable		
		5	No charge	.N	Not applicable		
04n, where n=0-3	Worker's Compensation						
05n, where n=0-3	County Indigent Programs						
06n, where n=0-3	Other Government	6	Other	6 Other .	6 Other	.N	Not applicable
07n, where n=0-3	Other Indigent (includes charity care)						
09n, where n=0-3	Other						

0, 000 Not reported	-	Missing		Missing
Any values not documented by the data source	.A	Invalid	.A	Invalid

The <u>first two digits</u> of PAY1_X describes the payer category (e.g., Medicare (01), Medi-Cal (02), Private coverage (03), Workers' Compensation (04), County Indigent Programs (05), Other Government (06), Other Indigent (07), Self Pay (08), and Other Payer (09)).

The third digit of PAY1_X describes the type of coverage (e.g., Knox-Keene (HMO)* or Medi-Cal County Organized Health Systems (MCOHS) plan (1), Managed Care Other (PPO, IPO, POS, etc.) (2), traditional coverage (fee for service) (3), and no coverage (0).

* HMOs are regulated in California under the Knox-Keene Health Care Service Plan Act of 1975.

	California					
(Valid in 1998)						
	PAY1_X		PAY1	HN	ИОРРО1	
Value	Description	Value	Description	Value	Description	
01	Medicare (Even if HMO or PPO)	1	Medicare		Can not distinguish HMO/PPO from FFS	
02	Medi-Cal (even if HMO or PPO)	2	Medicaid		Can not distinguish HMO/PPO from FFS	
07	НМО	3	Private insurance	1	HMO only	
08	PPO	3	Private insurance	2	PPO only	
09	Private Insurance Company (not HMO, not PPO)	3	Private insurance	0	Fee for service (FFS)	
10	Blue Cross/Blue Shield (not HMO, not PPO)	3	Private insurance	0	Fee for service (FFS)	
11	Self-pay	4	Self-pay	.N	Not	

					applicable
12	Charity	5	No charge	.N	Not
13	No Charge	5	ivo charge	.11	applicable
03	Worker's Compensation				
04	County Indigent Programs	6			Not applicable
05	CHAMPUS/CHAMPVA/VA		Other	.N	
06	Other Governmental				
14	Other Non-Governmental				
00, Blank	Missing	-	Missing	-	Missing
-	alues not documented by ta source	.A	Invalid	.A	Invalid

	California					
(Valid from 1995-1997)						
	PAY1_X		PAY1			
Value	Description	Value	Description			
01	Medicare (Even if HMO or PPO)	1	Medicare			
02	Medi-Cal (even if HMO or PPO)	2	Medicaid			
07	НМО					
80	PPO					
09	Private Insurance Company (not HMO, not PPO)	3	Private insurance			
10	Blue Cross/Blue Shield (not HMO, not PPO)					
11	Self-pay	4	Self-pay			
12	Charity	5	No charge			
13	No Charge		140 charge			
03	Worker's Compensation					
04	County Indigent Programs					
05	CHAMPUS/CHAMPVA/VA	6	Other			
06	Other Governmental					
14	Other Non-Governmental					
00, Blank	Missing	-	Missing			

Any values not documented by the data source	.A	Invalid	
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	California						
(Valid from 1988-1994)							
	PAY1_X		PAY1				
Value	Description	Value	Description				
01	Medicare	1	Medicare				
02	Medi-Cal	2	Medicaid				
06	Blue Cross/Blue Shield		D.: .1.				
07	Insurance Company	3	Private insurance				
08	HMO/PHP		modranoc				
09	Self-pay	4	Self-pay				
10	No-charge (free charity, special research, or teaching)	5	No charge				
04	Title V						
03	Workers' Compensation		Other				
05, 12	Other government; Medically indigent services under Section 17000	6					
11	Other non-government						
Blank	Valid before 1994:		Missing				
00	Valid in 1994:		Missing				
Other Values		.A	Invalid				

Colorado

	Colorado (Valid beginning in 1998)					
PAY1_X PAY1 HMOPPO1						
Value	Description	Value	Description	Value	Description	
04	Medicare	1	Medicare	-	Can not distinguish HMO/PPO	
05	Medicaid	2	Medicaid		Can not distinguish HMO/PPO	

01	Blue Cross/Blue Shield	3	Private insurance	-	Can not distinguish HMO/PPO
02	Commercial Ins/Indemnity Plans/Self Insured	3	Private Insurance	0	Neither HMO nor PPO
03	Other Liability Ins/No Fault/Casualty	3	Private Insurance	0	Neither HMO nor PPO
08	HMO- PPO/Managed Care/Discounted	3	Private Insurance	3	Mixture of HMO and PPO
12	Self-Pay	4	Self-pay	.N	Not applicable
13	No Charge/Charity Research	5	No charge	.N	Not applicable
06	Worker's Comp				
09	CHAMPUS				Not applicable
11	Other Government	6	Other	.N	
14	Other				
15	Colorado Medically Indigent				
00, Blank	Missing		Missing		Missing
Any ot	her values	.A	Invalid	.A	Invalid

	Colorado				
	(Valid from 1993-1997)				
	PAY1_X		PAY1		
Value	Description	Value	Description		
04	Medicare	1	Medicare		
05	Medicaid	2	Medicaid		
01	Blue Cross/Blue Shield				
02, 03	Commercial insurance/Indemnity plans/Self-insured; Other liability insurance/No fault/ Casualty	3	Private insurance		
80	HMO-PPO/Managed Care/Discounted				
12	Self-Pay	4	Self-pay		

13	No Charge/Charity/Research	5	No charge
06	Workers' Comp		
09	CHAMPUS		
11, 15	Other government; Colorado Medically Indigent	6	Other
14	1993-1996: Other		
Blank	Unknown		Missing
00	Starting in 1996: Missing		Missing
Other Values		.A	Invalid

Colorado						
(Valid from 1988-1992)						
	PAY1_X PAY1					
Value	Description	Value Description				
3	Medicare	1	Medicare			
4	Medicaid	2	Medicaid			
7	Blue Cross/Blue Shield					
8	Commercial insurance	3	Private insurance			
В	HMO-PPO					
1	Self-Pay	4	Self-pay			
9	No Charge	5	No charge			
5	Title V					
2	Workers' Compensation	6	Other			
6	Other government		Otrici			
A, C	Other; Other non-gov					
"00", blank	Unknown		Missing			
Other Values		.A	Invalid			

Connecticut

Connecticut				
(Valid beginning in 1998)				
PAY1_X and PAY2_X PAY1 and PAY2 HMOPPO1 and HMOPPO2				
Value Description	Value Description	Value Description		

С	Medicare	1	Medicare	0	Neither HMO or PPO
М	Medicare managed care	1	Medicare	1	HMO Only
D	Medicaid	2	Medicaid	0	Neither HMO or PPO
J	Medicaid managed care (effective date: SID - 1998-1999; SASD - 1998-1999)	2	Medicaid	1	HMO Only
J	Medicaid managed care (effective date: SID - beginning in 2000; SASD - beginning in 2000; SEDD - beginning in 1998))	2	Medicaid	1	Mixture of HMO and PPO (or POS)
F	Commercial Insurance	3	Private insurance	0	Neither HMO or PPO
G	Blue Cross (Blue Cross PPOs are coded as PPOs, value "T")	3	Private insurance	0	Neither HMO or PPO
S	НМО	3	Private insurance	1	HMO only
Т	PPO	3	Private insurance	2	PPO only
А	Self-pay	4	Self-pay	.N	Not applicable
R	No charge	5	No charge	.N	Not applicable
В	Worker's Comp				
E	Federal Program				Not
Н	Champus	6	Other	.N	Not applicable
I	Other				
Q	Title V				
Blank	Missing		Missing		Missing
	alues not nented by the data	.A	Invalid	.A	Invalid

Connecticut						
(Valid from 1993-1997)						
PAY	1_X and PAY2_X	PA	Y1 and PAY2			
Value	Description	Value	Description			
C, M (1997 only)	Medicare	1	Medicare			
D	Medicaid	2	Medicaid			
G	Blue Cross					
F, T	Commercial Insurance: PPO	3	Private Insurance			
S	HMO					
Α	Self-pay	4	Self-pay			
R	No charge	5	No charge			
Q	Title V					
В	Workers' Compensation					
Н	CHAMPUS	6	Other			
E	Other federal programs					
I	Other					
Blank			Missing			
Other Values		.A	Invalid			

Florida

	Florida						
	(Valid	l begin	ning in 1998)			
	PAY1_X PAY1 HMOPPO1						
Value	Description	Value	Description	Value	Description		
А	Medicare	1	Medicare	0	Fee for service (FFS)		
В	Medicare HMO	1	Medicare	1	HMO only		
С	Medicaid	2	Medicaid		Cannot distinguish HMO/PPO from FFS		
D	Medicaid HMO	2	Medicaid	1	HMO Only		
E	Commercial	3	Private	0	Fee for		

	Insurance		Insurance		service (FFS)
F	Commercial HMO	3	Private Insurance	1	HMO Only
G	Commercial PPO	3	Private Insurance	2	PPO only
L	Self pay/Under- insured (No third party coverage or less than 30% estimated insurance coverage)	4	Self-pay	.N	Not applicable
N	Charity	5	No charge	.N	Not applicable
Н	Worker's Compensation				Not applicable
I	Champus				
J	VA	6	Other	.N	
K	Other State/Local Government				
М	Other				
Blank	Missing		Missing		Missing
-	alues not nented by the data	.A	Invalid	.A	Invalid

	Florida				
	(Valid for 1997)				
	PAY1_X		PAY1		
Value	Description	Value	Description		
A, B	Medicare, Medicare HMO	1	Medicare		
C, D	Medicaid, Medicaid HMO	2	Medicaid		
E, G	Commercial insurance (includes self- insured and Blue Cross/Blue Shield); Commercial PPO	3	Private Insurance		
F	Commercial HMO				
L	Self-pay, charity, underinsured	4	Self-pay		
N	Charity	5	No charge		

Н	Workers' Compensation		
l, J	CHAMPUS; VA	S; VA 6	
K	Other state/local government		Other
M	Other		
Blank			Missing
Other values		.A	Missing

	Florida				
	(Valid from 1992-1996)				
	PAY1_X		PAY1		
Value	Description	Value	Description		
A, B	Medicare, Medicare HMO	1	Medicare		
C, D	Medicaid, Medicaid HMO	2	Medicaid		
E, G	Commercial insurance (includes self- insured and Blue Cross/Blue Shield); Commercial PPO	3	Private Insurance		
F	Commercial HMO				
L	Self-pay, charity, underinsured	4	Self-pay		
		5	No charge		
Н	Workers' Compensation				
I, J	CHAMPUS; VA	6	Other		
K	Other state/local government		Other		
M	Other				
Blank			Missing		
Other values		.A	Invalid		

	Florida				
	(Valid from 1988-1991	l)			
	PAY1_X PAY1				
Value	Description	Value	Description		
Α	Medicare	1	Medicare		
С	Medicaid	2	Medicaid		
E	Commercial insurance (includes	3	Private		

	self-insured and Blue Cross/Blue Shield)		Insurance
		4	Self-pay
		5	No charge
M	Other	6	Other
Blank		-	Missing
Other values		.A	Invalid

Georgia

	Georgia						
(Valid beginning in 1998)							
	PAY1_X		PAY1	ŀ	HMOPPO1		
Value	Description	Value	Description	Value	Description		
М	Medicare	1	Medicare	0	Neither HMO nor PPO		
U	Medicare Managed Care	1	Medicare	1	HMO only		
D	Medicaid	2	Medicaid	0	Neither HMO nor PPO		
А	Medicaid Managed Care	2	Medicaid	1	HMO only		
F	Medicaid Applicants	2	Medicaid	0	Neither HMO nor PPO		
G	Georgia Better Health	2	Medicaid	0	Neither HMO nor PPO		
В	Blue Cross/Blue Shield	3	Private Insurance		Can not distinguish HMO/PPOS from FFS		
Н	НМО	3	Private Insurance	1	HMO only		
	Commercial Insurance	3	Private Insurance	0	Neither HMO nor PPO		
K	Other Non- Specific Managed Care	3	Private Insurance	1	HMO only		
X	PPO	3	Private Insurance	2	PPO only		

6	POS (Point of Service)	3	Private Insurance	3	Mixture of HMO and PPO (or POS)
Р	Self-pay	4	Self-pay	.N	Not applicable
		5	No charge	.N	Not applicable
С	Champus				
E	County or State				
N	Other Government Assistance	6	Other	.N	Not applicable
W	Workers Compensation				
O, S, Y, Z, 8, Blank	Unknown, Missing	-	Missing	-	Missing
Any values not documented by the data source		.A	Invalid	.A	Invalid

Georgia						
(Valid for 1997)						
	PAY1_X		PAY1			
Value	Zalue Description		Description		Description	
M	Medicare	1	Medicare			
D	Medicaid	2	Medicaid			
В	Blue Cross and Blue Shield					
I, S	Other Insurance Companies; Self Insured	11.3	Private Insurance			
Н	HMO-PPO					
Р	Self-pay	4	Self-pay			
Z	Free	5	No charge			
W	Workers' Comp					
С	CHAMPUS	6	Other			
E, N	Other Government		Other			
L, O	Other					
3, 5, A, F, G, J, K, Y	Unknown		Missing			

Other values	.A	Invalid

Hawaii

	Hawaii						
	(Valid beginning in 1998)						
	PAY1_X		PAY1	HI	MOPPO1		
Value	Description	Value	Description	Value	Description		
1	Medicare	1	Medicare		Cannot distinguish HMO/PPO from FFS		
2	Medicaid	2	Medicaid	0	Neither HMO nor PPO		
13	QUEST	2	Medicaid	1	HMO only		
4	HMSA (Blue Cross/Blue Shield affiliate that provides HMO, PPO and Fee for Service plans)	3	Private Insurance		Cannot distinguish HMO/PPO from FFS		
5	Kaiser	3	Private Insurance	1	HMO only		
6	Other Insurance	3	Private Insurance		Can not distinguish HMO/PPO from FFS		
8	No Fault	3	Private Insurance		Cannot distinguish HMO/PPO from FFS		
7	Self pay	4	Self pay	.N	Not applicable		
		5	No charge	.N	Not applicable		
9	Worker's Compensation CHAMPUS/VA/Other Government	6	Other	.N	Not applicable		
12	Department of Defense				,,		

11, Blank Unknown, Missing	-	Missing		Missing
Any values not documented by the data source	.A	Invalid	.A	Invalid

	Hawaii					
	(Valid from 1996-1997)					
	PAY1_X		PAY1			
Value	Description	Value	Description			
"Medicare"	Medicare	1	Medicare			
"Medicaid", "SHIP", "Quest"	Medicaid; SHIP; Quest	2	Medicaid			
"Other Insurance", "HMSA", "No Fault"	Other Insurance, HMSA, No Fault	3	Private Insurance			
"Kaiser"	Kaiser					
"Self Pay"	Self-pay	4	Self-pay			
		5	No charge			
"Workers Comp"	Worker's Comp					
"Champus", "DOD"	CHAMPUS/VA/Other Government; Department of Defense	6	Other			
"Unknown", Blank	Unknown		Missing			
Other values		.A	Invalid			

Iowa

	lowa				
	(Valid	beginn	ing in 1998)		
	PAY1_X PAY1 HMOPPO1				
Value	Description	Value Description		Value	Description
01	Medicare (Title 18)	1	Medicare	0	Neither HMO or PPO
11	Medicare Managed Care (Presently no predominant plans in	1	Medicare	1	HMO only

	lowa)				
02	Medicaid (Title 19)	2	Medicaid	0	Neither HMO nor PPO
12	Medicaid Managed Care (e.g., Medipass, Heritage National, Care Choices, Principal Health Care)	2	Medicaid	3	Mixture of HMO and PPO (or POS)
06	Blue Cross (e.g., Blue Cross Alliance Select should be recorded as PPO; Blue Cross Unity Choice should be recorded as HMO)	3	Private Insurance	0	Neither HMO nor PPO
07	Commercial (private or group plans other than HMO, PPO, ODS)	3	Private Insurance	0	Neither HMO nor PPO
13	HMO (e.g., Care Choices, Medical Associates Health Plan, Inc., Principal Health Care of Iowa, Heritage National Healthplan, Inc., John Deere Family Health Plan, Principal Health Care of Nebraska, United Healthcare of the Midlands, Unity Choice)	3	Private Insurance	1	HMO only
14	PPO (e.g., Alliance Select, Healthcare Preferred, Plaines Health Network)	3	Private Insurance	2	PPO only
15	Organized Delivery Systems (ODS) (e.g., SecureCare of lowa)	3	Private Insurance	3	Mixture of HMO and PPO (or POS)

08	Self-pay (the patient has no insurance, is ineligible for governmental assistance and is not a "no charge" patient)	4	Self-pay	.N	Not applicable
10	No charge	5	No charge	.N	Not applicable
03	Other State (including State Papers)				
04	County	6	Other	.N	Not applicable
05	CHAMPUS				аррпсавіс
09	Workers Compensation				
Blank	Missing		Missing	•	Missing
-	alues not nented by the data	.A	Invalid	.A	Invalid

	lowa				
	(Valid from 1991-1997)				
	PAY1_X		PAY1		
Value	Description	Value	Description		
01	Medicare (Title 18)	1	Medicare		
02	Medicaid (Title 19)	2	Medicaid		
06	Blue Cross (of Iowa, Western Iowa, or other state Blue Cross plans)	3	Private Insurance		
08	Self-pay or relative	4	Self-pay		
		5	No charge		
09	Workers' Compensation				
03, 04, 05	Other state; county (including state papers); Other federal government (including CHAMPUS, Veterans, Title V, Railroad, Hill-Burton, Crippled Children, etc.)	6	Other		
Blank			Missing		

Other	^	lp, colid
Values	.A	Invalid

	lowa (Valid from 1988-1990)				
	PAY1_X		PAY1		
Value	Description	Value	Description		
01	Medicare (Title 18)	1	Medicare		
02	Medicaid (Title 19)	2	Medicaid		
06	Blue Cross (of Iowa, Western Iowa, or other state Blue Cross plans)	3	Private Insurance		
07	Commercial (private or group)		modrance		
08	Self-pay or relative	4	Self-pay		
		5	No charge		
09	Workers' Compensation				
03, 04, 05	Other state government; Other county government; Other federal government	6	Other		
10	Other non-government				
Blank			Missing		
Other Values		.A	Invalid		

Illinois

	Illinois				
	(Valid	beginni	ng in 1998)		
_	, PAY2_X, and PAY3_X	PAY	PAY1 and PAY2		OPPO1 and MOPPO2
Value	Description	Value	Description	Value	Description
A98910	Medicare	1	Medicare		Cannot distinguish HMO/PPO
B98916	Illinois Medicaid	2	Medicaid		Cannot distinguish HMO/PPO
B98917	Other Medicaid	2	Medicaid		Cannot distinguish HMO/PPO

Cnnn, where nnn is a 3-digit number	Blue Cross Insurance	3	Private Insurance		Cannot distinguish HMO/PPO
Cnnnnnnnnn, where nnnnnnnnn is a 9-digit number	(may include	3	Private Insurance		Cannot distinguish HMO/PPO
C98920	Other Commercial Insurance	3	Private Insurance	-	Cannot distinguish HMO/PPO
Dnnnnnnnn, where nnnnnnnnn is a 9-digit number	Commercial HMO	3	Private Insurance	1	HMO only
Ennnnnnnnn, where nnnnnnnnn is a 9-digit number	Self- administered or Self- insured plans	3	Private Insurance		Cannot distinguish HMO/PPO
E98930	Other Self- administered or Self- insured plans	3	Private Insurance		Cannot distinguish HMO/PPO
F98918	Self-pay	4	Self-pay	.N	Not applicable
H98912	Charity				Not
H98913	Hill Burton Free Care	5	No charge	.N	applicable
H98911	Black Lung				
H98914	CHAMPUS	6	Other	.N	Not
H98915	CHAMPVA	O	Ouiel	.IN	applicable
H98919	Miscellaneous				
Blank	Missing		Missing		Missing
_	Any values not documented by the data source		Invalid	.A	Invalid
Primary, secondary, and tertiary expected payer information was provided in two fields: a one character payer category ("A" through					

"H") and detailed payer identifier of 3, 5, or 9 digits. The 3-digit identifiers refer to Blue Cross plans, but no source documentation was available to link the 3-digit identifier to a Blue Cross plan name. The 9-digit identifiers refer to commercial, HMO, and self-administered plans, but no source documentation was available to link the 9-digit identifier to a plan name. The Illinois Department of Insurance may have a list of the plan names for the 9-digit codes. All 5-digit identifiers were named. This information is included in the above table.

The one-character payer category and the detailed payer identifier were concatenated together to create the HCUP variables PAY1_X, PAY2 X, and PAY3 X.

During HCUP processing, PAY1/PAY2 and HMOPPO1/HMOPPO2 were assigned using the first character of PAY1_X/PAY2_X (e.g., "A", "B", "C", etc.) with the following exception. When PAY1_X/PAY2_X started with "H", PAY1/PAY2 and HMOPPO1/HMOPPO2 were assigned using the 6 character code.

	Illinois				
(Valid from 1995-1997)					
PAY1_	PAY1_X, PAY2_X				
Value	Description Value		Description		
A98910	Medicare	1	Medicare		
B98916	Illinois Medicaid	2	Medicaid		
B98917	Other Medicaid	2	Medicaid		
Cnnn, where nnn is a 3-digit number	Blue Cross Insurance	3	Private Insurance		
Cnnnnnnnnn, where nnnnnnnnn is a 9-digit number	Commercial Insurance (may include TPA and Worker's Compensation coverage)				
C98920	Other Commercial Insurance				
Dnnnnnnnnn, where nnnnnnnnn is a 9-digit number	Commercial HMO				
Ennnnnnnnn, where nnnnnnnnn is a 9-digit number	Self-administered or Self-insured plans				

E98930	Other Self-administered or Self-insured plans		
F98918	Self-pay	4	Self-pay
H98912	Charity	5 No charge	
H98913	Hill Burton Free Care	5 No charge	
H98911	Black Lung		
H98914	CHAMPUS	6	Other
H98915	CHAMPVA		Other
H98919	Miscellaneous		
Blank	Missing		Missing
Any values not documented by the data source		.A	Invalid

Primary, secondary, and tertiary expected payer information was provided in two fields: a one character payer category ("A" through "H") and detailed payer identifier of 3, 5, or 9 digits. The 3-digit identifiers refer to Blue Cross plans, but no source documentation was available to link the 3-digit identifier to a Blue Cross plan name. The 9-digit identifiers refer to commercial, HMO, and self-administered plans, but no source documentation was available to link the 9-digit identifier to a plan name. The Illinois Department of Insurance may have a list of the plan names for the 9-digit codes. All 5-digit identifiers were named. This information is included in the above table.

The one-character payer category and the detailed payer identifier were concatenated together to create the HCUP variables PAY1_X, PAY2_X, and PAY3_X.

During HCUP processing, PAY1/PAY2 were assigned using the first character of PAY1_X/PAY2_X (e.g., "A", "B", "C", etc.) with the following exception. When PAY1_X/PAY2_X started with "H", PAY1/PAY2 were assigned using the 6 character code.

Illinois				
(Valid from 1993-1994)				
PAY1_X, PAY2_X PAY1 and PAY2				
Value	Description	Value	Description	
Α	Medicare	1	Medicare	
В	Medicaid	2	Medicaid	

C, E	Commercial, PPO; Self-administered	3	Private Insurance
D	НМО		modranoo
F	Self-pay	4	Self-pay
		5	No charge
Н	Other	6	Other
Blank			Missing
Other Values		.A	Invalid

Illinois (Valid from 1988-1992)			
Value	Description	Value	Description
98910	Medicare	1	Medicare
98916	Illinois Medicaid	2	Medicaid
98917	Other Medicaid		
3-digit codes	Blue Cross Insurance	3	Private Insurance
061055955	HMO/PHP	3	Private Insurance
232312490	HMO/PHP	3	Private Insurance
237137598	HMO/PHP	3	Private Insurance
361236610	HMO/PHP	3	Private Insurance
362171705	HMO/PHP	3	Private Insurance
362302593	HMO/PHP	3	Private Insurance
362748320	HMO/PHP	3	Private Insurance
362835382	HMO/PHP	3	Private Insurance
362858588	HMO/PHP	3	Private Insurance

363050287	HMO/PHP	3	Private Insurance
363156930	HMO/PHP	3	Private Insurance
363208585	HMO/PHP	3	Private Insurance
363232147	HMO/PHP	3	Private Insurance
363242084	HMO/PHP	3	Private Insurance
363251800	HMO/PHP	3	Private Insurance
363257067	HMO/PHP	3	Private Insurance
363261533	HMO/PHP	3	Private Insurance
363280214	HMO/PHP	3	Private Insurance
363290114	HMO/PHP	3	Private Insurance
363293099	HMO/PHP	3	Private Insurance
363300107	HMO/PHP	3	Private Insurance
363303922	HMO/PHP	3	Private Insurance
363303927	HMO/PHP	3	Private Insurance
363333675	HMO/PHP	3	Private Insurance
363334929	HMO/PHP	3	Private Insurance
363346492	HMO/PHP	3	Private Insurance
363357619	HMO/PHP	3	Private Insurance
363359925	HMO/PHP	3	Private Insurance
363363036	HMO/PHP	3	Private Insurance

			Dairente
363379945	HMO/PHP	3	Private Insurance
363385638	HMO/PHP	3	Private Insurance
363387762	HMO/PHP	3	Private Insurance
363410844	HMO/PHP	3	Private Insurance
363426222	HMO/PHP	3	Private Insurance
363447577	HMO/PHP	3	Private Insurance
363464332	HMO/PHP	3	Private Insurance
363513970	HMO/PHP	3	Private Insurance
363576982	HMO/PHP	3	Private Insurance
363617971	HMO/PHP	3	Private Insurance
363617971	HMO/PHP	3	Private Insurance
363784962	HMO/PHP	3	Private Insurance
363807756	HMO/PHP	3	Private Insurance
363837523	HMO/PHP	3	Private Insurance
363864486	HMO/PHP	3	Private Insurance
371076964	HMO/PHP	3	Private Insurance
371105481	HMO/PHP	3	Private Insurance
371139917	HMO/PHP	3	Private Insurance
371153402	HMO/PHP	3	Private Insurance
371190216	HMO/PHP	3	Private Insurance

371192892	HMO/PHP	3	Private
07404000	LINAO (DLID		Insurance Private
371216698	HMO/PHP	3	Insurance
371221007	HMO/PHP	3	Private Insurance
371241037	HMO/PHP	3	Private Insurance
371260731	HMO/PHP	3	Private Insurance
376000511	HMO/PHP	3	Private Insurance
421172640	HMO/PHP	3	Private Insurance
421282065	HMO/PHP	3	Private Insurance
431131852	HMO/PHP	3	Private Insurance
431141117	HMO/PHP	3	Private Insurance
431361841	HMO/PHP	3	Private Insurance
431372307	HMO/PHP	3	Private Insurance
431386495	HMO/PHP	3	Private Insurance
541252797	HMO/PHP	3	Private Insurance
611013183	HMO/PHP	3	Private Insurance
611056884	HMO/PHP	3	Private Insurance
741844335	HMO/PHP	3	Private Insurance
953762261	HMO/PHP	3	Private Insurance
954053288	HMO/PHP	3	Private Insurance
963762261	HMO/PHP	3	Private Insurance

98920	Other commercial insurance	3	Private Insurance
98930	Other self-administered or self-insured plans	3	Private Insurance
98918	Self-pay	4	Self-pay
98912	Charity	5	No charge
98913	Hill Burton Free Care	5	No Charge
020140690	Workers' Compensation	6	Other
020172170	Workers' Compensation	6	Other
020177030	Workers' Compensation	6	Other
020304627	Workers' Compensation	6	Other
020308052	Workers' Compensation	6	Other
020311919	Workers' Compensation	6	Other
020342937	Workers' Compensation	6	Other
020349547	Workers' Compensation	6	Other
030316876	Workers' Compensation	6	Other
041027270	Workers' Compensation	6	Other
041282020	Workers' Compensation	6	Other
041288420	Workers' Compensation	6	Other
041543470	Workers' Compensation	6	Other
041590940	Workers' Compensation	6	Other
041924000	Workers' Compensation	6	Other
042177185	Workers' Compensation	6	Other
042475442	Workers' Compensation	6	Other
042656602	Workers' Compensation	6	Other
042680300	Workers' Compensation	6	Other
042739160	Workers' Compensation	6	Other
042794993	Workers' Compensation	6	Other
042974375	Workers' Compensation	6	Other
043058503	Workers' Compensation	6	Other
043058504	Workers' Compensation	6	Other
046017710	Workers' Compensation	6	Other
050303803	Workers' Compensation	6	Other
050393243	Workers' Compensation	6	Other
060237820	Workers' Compensation	6	Other

060291290	Workers' Compensation	6	Other
060294398	Workers' Compensation	6	Other
060303275	Workers' Compensation	6	Other
060303520	Workers' Compensation	6	Other
060336212	Workers' Compensation	6	Other
060383030	Workers' Compensation	6	Other
060464510	Workers' Compensation	6	Other
060480695	Workers' Compensation	6	Other
060529570	Workers' Compensation	6	Other
060566050	Workers' Compensation	6	Other
060640218	Workers' Compensation	6	Other
060732738	Workers' Compensation	6	Other
060848755	Workers' Compensation	6	Other
060876835	Workers' Compensation	6	Other
060907370	Workers' Compensation	6	Other
060949141	Workers' Compensation	6	Other
061008026	Workers' Compensation	6	Other
061008792	Workers' Compensation	6	Other
061010609	Workers' Compensation	6	Other
061024360	Workers' Compensation	6	Other
061053492	Workers' Compensation	6	Other
061055955	Workers' Compensation	6	Other
061067463	Workers' Compensation	6	Other
061092819	Workers' Compensation	6	Other
061117063	Workers' Compensation	6	Other
061182357	Workers' Compensation	6	Other
061206728	Workers' Compensation	6	Other
061222527	Workers' Compensation	6	Other
061325038	Workers' Compensation	6	Other
066032187	Workers' Compensation	6	Other
066033504	Workers' Compensation	6	Other
066033509	Workers' Compensation	6	Other
066105395	Workers' Compensation	6	Other
131675535	Workers' Compensation	6	Other
131941868	Workers' Compensation	6	Other

131941984	Workers' Compensation	6	Other
131963495	Workers' Compensation	6	Other
131963496	Workers' Compensation	6	Other
131988169	Workers' Compensation	6	Other
132559805	Workers' Compensation	6	Other
132611663	Workers' Compensation	6	Other
132653231	Workers' Compensation	6	Other
132661002	Workers' Compensation	6	Other
132669000	Workers' Compensation	6	Other
132673100	Workers' Compensation	6	Other
132758523	Workers' Compensation	6	Other
132781282	Workers' Compensation	6	Other
132791458	Workers' Compensation	6	Other
132832845	Workers' Compensation	6	Other
135277930	Workers' Compensation	6	Other
135283360	Workers' Compensation	6	Other
135303710	Workers' Compensation	6	Other
135316370	Workers' Compensation	6	Other
135339725	Workers' Compensation	6	Other
135358230	Workers' Compensation	6	Other
135379820	Workers' Compensation	6	Other
135459190	Workers' Compensation	6	Other
135460208	Workers' Compensation	6	Other
135481330	Workers' Compensation	6	Other
135539046	Workers' Compensation	6	Other
135540698	Workers' Compensation	6	Other
135616275	Workers' Compensation	6	Other
135617450	Workers' Compensation	6	Other
135669461	Workers' Compensation	6	Other
136081895	Workers' Compensation	6	Other
136104845	Workers' Compensation	6	Other
136107326	Workers' Compensation	6	Other
136108722	Workers' Compensation	6	Other
150476880	Workers' Compensation	6	Other
156020948	Workers' Compensation	6	Other

Workers' Compensation	6	Other
Workers' Compensation	6	Other
	Workers' Compensation	Workers' Compensation

251118791	Workers' Compensation	6	Other
310396250	Workers' Compensation	6	Other
310501234	Workers' Compensation	6	Other
310542366	Workers' Compensation	6	Other
310708754	Workers' Compensation	6	Other
310826946	Workers' Compensation	6	Other
310926059	Workers' Compensation	6	Other
310970750	Workers' Compensation	6	Other
311160863	Workers' Compensation	6	Other
311241230	Workers' Compensation	6	Other
314177100	Workers' Compensation	6	Other
314177110	Workers' Compensation	6	Other
314316080	Workers' Compensation	6	Other
314423946	Workers' Compensation	6	Other
340368340	Workers' Compensation	6	Other
340438190	Workers' Compensation	6	Other
341022544	Workers' Compensation	6	Other
341172650	Workers' Compensation	6	Other
341316396	Workers' Compensation	6	Other
341532771	Workers' Compensation	6	Other
346513736	Workers' Compensation	6	Other
346516838	Workers' Compensation	6	Other
350145400	Workers' Compensation	6	Other
350198580	Workers' Compensation	6	Other
350293728	Workers' Compensation	6	Other
350293730	Workers' Compensation	6	Other
350410010	Workers' Compensation	6	Other
350410420	Workers' Compensation	6	Other
350913391	Workers' Compensation	6	Other
350988041	Workers' Compensation	6	Other
351044900	Workers' Compensation	6	Other
351288885	Workers' Compensation	6	Other
351372324	Workers' Compensation	6	Other
351492884	Workers' Compensation	6	Other
351495207	Workers' Compensation	6	Other

Workers' Compensation	6	Other
Workers' Compensation	6	Other
	Workers' Compensation	Workers' Compensation 6

362678778	Workers' Compensation	6	Other
362690333	Workers' Compensation	6	Other
362694846	Workers' Compensation	6	Other
362704643	Workers' Compensation	6	Other
362704802	Workers' Compensation	6	Other
362705935	Workers' Compensation	6	Other
362709121	Workers' Compensation	6	Other
362711653	Workers' Compensation	6	Other
362719165	Workers' Compensation	6	Other
362722478	Workers' Compensation	6	Other
362738349	Workers' Compensation	6	Other
362742183	Workers' Compensation	6	Other
362748320	Workers' Compensation	6	Other
362748795	Workers' Compensation	6	Other
362753986	Workers' Compensation	6	Other
362755546	Workers' Compensation	6	Other
362756532	Workers' Compensation	6	Other
362759195	Workers' Compensation	6	Other
362760101	Workers' Compensation	6	Other
362763106	Workers' Compensation	6	Other
362781080	Workers' Compensation	6	Other
362789296	Workers' Compensation	6	Other
362797073	Workers' Compensation	6	Other
362797074	Workers' Compensation	6	Other
362811124	Workers' Compensation	6	Other
362857399	Workers' Compensation	6	Other
362874262	Workers' Compensation	6	Other
362930605	Workers' Compensation	6	Other
362944577	Workers' Compensation	6	Other
362950161	Workers' Compensation	6	Other
362994662	Workers' Compensation	6	Other
362999368	Workers' Compensation	6	Other
362999370	Workers' Compensation	6	Other
363027848	Workers' Compensation	6	Other
363028761	Workers' Compensation	6	Other

Workers' Compensation	6	Other
Workers' Compensation	6	Other
	Workers' Compensation	Workers' Compensation 6

363789787	Workers' Compensation	6	Other
363806723	Workers' Compensation	6	Other
366033855	Workers' Compensation	6	Other
366033921	Workers' Compensation	6	Other
366042949	Workers' Compensation	6	Other
366043106	Workers' Compensation	6	Other
366049887	Workers' Compensation	6	Other
366054328	Workers' Compensation	6	Other
366064756	Workers' Compensation	6	Other
366067575	Workers' Compensation	6	Other
366071400	Workers' Compensation	6	Other
366077839	Workers' Compensation	6	Other
366084669	Workers' Compensation	6	Other
366115679	Workers' Compensation	6	Other
370268670	Workers' Compensation	6	Other
370277830	Workers' Compensation	6	Other
370301640	Workers' Compensation	6	Other
370344310	Workers' Compensation	6	Other
370396180	Workers' Compensation	6	Other
370420520	Workers' Compensation	6	Other
370530080	Workers' Compensation	6	Other
370533080	Workers' Compensation	6	Other
370533100	Workers' Compensation	6	Other
370558630	Workers' Compensation	6	Other
370637646	Workers' Compensation	6	Other
370807507	Workers' Compensation	6	Other
370815476	Workers' Compensation	6	Other
370855395	Workers' Compensation	6	Other
370915434	Workers' Compensation	6	Other
371054042	Workers' Compensation	6	Other
371111076	Workers' Compensation	6	Other
371184187	Workers' Compensation	6	Other
371277771	Workers' Compensation	6	Other
376028411	Workers' Compensation	6	Other
380315280	Workers' Compensation	6	Other

380828980	Workers' Compensation	6	Other
380829210	Workers' Compensation	6	Other
380865250		6	Other
	Workers' Compensation		
381184490	Workers' Compensation	6	Other
381630841	Workers' Compensation	6	Other
381869912	Workers' Compensation	6	Other
382145898	Workers' Compensation	6	Other
382312731	Workers' Compensation	6	Other
382430150	Workers' Compensation	6	Other
390264050	Workers' Compensation	6	Other
390273710	Workers' Compensation	6	Other
390301590	Workers' Compensation	6	Other
390333950	Workers' Compensation	6	Other
390475300	Workers' Compensation	6	Other
390712210	Workers' Compensation	6	Other
390941450	Workers' Compensation	6	Other
390972608	Workers' Compensation	6	Other
391190263	Workers' Compensation	6	Other
391338397	Workers' Compensation	6	Other
391341459	Workers' Compensation	6	Other
391401314	Workers' Compensation	6	Other
396058596	Workers' Compensation	6	Other
396062860	Workers' Compensation	6	Other
410299900	Workers' Compensation	6	Other
410406690	Workers' Compensation	6	Other
410417460	Workers' Compensation	6	Other
410729473	Workers' Compensation	6	Other
410881659	Workers' Compensation	6	Other
410963301	Workers' Compensation	6	Other
410986076	Workers' Compensation	6	Other
411232071	Workers' Compensation	6	Other
411353943	Workers' Compensation	6	Other
520976199	Workers' Compensation	6	Other
521050076	Workers' Compensation	6	Other
420111280	Workers' Compensation	6	Other

Workers' Compensation	6	Other
Workers' Compensation	6	Other
	Workers' Compensation	Workers' Compensation Workers' Compensation

Workers' Compensation	6	Other
Workers' Compensation	6	Other
		Other
	Workers' Compensation	Workers' Compensation 6

Workers' Compensation	6	Other
Workers' Compensation	6	Other
CHAMPUS	6	Other
CHAMPVA	6	Other
Black Lung	6	Other
Miscellaneous	6	Other
Unknown	-	Missing
	.A	Invalid
	Workers' Compensation Compensation Workers' Compensation	Workers' Compensation 6

Kansas

Kansas				
(Valid beginning in 1993)				
PAY1_X and PAY2_X PAY1 and PAY2				
Value	Description	Value	Description	

1	Medicare	1	Medicare	
2	Medicaid	2	Medicaid	
3	Blue Cross	3	Private	
4	Commercial		Insurance	
5	Self-pay	4	Self-pay	
		5	No charge	
6	Other	6	Other	
Blank	Blank Missing		Missing	
Any values not documented by the data source .A Invalid				
Separate information on HMO and PPO providers is not provided.				

Kentucky

	Kentucky						
PA	PAY1_X, PAY2_X, PAY1 and PAY2		II.	MOPPO1 and HMOPPO2			
Value	Description	Value	Description	Value	Description		
С	Medicare	1	Medicare		Can not distinguish HMO/PPO from FFS		
D	Medicaid	2	Medicaid		Can not distinguish HMO/PPO from FFS		
F	Commercial - Unknown	3	Private insurance		Can not distinguish HMO/PPO from FFS		
G	Commercial - Unknown (BC/BS)	3	Private insurance		Can not distinguish HMO/PPO from FFS		
J	Commercial - Indemnity	3	Private insurance	0	Fee for service (FFS)		
K	Commercial - Preferred Provider	3	Private insurance	2	PPO Only		
L	Commercial - HMO	3	Private insurance	1	HMO Only		

М	Commercial - Managed Care	3	Private insurance	3	Mixture of HMO and PPO (or POS)
Α	Self Pay	4	Self-pay	.N	Not applicable
		5	No charge	.N	Not applicable
В	Workers' Compensation				
E	Other Federal programs	6	Other	.N	Not applicable
Н	Champus				
I	Other				
Blank	Missing	-	Missing		Missing
-	alues not nented by the data	.A	Invalid	.A	Invalid

Massachusetts

Massachusetts							
	(Valid beginning in 1998)						
PAY	1_X and PAY2_X	PAY	PAY1 and PAY2		OPPO1 and IMOPPO2		
Value	Description	Value	Description	Value	Description		
3	Medicare	1	Medicare	0	Fee for Service (FFS)		
F	Medicare Managed Care	1	Medicare	1	HMO only		
4	Medicaid	2	Medicaid	0	Fee for Service (FFS)		
В	Medicaid Managed Care	2	Medicaid	3	Mixture of HMO and PPO (or POS)		
6	Blue Cross	3	Private Insurance	0	Fee for Service (FFS)		
С	Blue Cross Managed Care	3	Private Insurance	3	Mixture of HMO and PPO (or POS)		
7	Commercial Insurance	3	Private Insurance	0	Fee for Service (FFS)		
D	Commercial	3	Private	3	Mixture of		

	Managed Care		Insurance		HMO and PPO (or POS)
8	НМО	3	Private Insurance	1	HMO Only
E	PPO and Other Managed Care not listed elsewhere	3	Private Insurance	2	PPO Only
J	Point of Service Plan	3	Private Insurance	3	Mixture of HMO and PPO (or POS)
K	Exclusive Provider Plan	3	Private Insurance	3	Mixture of HMO and PPO (or POS)
1	Self-pay	4	Self-pay	.N	Not applicable
9	Free care (no charge)	5	No charge	.N	Not applicable
2	Worker's Compensation				
5	Other government payment				
0	Other non- managed care plans	6	Other	.N	Not applicable
A	Other or principal source of payment covered in full				
N, Blank	None, Missing	-	Missing	-	Missing
	alues not nented by the data	.A	Invalid	.A	Invalid

Massachusetts					
	(Valid from 1996-1997)				
	PAY1_X and PAY2_X PAY1 and PAY2				
Value	Description	Value	Description		
3, F	Medicare; Medicare managed care	1	Medicare		

4, B	Medicaid; Medicaid managed care	2	Medicaid	
6, C	Blue Cross; Blue Cross managed care			
7, D, E	Commercial Insurance; Commercial managed care; PPO and other managed care not listed elsewhere	3	Private Insurance	
8, J	HMO; Point of Service (added 4th Qtr 1997)			
1	Self-pay	4	Self-pay	
9	Free care (no charge)	5	No charge	
2	Worker's Compensation			
5	Other government payment		Other	
0	Primary Payer: Other non-managed care	6		
0, A	Secondary Payer: Other non- managed care; Other or principal source of payment covered in full			
Blank	Primary Payer:		Missing	
Blank	Secondary Payer:		Missing	
Other values		.A	Invalid	

	Massachusetts				
	(Valid from Quarter 4 1993 throug	gh 1998	5)		
	PAY1_X and PAY2_X	PAY	1 and PAY2		
Value	Description	Value	Description		
3, F	Medicare; Medicare managed care	1	Medicare		
4, B	Medicaid; Medicaid managed care	2	Medicaid		
6, C	Blue Cross; Blue Cross managed care	3			
7, D	Commercial Insurance; Commercial managed care		Private Insurance		
8, J	НМО				
1	Self-pay	4	Self-pay		
9	Free care (no charge)	5	No charge		
2	Workers' Compensation	6	Other		
5	Other government payment				

0, E	Primary Payer: Other non-managed care; PPO and other managed care not listed elsewhere		
0, A, E	Secondary Payer: Other non- managed care; Other or principal source of payment covered in full; PPO and other managed care not listed elsewhere		
Blank	Primary Payer:	-	Missing
"N",Blank	Secondary Payer:None		Missing
Other values		.A	Invalid

Massachusetts					
(Valid from 1988 through Quarters 1-3, 1995)					
	PAY1_X and PAY2_X PAY1 and PAY2				
Value	Description	Value	Description		
3	Medicare	1	Medicare		
4	Medicaid	2	Medicaid		
6	Blue Cross		Deicata		
7	Commercial Insurance	3	Private Insurance		
8	НМО				
1	Self-pay	4	Self-pay		
9	Free care (no charge)	5	No charge		
2	Workers' Compensation				
5	Other government payment				
0	Primary Payer: Other	6	Other		
0, A	Secondary Payer: Other; Other or principal source of payment covered in full				
Blank	Primary Payer:		Missing		
"N",Blank	Secondary Payer:None	-	Missing		
Other values		.A	Invalid		

Maine

	Maine					
(Valid beginning in 1999)						
PAY1_X, PAY2_X, PAY3_X PAY1, PAY			Y1, PAY 2	НМОРРО1		
Value	Description	Value	Description	Value	Description	
01	Medicare	1	Medicare		Cannot distinguish HMO/PPO from FFS	
02	Medicaid	2	Medicaid		Cannot distinguish HMO/PPO from FFS	
05	Blue Cross	3	Private insurance		Cannot distinguish HMO/PPO from FFS	
06	Other commercial carriers	3	Private insurance		Cannot distinguish HMO/PPO from FFS	
10	НМО	3	Private insurance	1	HMO Only	
08	Self-pay	4	Self-pay	.N	Not applicable	
07	Charity	5	No charge	.N	Not applicable	
03	U.S. Title V					
04	CHAMPUS/USVA	6	Other	.N	Not	
09	Worker's Compensation				applicable	
11	Other or Unknown		Missing	.N	Not	
Blank	Missing		g		applicable	
	llues not ented by the data	.A	Invalid	.A	Invalid	

Maryland

	Maryland (Valid beginning in 1998)					
P	AY1_X and PAY2_X	PAY'	1 and PAY2		OPPO1 and MOPPO2	
Value	Description	Value	Description	Value	Description	
01	Medicare	1	Medicare	0	Neither HMO nor PPO	
15	Medicare HMO (payer specified in PAYER1_X/PAYER2_X)	1	Medicare	1	HMO only	
02	Medicaid	2	Medicaid	0	Neither HMO nor PPO	
14	Medicaid HMO (payer specified in PAYER1_X/PAYER2_X)	2	Medicaid	1	HMO only	
04	Blue Cross of MD	3	Private Insurance	0	Neither HMO nor PPO	
16	Blue Cross of the National Capital Area (HMO)	3	Private Insurance	1	HMO only	
17	Blue Cross (other state)	3	Private Insurance		Cannot distinguish HMO/PPO	
05	Commercial/PPO	3	Private Insurance		Cannot distinguish HMO/PPO	
12	Managed Care (payer specified in PAYER1_X/ PAYER2_X)	3	Private Insurance	1	HMO only	
08	Self-pay	4	Self-pay	.N	Not applicable	
09	Charity - no charge	5	No charge	.N	Not applicable	
03	Title V	6	Other	.N	Not	
06	Other government program				applicable	

07	Worker's Compensation				
10	Other				
11	Donor				
77	Not Applicable (Secondary payer only)		Minning		N dia aira a
99	Unknown		Missing		Missing
Blank	Missing				
13	Do not use				
	alues not documented by ta source	.A	Invalid	.A	Invalid

Maryland						
	(Valid from 1996-1997)					
	PAY1_X and PAY2_X PAY1 and PAY2					
Value	Description	Value	Description			
1, 15	Medicare; Medicare HMO	1	Medicare			
2,14	Medicaid; Medicaid HMO	2	Medicaid			
4, 16, 17	Blue Cross; Blue Cross NCA; Blue Cross - other State		Private			
5	Commercial Insurance	3	Insurance			
12	НМО					
8	Self-pay	4	Self-pay			
9	Charity	5	No charge			
3	Title V					
7	Workers' Compensation	6	Other			
6	Other government program		Other			
10, 11	Other; Donor					
99, blank	Primary Payer Unknown; missing		Missing			
99, 77, blank	Secondary Payer Unknown; not applicable; missing		Missing			
Other Values		.A	Invalid			

Maryland	
(Valid from 1993-1995)	

	PAY1_X and PAY2_X	PA	1 and PAY2
Value	Description	Value	Description
1	Medicare	1	Medicare
2, 13,14	Medicaid; Medicaid (state only); Medicaid HMO	2	Medicaid
4	Blue Cross		Deirecto
5	Commercial Insurance	3	Private Insurance
12	НМО		
8	Self-pay	4	Self-pay
9	Charity	5	No charge
3	Title V		Other
7	Workers' Compensation	6	
6	Other government program		Otriei
10, 11	Other; Donor		
99, blank	Primary Payer Unknown; missing	-	Missing
99, 77, blank	Secondary Payer Unknown; not applicable; missing		Missing
Other Values		.A	Invalid

	Maryland					
	(Valid from 1990-1992)					
	PAY1_X and PAY2_X	PA	Y1 and PAY2			
Value	Description	Value	Description			
1	Medicare	1	Medicare			
2, 13,14	Medicaid; Medicaid (state only); Medicaid HMO	2	Medicaid			
4	Blue Cross		Private Insurance			
5	Commercial Insurance	3				
12	НМО					
8	Self-pay	4	Self-pay			
9	Charity	5	No charge			
3	Title V	6	Other			
7	Workers' Compensation					
6	Other government program					

10, 11	Other; Donor		
99, blank	Unknown; missing	-	Missing
Other Values		.A	Invalid

Missouri

Missouri					
(Valid beginning in 1995)					
	PAY1_X and PAY2_X	PA	Y1 and PAY2		
Value	Description	Value	Description		
01	Medicare	1	Medicare		
02	Medicaid	2	Medicaid		
04	Blue Cross/Blue Shield	3	Private		
07	Commercial/Private Insurance		Insurance		
06	Self-pay	4	Self-pay		
08	No charge (charity)	5	No charge		
03	Maternal and Child Health				
05	Worker's Compensation	6	Other		
09	Other government (CHAMPUS)		Otrici		
10	Other				
99, Blank	Unknown, Missing		Missing		
Any values source	s not documented by the data	.A	Invalid		
Separate information on HMO and PPO providers is not provided.					

North Carolina

North Carolina						
PAY1_X, PA	PAY1 and PAY2					
Value Description			Description			
M	Medicare	1	Medicare			
D	Medicaid	2	Medicaid			
В	Blue Cross					
Н	HMO - PPO		Private insurance			
I	Other Insurance Companies	3				
S	Self-Insured (administered plan)					

Р	Self-pay	4	Self-pay			
		5	No charge			
С	Champus					
E	Other Government					
N	Other Government	6	Other			
0	Other					
W	Workers' Compensation					
0, 1, 3, 8, 9, A, F, G, J, K, L, R, T, U, Y, Z, Blank		Missing				
Any values not documer source	.A	Invalid				
Separate information on HMO and PPO providers is not provided. HMOPPO1 and HMOPPO2 are not available.						

New Jersey

	New Jersey					
	(Va	lid beg	inning 1998)			
1	1_X and PAY2_X and PAY3_X	PAY1 and PAY2		II.	OPPO1 and IMOPPO2	
Value	Description	Value	Description	Value Description		
011	Title XVII (Medicare) Part A	1	Medicare		Cannot distinguish HMO/PPO from FFS	
015	Title XVII (Medicare) Part B	1	Medicare		Cannot distinguish HMO/PPO from FFS	
017	Title XVII (Medicare) Part B - Physician Charges	1	Medicare		Cannot distinguish HMO/PPO from FFS	
012	Title XIX (Medicaid)	2	Medicaid		Cannot distinguish HMO/PPO from FFS	
010	Blue Cross Plan	3	Private Insurance		Cannot distinguish	

				HMO/PPO from FFS
020	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
022	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
025	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
026	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
029	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
030	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
040	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
041	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
042	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
050	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS

060	Blue Cross Plan	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
070	Blue Cross Plan	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
080	Blue Cross Plan	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
090	Blue Cross Plan	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
100	Blue Cross Plan	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
101	Blue Cross Plan	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
110	Blue Cross Plan	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
121	Blue Cross Plan	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
130	Blue Cross Plan	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
140	Blue Cross Plan	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
141	Blue Cross Plan	3	Private Insurance	-	Cannot distinguish HMO/PPO

				from FFS
150	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
160	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
170	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
180	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
190	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
200	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
210	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
220	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
230	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
240	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
241	Blue Cross Plan	3	Private	. Cannot

			Insurance	distinguish HMO/PPO from FFS
250	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
260	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
265	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
270	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
280	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
281	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
290	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
300	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
301	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
303	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS

304	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
305	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
306	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
307	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
308	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
310	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
320	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
331	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
332	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
333	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
334	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO

				from FFS
335	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
337	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
338	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
340	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
350	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
351	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
360	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
361	Blue Cross plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
362	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
363	Blue Cross plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
364	Blue Cross plan	3	Private	. Cannot

			Insurance	distinguish HMO/PPO from FFS
370	Blue Cross plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
380	Blue Cross plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
390	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
392	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
400	Blue Cross plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
410	Blue Cross plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
415	Blue Cross plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
423	Blue Cross plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
424	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
430	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS

441	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
443	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
444	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
450	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
460	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
470	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
471	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
865	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
932	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
936	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
971	Blue Cross Plan	3	Private Insurance	Cannot distinguish HMO/PPO

				from FFS
105	Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
106	Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
107	Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
115	Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
120	Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
125	Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
131	Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
135	Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
142	Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
145	Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
151	Commercial	3	Private	. Cannot

			Insurance	distinguish HMO/PPO from FFS
155	Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
161	Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
165	Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
171	Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
175	Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
181	Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
185	Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
186	Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
187	Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
188	Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS

189	Commercial	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
191	Commercial	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
192	Commercial	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
193	Commercial	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
194	Commercial	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
195	Commercial	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
196	Commercial	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
197	Commercial	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
198	Commercial	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
199	Commercial	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
032	НМО	3	Private Insurance	1	HMO Only

033	НМО	3	Private Insurance	1	HMO Only
034	НМО	3	Private Insurance	1	HMO Only
035	НМО	3	Private Insurance	1	HMO Only
036	НМО	3	Private Insurance	1	HMO Only
037	НМО	3	Private Insurance	1	HMO Only
043	НМО	3	Private Insurance	1	HMO Only
044	НМО	3	Private Insurance	1	HMO Only
045	НМО	3	Private Insurance	1	HMO Only
046	НМО	3	Private Insurance	1	HMO Only
047	НМО	3	Private Insurance	1	HMO Only
048	НМО	3	Private Insurance	1	HMO Only
049	НМО	3	Private Insurance	1	HMO Only
051	НМО	3	Private Insurance	1	HMO Only
052	НМО	3	Private Insurance	1	HMO Only
053	НМО	3	Private Insurance	1	HMO Only
054	НМО	3	Private Insurance	1	HMO Only
055	НМО	3	Private Insurance	1	HMO Only
056	НМО	3	Private Insurance	1	HMO Only
057	НМО	3	Private Insurance	1	HMO Only
058	НМО	3	Private Insurance	1	HMO Only

			D: (
059	НМО	3	Private Insurance	1	HMO Only
061	НМО	3	Private Insurance	1	HMO Only
062	нмо	3	Private Insurance	1	HMO Only
063	НМО	3	Private Insurance	1	HMO Only
064	НМО	3	Private Insurance	1	HMO Only
065	НМО	3	Private Insurance	1	HMO Only
066	НМО	3	Private Insurance	1	HMO Only
067	НМО	3	Private Insurance	1	HMO Only
068	НМО	3	Private Insurance	1	HMO Only
069	НМО	3	Private Insurance	1	HMO Only
071	НМО	3	Private Insurance	1	HMO Only
072	НМО	3	Private Insurance	1	HMO Only
073	НМО	3	Private Insurance	1	HMO Only
074	НМО	3	Private Insurance	1	HMO Only
075	НМО	3	Private Insurance	1	HMO Only
077	НМО	3	Private Insurance	1	HMO Only
078	НМО	3	Private Insurance	1	HMO Only
081	НМО	3	Private Insurance	1	HMO Only
082	НМО	3	Private Insurance	1	HMO Only
083	НМО	3	Private Insurance	1	HMO Only

084	НМО	3	Private Insurance	1	HMO Only
085	НМО	3	Private Insurance	1	HMO Only
086	НМО	3	Private Insurance	1	HMO Only
087	НМО	3	Private Insurance	1	HMO Only
088	НМО	3	Private Insurance	1	HMO Only
089	НМО	3	Private Insurance	1	HMO Only
094	НМО	3	Private Insurance	1	HMO Only
097	НМО	3	Private Insurance	1	HMO Only
076	Miscellaneous: Premier Preferred Care of New Jersey	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
091	Miscellaneous: Union Insurance	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
093	Miscellaneous: MAGNET (Magna Care) (effective 1/95)	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
096	Miscellaneous: QualCare (effective 1/95)	3	Private Insurance	3	Mixture of HMO and PPO (or POS)
309	No Fault: Allstate	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
311	No Fault: New Jersey Manufacturers	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
315	No Fault: State Farm	3	Private Insurance	-	Cannot distinguish

					HMO/PPO from FFS
399	No Fault: Other	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
095	Miscellaneous: Indigent				
031	Patient: Direct	4	Self-pay	.N	Not applicable
039	Patient: Other Source of Patient Pay		Och pay		тот арриоаме
098	Miscellaneous: Hospital Responsibility	5	No charge	.N	Not applicable
014	Champus	6	Other	.N	Not applicable
016	Other Government				
092	Miscellaneous: Personal Health Program				
099	Miscellaneous: Other				
018	New Jersey State Health Benefits Plan				
019	Other Government				
013	Title V (Material and Child Health)				
205	Worker's Compensation				
211	Worker's Compensation				
215	Worker's Compensation				
221	Worker's Compensation				
225	Worker's Compensation				

231	Worker's Compensation				
299	Worker's Compensation				
000, Blank	Not Available, Missing	-	Missing	-	Missing
Any values not documented by the data source		.A	Invalid	.A	Invalid

New York

		Nev	w York				
	(Valid beginning 1998)						
PAY1	_X, PAY2_X, and PAY3_X	PAY	1 and PAY2		OPPO1 and IMOPPO2		
Value	Description	Value	Description	Value	Description		
03	Medicare	1	Medicare	0	Neither HMO/PPO		
16	Medicare HMO	1	Medicare		HMO Only		
04	Medicaid	2	Medicaid	0	Neither HMO or PPO		
17	Medicaid HMO	2	Medicaid	1	HMO Only		
06	Blue Cross	3	Private Insurance		Can not distinguish HMO/PPO from FFS		
08	Commercial Insurance Company	3	Private Insurance		Can not distinguish HMO/PPO from FFS		
11	HMO (Other)	3	Private Insurance	1	HMO Only		
13	No-fault	3	Private Insurance		Can not distinguish HMO/PPO from FFS		
15	Self-insured, Self- administered plans	3	Private Insurance		Can not distinguish HMO/PPO from FFS		

01	Self-pay	4	Self-pay	.N	Not applicable
09	No charge	5	No charge	.N	Not applicable
02	Worker's Compensation				
07	Other Government				
10	Other				
12	CHAMPUS/VA				
14	Corrections (federal, state, or local) (1993-1995 only)	6	Other	.N	Not applicable
18	Corrections Federal (beginning in 1996)				
19	Corrections State (beginning in 1996)				
20	Corrections Local (beginning in 1996)				
Blank	Missing		Missing		Missing
	alues not nented by the data	.A	Invalid	.A	Invalid

	New York (Valid from 1993-1997)					
PAY1_X, PAY2_X, and PAY3_X PAY1 and PAY2						
Value	Description	Value	Description			
03	Medicare	1	Medicare			
16	Medicare HMO	'	Medicale			
04	Medicaid	2	Medicaid			
17	Medicaid HMO		IVIEUICAIU			
06	Blue Cross	3	Private Insurance			
80	Commercial Insurance Company					
11	HMO (Other)					

13	No-fault		
15	Self-insured, Self-administered plans		
01	Self-pay	4	Self-pay
09	No charge	5	No charge
02	Worker's Compensation		
07	Other Government		
10	Other		Other
12	CHAMPUS/VA		
14	Corrections (federal, state, or local) (1993-1995 only)	6	
18	Corrections Federal (beginning in 1996)		
19	Corrections State (beginning in 1996)		
20	Corrections Local (beginning in 1996)		
Blank	Missing		Missing
Any values not documented by the data source		.A	Invalid

New York						
	(Valid for 1992)					
	PAY1_X, PAY2_X	PAY	1 and PAY2			
Value	Description	Value	Description			
03	Medicare	1	Medicare			
04	Medicaid	2	Medicaid			
06	Blue Cross					
08, 13, 15	Commercial Insurance; no-fault; self-insured, self-administered plan	113	Private Insurance			
11	Other HMO					
01	Self-pay	4	Self-pay			
09	No charge	5	No charge			
02	Workers' Compensation					
12	CHAMPUS/VA					
07, 14	Other government; Corrections (state, county, or city)	6	Other			
10	Other					

Blank	Primary:	-	Missing
Blank, 00	Secondary:	-	Missing
Other Values		.A	Invalid

New York							
(Valid from 1988-1991)							
	PAY1_X, PAY2_X PAY1 and PAY2						
Value	Description	Value	Description				
03	Medicare	1	Medicare				
04	Medicaid	2	Medicaid				
06	Blue Cross		D.: -1-				
08	Commercial Insurance	3	Private Insurance				
11	Other HMO		in our arroo				
01	Self-pay	4	Self-pay				
09	No charge	5	No charge				
02	Workers' Compensation		Other				
07	Other government; Corrections (state, county, or city)	6					
10	Other						
Blank	Primary:		Missing				
Blank, 00	Secondary:		Missing				
Other Values		.A	Invalid				

Oregon

Oregon (Valid beginning in 1998)							
PAY1_X, PAY2_X, and PAY1 and PAY2 HMOPPO1 and HMOPPO2							
Value	Description	Value	Description	Value	Description		
М	Medicare	1	Medicare	-	Can not distinguish HMO/PPO		
D	Medicaid	2	Medicaid		Can not distinguish HMO/PPO		

X	HMO/Oregon Health Plan (Medicaid)	2	Medicaid	1	HMO Only	
В	Blue Cross/Blue Shield	3	Private Insurance		Can not distinguish HMO/PPO	
I	Commercial Insurance	3	Private Insurance		Can not distinguish HMO/PPO	
S	Self-Insured	3	Private Insurance		Can not distinguish HMO/PPO	
Н	HMO/Managed Care	3	Private Insurance	1	HMO Only	
Р	Self Pay	4	Self-pay	.N	Not applicable	
Z	Medically Indigent, Free, Research	5	No charge	.N	Not applicable	
W	Workers Compensation					
С	CHAMPUS					
E	County or State					
L	Managed Assistance	6	Other	.N	Not applicable	
N	Division of Health Services					
0	Other					
Blank	Missing		Missing	-	Missing	
	alues not nented by the data	.A	Invalid	.A	Invalid	

Oregon						
(Valid from 1995-1997)						
PAY1_X, PAY2_X, and PAY3_X PAY1 and PAY2						
Value	Description	Value	Description			
М	Medicare	1	Medicare			
D, X	Medicaid: HMO/Oregon Health Plan	2	Medicaid			

	(Medicaid)			
В	Blue Cross/Blue Shield			
I, Y, S	Commercial Insurance; PPO; Self-insured		Private Insurance	
H, K	HMO/Managed Care; Kaiser Permanente		modranoc	
Р	Self Pay	4	Self-pay	
Z	Medically Indigent/Free/Research	5	No charge	
Т	Title V			
W	Workers' Compensation			
С	CHAMPUS			
E, L, N	County of State; Managed Assistance; Division of Health Services	6	Other	
0	Other			
Blank	Missing		Missing	
Other Values		.A	Invalid	

Oregon						
(Valid from 1993-1994)						
	PAY1_X	PAY1				
Value Description			Description			
1	Medicare	1	Medicare			
2	Medicaid	2	Medicaid			
6	Blue Cross	3	Private Insurance			
7	Other commercial insurance		i iivate iiisaranee			
8	Self-pay	4	Self-pay			
		5	No charge			
3	Title V					
5	Workers' Compensation	6	Other			
4	Other government		Other			
9	Other					
0, blank	Missing		Missing			
Other Values		.A	Invalid			

Pennsylvania

	F	Pennsy	·Ivania					
	(Valid beginning in 1998)							
PAY	1_X, PAY2_X and PAY3_X	PAY'	1 and PAY2	HMOPPO1 and HMOPPO2				
Value	Description	Value	Description	Value	Description			
10	Medicare - Other (Source documentation states that this code was discontinued in 1999, but because it was still used, HCUP allowed the value in the 2000 data)	1	Medicare	0	Fee for Service (FFS)			
12	Medicare - PPO (Beginning in 7/99)	1	Medicare	2	PPO only			
13	Medicare - POS (Beginning in 1/00)	1	Medicare	3	Mixture of HMO and PPO (or POS)			
14	Medicare Part A - Fee for Service (Beginning in 7/99)	1	Medicare	0	Fee for Service (FFS)			
15	Medicare - HMO/PPO (Discontinued 12/99) Medicare - HMO (Valid 7/99 - 12/99)	1	Medicare	3	Mixture of HMO and PPO (or POS)			
15	Medicare - HMO (Beginning 1/00)	1	Medicare	1	HMO only			
20	Medicaid - Other (Source documentation states that this code was discontinued in 1999, but because it was still used, HCUP allowed the value in the 2000 data)	2	Medicaid	0	Fee for Service			

22	Medicaid - PPO (Beginning in 7/99)	2	Medicaid	2	PPO only
24	Medicaid - Fee for Service (Beginning in 7/99)	2	Medicaid	0	Fee for Service (FFS)
25	Medicaid - HMO/PPO (Discontinued 12/99) Medicaid - HMO (Valid 7/99 - 12/99)	2	Medicaid	3	Mixture of HMO and PPO (or POS)
25	Medicaid - HMO (Beginning in 1/00)	2	Medicaid	1	HMO only
30	Blue Cross - Other (Source documentation states that this code was discontinued in 1999, but because it was still used, HCUP allowed the value in the 2000 data)	3	Private Insurance	0	Fee for Service (FFS)
32	Blue Cross - PPO (Beginning in 7/99)	3	Private Insurance	2	PPO only
33	Blue Cross - POS (Beginning in 7/99)	3	Private Insurance	3	Mixture of HMO and PPO (or POS)
34	Blue Cross - Fee for Service (Beginning in 7/99)	3	Private Insurance	0	Fee for Service (FFS)
35	Blue Cross - HMO/PPO (Discontinued 12/99) Blue Cross - HMO (Valid 7/99 - 12/99)	3	Private Insurance	3	Mixture of HMO and PPO (or POS)
35	Blue Cross - HMO (Beginning in 1/00)	3	Private Insurance	1	HMO Only
38	Blue Cross - United Health & Welfare Fund (Source	3	Private Insurance	0	Fee for Service

	documentation states that this code was discontinued in 1998, but because it was still used, HCUP allowed the value in the 1999- 2000 data)				
39	Blue Cross - Association (Source documentation states that this code was discontinued in 1999, but because it was still used, HCUP allowed the value in the 2000 data)	3	Private Insurance	0	Fee for Service
40	Commercial - Other (Source documentation states that this code was discontinued in 1999, but because it was still used, HCUP allowed the value in the 2000 data)	3	Private Insurance	0	Fee for Service
42	Commercial - PPO (Beginning in 7/99)	3	Private Insurance	2	PPO only
43	Commercial - POS (Beginning in 7/99)	3	Private Insurance	3	Mixture of HMO and PPO (or POS)
44	Commercial - Fee for Service (Beginning in 7/99)	3	Private Insurance	0	Fee for Service (FFS)
45	Commercial - HMO/PPO (Discontinued 12/99) Commercial - HMO (Valid 7/99 - 12/99)	3	Private Insurance	3	Mixture of HMO and PPO (or POS)
45	Commercial - HMO	3	Private	1	HMO Only

	(Beginning in 1/00)		Insurance		
46	Commercial - Union Health & Welfare Fund (Source documentation states that this code was discontinued in 1999, but because it was still used, HCUP allowed the value in the 2000 data)	3	Private Insurance	0	Fee for Service
48	Commercial - Automobile	3	Private Insurance	0	Fee for Service (FFS)
49	Commercial - Association (Discontinued 12/99)	3	Private Insurance	0	Fee for Service (FFS)
49	Commercial - Unknown (Beginning in 1/00)	3	Private Insurance	-	Can not distinguish HMO/PPO from FFS
50	Employer Funded Plans - Other (Source documentation states that this code was discontinued in 1999, but because it was still used, HCUP allowed the value in the 2000 data)	3	Private Insurance	0	Fee for Service
55	Employer Funded Plans - HMO/PPO (Source documentation states that this code was discontinued in 1999, but because it was still used, HCUP allowed the value in the 2000	3	Private Insurance	3	Mixture of HMO and PPO (or POS)

	data)				
56	Employer Funded Plans - Union Health & Welfare Fund (Source documentation states that this code was discontinued in 1999, but because it was still used, HCUP allowed the value in the 2000 data)	3	Private Insurance	0	Fee for Service
59	Employer Funded Plans - Association Group (Source documentation states that this code was discontinued in 1999, but because it was still used, HCUP allowed the value in the 2000 data)	3	Private Insurance	0	Fee for Service
00	Patient Direct Bill (Discontinued 12/99) Uninsured - Self Pay or Charity/Indigent Care (Beginning in 7/99)	4	Self-pay	.N	Not applicable
		5	No charge	.N	Not applicable
47	Commercial - Workers' Compensation	6	Other	.N	Not applicable

57	Employer Funded Plans - Workers' Compensation (Source documentation states that this code was discontinued in 1999, but because it was still used, HCUP allowed the value in the 2000 data)
80	Other government - Other/Unknown (Source documentation states that this code was discontinued in 1999, but because it was still used, HCUP allowed the value in the 2000 data)
82	Government - PPO (Beginning in 7/99)
84	Government - Fee for Service (Beginning in 7/99)
85	Government - HMO (Beginning in 7/99)
87	Other Government - State Workers Insurance Fund (Source documentation states that this code was discontinued in 1999, but because it was still used, HCUP allowed the value in the 2000 data)

88	Other Government - Catastrophic Loss Fund (Source documentation states that this code was discontinued in 1999, but because it was still used, HCUP allowed the value in the 2000 data)				
89	Government - Unknown/Not Listed (Beginning in 7/99)				
90, 99, Blank	Unknown, Not Listed, Missing	-	Missing	-	Missing
11 -	llues not ented by the data	.A	Invalid	.A	Invalid

	Pennsylvania				
(Valid from 1994-1997)					
F	PAY1_X, PAY2_X and PAY3_X	PAY	′1 and PAY2		
Value	Description	Value	Description		
10	Medicare - Other	1	Medicare		
15	Medicare - HMO/PPO	' '	Medicare		
20	Medicaid - Other	2	Medicaid		
25	Medicaid - HMO/PPO				
30	Blue Cross - Other	3	Private		
35	Blue Cross - HMO/PPO		Insurance		
36	BC - union health & welfare fund (1994-1997 only)				
38	Blue Cross - United Health & Welfare Fund				
39	Blue Cross - Association				
40	Commercial - Other				
45	Commercial - HMO/PPO				

		. 1	
46	Commercial - Union Health & Welfare Fund		
48	Commercial - Automobile		
49	Commercial - Association		
50	Employer Funded Plans - Other		
55	Employer Funded Plans - HMO/PPO		
56	Employer Funded Plans - Union Health & Welfare Fund		
59	Employer Funded Plans - Association Group		
05	Patient direct bill - HMO/PPO (1994-1997 only)		
00	Patient Direct Bill; Uninsured - Self Pay or Charity/Indigent Care	4	Self-pay
		5	No charge
47	Commercial - Workers' Compensation		
57	Employer Funded Plans - Workers' Compensation		
80	Other government - Other/Unknown	6	Other
87	Other Government - State Workers Insurance Fund		
88	Other Government - Catastrophic Loss Fund		
90, 99, Blank	Unknown, Not Listed, Missing		Missing
Any value source	es not documented by the data	.A	Invalid

Pennsylvania				
(Valid from 1990-1993)				
PAY1_X, PAY2_X PAY1 and PAY2				
Value	Description	Value	Description	
02	Medicare	1	Medicare	
01	Medicaid	2	Medicaid	
03	Blue on Blue	3		

04,10, 11, 12	Commercial; Employers; Associations; Auto Insurance		Private Insurance
05	HMO/PPO		
00 (not "0")	Self-pay	4	Self-pay
		5	No charge
07	Workers' Compensation		
06, 08, 09	Health and Welfare; CAT fund; Other government programs	6	Other
99, blank	Unknown		Missing
(includes "0")	Other values	.A	Invalid

South Carolina

	South Carolina						
	(Valid beginning in 2000)						
PAY1	_X, PAY2_X, and PAY3_X	PAY	1 and PAY2	HMOPPO1 and HMOPPO2			
Value	Description	Value	Description	Value	Description		
1	Medicare	1	Medicare		Cannot distinguish HMO/PPO from FFS		
2	Medicaid	2	Medicaid	-	Cannot distinguish HMO/PPO from FFS		
4	Commercial, PPO	3	Private insurance		Cannot distinguish HMO/PPO from FFS		
5	НМО	3	Private insurance	1	HMO Only		
6	Self-Pay	4	Self-pay	.N	Not applicable		
		5	No charge	.N	Not applicable		
9	Workers' Compensation	6	Other	.N	Not applicable		
10	CHAMPUS, CHAMPVA						

12	Other				
Blank	Missing		Missing	-	Missing
	lues not ented by the data	.A	Invalid	.A	Invalid

	South Carolina						
	(Valid from 1998-1999)						
PAY'	I_X and PAY2_X	PAY	1 and PAY2	HMOPPO1 and HMOPPO2			
Value	Description	Value	Description	Value	Description		
6	Medicare	1	Medicare		Cannot distinguish HMO/PPO from FFS		
7	Medicaid	2	Medicaid		Cannot distinguish HMO/PPO from FFS		
12	Commercial, unspecified	3	Private insurance		Cannot distinguish HMO/PPO from FFS		
13	Commercial, unspecified	3	Private insurance		Cannot distinguish HMO/PPO from FFS		
14	Commercial, unspecified	3	Private insurance		Cannot distinguish HMO/PPO from FFS		
16	НМО	3	Private Insurance	1	HMO only		
1	Self-pay	4	Self-pay	.N	Not applicable		
		5	No charge	.N	Not applicable		
2	State or county indigent program, unspecified	6	Other	.N	Not applicable		

3	State or county indigent program, unspecified				
4	State or county indigent program, unspecified				
5	Champus				
8	State or county indigent program, unspecified				
9	Worker's Compensation				
10	State or county indigent program, unspecified				
11	State or county indigent program, unspecified				
15, Blank	Not Stated, Missing	-	Missing	-	Missing
•	llues not ented by the data	.A	Invalid	.A	Invalid

	South Carolina				
	(Valid from 1993-1997)				
	PAY1_X and PAY2_X PAY1 and PAY2				
Value	Description	Value	Description		
02	Medicare	1	Medicare		
03	Medicaid	2	Medicaid		
04, 16	Blue Cross/Commercial; HMO	3	Private insurance		
01	Self-pay	4	Self-pay		
		5	No charge		
05, 06, 07	Workers' Comp; Indigent/Charity; Other government	6	Other		
08, Blank	Missing		Missing		

Other	.A	Invalid
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Tennessee

	-	Tennes	see		
	(Valid b	eginni	ng in 1998)		
PA	Y1_X, PAY2_X, and PAY3_X	PAY	I and PAY2	HMOPPO1 and HMOPPO2	
Value	Description	Value	Description	Value	Description
М	Medicare	1	Medicare	0	Fee for Service (FFS)
1	Medicare Managed Care (Discontinued in 2000)	1	Medicare	1	HMO Only
K	Medicare HMO/PSO (Beginning in 2000)	1	Medicare	3	Mixture of HMO and PPO (or POS)
D	Medicaid	2	Medicaid	0	Fee for Service (FFS)
Т	TennCare Plan: Unspecified	2	Medicaid	1	HMO Only
2	TennCare Plan: Access-Med Plus				
3	TennCare Plan: Blue Cross				
4	TennCare Plan: Advantage Care/Phoenix				
5	TennCare Plan: Omni Care				
6	TennCare Plan: Health Net				
7	TennCare Plan: Unspecified				
8	TennCare Plan: John Deere/Heritage				

9	TennCare Plan: Preferred Health Partnership				
A	TennCare Plan: Prudential Community Care				
F	TennCare Plan: TLC Family Care Healthplan				
G	TennCare Plan: Tennsource				
J	TennCare Plan: Blue Care				
U	TennCare Behavioral: Tennessee Behavioral Health, Inc.				
E	TennCare Behavioral: BHO - plan unspecified (Beginning in 2000)				
X	TennCare Behavioral: Premier Behavioral Systems of TN				
В	Blue Cross/Blue Shield	3	Private Insurance	0	Fee for Service (FFS)
Н	Blue Cross - Managed Care - HMO/PPO/Other Managed Care (Beginning in 2000)	3	Private Insurance	3	Mixture of HMO and PPO (or POS)
I	Commercial Insurance (Indemnity Carrier)	3	Private Insurance	0	Fee for Service (FFS)
L	Commercial/Managed Care - HMO/PPO/Other Managed Care (Beginning in 2000)	3	Private Insurance	3	Mixture of HMO and PPO (or POS)
s	Self Insured	3	Private Insurance	-	Cannot distinguish

					HMO/PPO from FFS
Н	HMO/Managed Care (Redefined in 2000)	3	Private Insurance	3	Mixture of HMO and PPO (or POS)
Р	Self-pay	4	Self-pay	.N	Not applicable
Z	Medically Indigent/Free	5	No charge	.N	Not applicable
W	Workers/State Compensation				
С	Federal, Champus (Military)			.N	Not applicable
E	County or state employee (Redefined in 2000)	6	Other		
L	Managed Assistance (Redefined in 2000)				
N	Division of Health Services (Voc. Rehab.)				
О	Other, Unknown		Missing		Missing
Blank Missing			iviiooirig		iviiooniig
	alues not documented data source	.A	Invalid	.A	Invalid

Texas

	Texas				
PAY1_X, PAY2_X		PAY1 and PAY2		HMOPPO1 and HMOPPO2	
Value	Description	Value	Description	Value	Description
"C", "C\$", where \$ is not equal to V	Medicare	1	Medicare		Can not distinguish HMO/PPO from FFS
"CV"	Medicare Managed Care	1	Medicare	1	HMO Only

"D", "D\$", where \$ is not equal to X	Medicaid	2	Medicaid		Can not distinguish HMO/PPO from FFS
"DX"	Medicaid Managed Care	2	Medicaid	3	Mixture of HMO and PPO (or POS)
"F", "F\$", where \$ is not equal to Y or U	Commercial	3	Private insurance		Can not distinguish HMO/PPO from FFS
"FY"	Commercial HMO	3	Private insurance	1	HMO Only
"FU"	Commercial PPO	3	Private insurance	2	PPO Only
"G", "G\$", where \$ is not equal to Y or U	Blue Cross	3	Private insurance		Can not distinguish HMO/PPO from FFS
"GY"	Blue Cross - HMO	3	Private insurance	1	HMO Only
"GU"	Blue Cross - PPO	3	Private insurance	2	PPP Only
"A", "A\$"	Self-pay	4	Self-pay	.N	Not applicable
"IZ"	Charity care	5	No charge	.N	Not applicable
"B", "Ba"	Worker's Compensation	6	Other	.N	Not applicable
"E", "E\$"	Other federal program, - including VA				
"H", "H\$"	CHAMPUS				

"I", "I\$", where \$ is not equal to Z	Other				
Blank	Missing		Missing	-	Missing
is missing source of any value	", "\$" (value that g the standard r payment), or es not ted by the data	.A	Invalid	.A	Invalid

PAY1_X/PAY2_X are created from two data elements provided by the data source:

- the first digit of PAY1_X/PAY2_X is the reported standard source of payment and
- the second digit is the reported non-standard source of payment

Documented values for the standard source of payment (the first digit of PAY1_X/PAY2_X) include:

A =	Self-pay
B =	Workers' Compensation
C =	Medicare
D =	Medicaid
E =	Other federal programs
F =	Commercial
G =	Blue Cross
H =	CHAMPUS
I =	Other

Documented values for the non-standard source of payment (the second digit of PAY1_X/PAY2_X) include:

T =	State or local government programs
U =	Commercial PPO
V =	Medicare managed care

X =	Medicaid managed care
Y =	Commercial HMO
Z =	Charity Care

As the table above indicates, the coding PAY1/PAY2 from PAY1_X/PAY2_X is primarily based on the standard source of payment code (first digit of PAY1_X/PAY2_X) because it is from the UB-92 and may be required for payment.

Utah

	Utah							
	(Valid beginning in 1998)							
PAY1_X, PAY2_X and PAY3_X		PAY	1 and PAY2	HMOPPO1 and HMOPPO2				
Value	Description	Value	Description	Value	Description			
01	Medicare	1	Medicare		Cannot distinguish HMO/PPO from FFS			
02	Medicaid	2	Medicaid		Cannot distinguish HMO/PPO from FFS			
04	Blue Cross/Blue Shield	3	Private Insurance	0	Fee for service (FFS)			
05	Other commercial	3	Private Insurance	0	Fee for service (FFS)			
06	Managed care (HMO and PPO)	3	Private Insurance	3	Mixture of HMO and PPO (or POS)			
07	Self pay	4	Self-pay	.N	Not applicable			
		5	No charge	.N	Not applicable			
03	Other government	6	Other	.N	Not applicable			
08	Industrial and Worker's compensation							
09	Unclassified							
12	Other							

13	Children's Health Insurance Plan (CHIP)				
10, 99, Blank	Unknown, Not reported, Missing		Missing	-	Missing
	lues not ented by the data	.A	Invalid	.A	Invalid

Utah						
(Valid for 1997)						
PAY1	_X, PAY2_X and PAY3_X	PAY1 and PAY2				
Value	Description	Value	Description			
01	Medicare	1	Medicare			
02	Medicaid	2	Medicaid			
04	Blue Cross/Blue Shield		Dation			
05	Other commercial		Private Insurance			
06	Managed care (HMO and PPO)		in our direct			
07	Self pay	4	Self-pay			
		5	No charge			
03	Other government					
08	Industrial and Worker's		Other			
09	Unclassified					
12 Other						
10, 99, Blank	Unknown, Not reported, Missing	-	Missing			
Any values source	not documented by the data	.A	Invalid			

Virginia

Virginia							
PAY1_X PAY1 HMOPPO1							
Value	Description	Value	Description	Value	Description		
1	Medicare	1	Medicare		Cannot		

				distinguish HMO/PPO from FFS
2	Medicaid	2	Medicaid	Cannot distinguish HMO/PPO from FFS
31	Medicaid - Out of State	2	Medicaid	Cannot distinguish HMO/PPO from FFS
3	Trigon/BC/BS	3	Private insurance	Cannot distinguish HMO/PPO from FFS
6	Aetna/US Healthcare	3	Private insurance	Cannot distinguish HMO/PPO from FFS
7	United Healthcare	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
8	Cigna	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
9	Other Commercial	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
13	Prudential	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
14	State Farm	3	Private Insurance	Cannot distinguish HMO/PPO from FFS
24	All State	3	Private Insurance	Cannot distinguish HMO/PPO from FFS

28	John Hancock	3	Private Insurance	-	Cannot distinguish HMO/PPO from FFS
29	HMO/PPO - Unspecified	3	Private Insurance	3	Mixture of HMO and PPO (or POS)
32	BC/BS Out of State	3	Private Insurance	-	Cannot distinguish HMO/PPO from FFS
33	GWU Health Plan	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
34	Kaiser Permanente	3	Private Insurance	1	HMO Only
35	MAMSI	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
36	NYLCare	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
37	Qualchoice	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
38	Sentara	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
39	Southern Health	3	Private Insurance		Cannot distinguish HMO/PPO from FFS
5	Self Pay	4	Self-pay	.N	Not applicable
		5	No charge	.N	Not applicable
4	Tricare/Champus	6	Other	.N	Not applicable
10	Indigent/Charity				

11	Worker's Comp				
16	Local Government				
17	State Government				
18	Other Government				
19	Government Assistance				
20	Jail/Detention				
21	Black Lung				
25	Research/Donor				
26	Foreign				
27	Hospice - Unspecified				
99, Blank	Unknown, Missing	-	Missing	-	Missing
	lues not ented by the data	.A	Invalid	.A	Invalid

Washington

	Washington						
	(Valid	begin	ning in 1998)				
PAY	1_X and PAY2_X	PAY1 and PAY2			OPPO1 and MOPPO2		
Value	Description	Value	Description	Value	Description		
001	Medicare	1	Medicare		Cannot distinguish HMO/PPO from FFS		
002	Medicaid (DSHS)	2	Medicaid		Cannot distinguish HMO/PPO from FFS		
004	Health Maintenance Organization (HMO) (e.g., Group Health, Kaiser Foundation, Good Health)	3	Private Insurance	1	HMO Only		

	246-453-010 Workers Compensation (includes state fund, self insured				applicable
800	employers, and Labor and Industries crime victims claims)	6	Other	.N	Not applicable
625	Other Sponsored Patients (e.g., CHAMPUS, Indian Health)				
	Missing		Missing		Missing
Blank	IVIISSING	.	IVIIOOIIIQ	-	IMIOSITIC

Washington						
(Valid from 1988-1997)						
	PAY1_X and PAY2_X PAY1 and PAY2					
Value	Description	Value	Description			
001	Medicare	1	Medicare			
002	Medicaid (DSHS)	2	Medicaid			

004	Health Maintenance Organization (HMO) (e.g., Group Health, Kaiser Foundation, Good Health)			
006	Commercial insurance (e.g., AETNA, Mutual of Omaha, Safeco)	3	Private Insurance	
610	Health Care Service Contractors (e.g., Blue Cross, county medical bureaus, Washington Physicians Service) (Beginning in 1994)			
009	Self-pay		Self-pay	
630	Charity Care as defined in WAC 246- 453-010		No charge	
800	Workers Compensation (includes state fund, self insured employers, and Labor and Industries crime victims claims)		Other	
610	Health Care Service Contractors (e.g., Blue Cross, county medical bureaus, Washington Physicians Service) (Prior to 1994)			
625	Other Sponsored Patients (e.g., CHAMPUS, Indian Health)			
Blank	Missing		Missing	
Any va	Any values not documented by the data source		Invalid	

Wisconsin

	Wisconsin						
(Valid beginning in 1998)							
PAY1_X and PAY2_X PAY1 and PAY2 HMOPPO1 and HMOPPO2							
Value	Description	Value	Description	Value	Description		
MED01	Medicare - Fee for service, non- HMO Medicare, or non-HMO Medicaid	1	Medicare	0	Neither HMO nor PPO		
MED02	Medicare - Alternative health care insurance plans (HMO, PPO, PPA, etc.)	1	Medicare	3	Mixture of HMO and PPO (or POS)		
MED09	Medicare -	1	Medicare		Can not		

	Unable to determine insurance type				distinguish HMO/PPO from FFS
T1901	Wisconsin Medicaid - Fee for service	2	Medicaid	0	Neither HMO nor PPO
T1902	Wisconsin Medicaid - Alternative health care insurance plans	2	Medicaid	3	Mixture of HMO and PPO (or POS)
T1909	Wisconsin Medicaid - type unknown	2	Medicaid	3	Mixture of HMO and PPO (or POS)
OTH51	Non-Wisconsin Medicaid	2	Medicaid		Cannot distinguish HMO/PPO from FFS
WPS01	Wisconsin Physicians Service - Fee for service	3	Private Insurance	0	Neither HMO nor PPO
WPS02	Wisconsin Physicians Service - Alternative health care insurance plans	3	Private Insurance	3	Mixture of HMO and PPO (or POS)
WPS09	Wisconsin Physicians Service - type unknown	3	Private Insurance		Can not distinguish HMO/PPO from FFS
OTH11	Commercial or private insurance - Fee for service	3	Private Insurance	0	Neither HMO nor PPO
OTH12	Commercial or private insurance - Alternative health care insurance plans	3	Private Insurance	3	Mixture of HMO and PPO (or POS)
OTH19	Commercial or private insurance	3	Private Insurance	-	Can not distinguish

	- type unknown				HMO/PPO from FFS
OTH21	Employer self- funded - Fee for service	3	Private Insurance	0	Neither HMO nor PPO
OTH22	Employer self- funded - Alternative health care insurance plans	3	Private Insurance	3	Mixture of HMO and PPO (or POS)
OTH29	Employer self- funded - type unknown	3	Private Insurance		Can not distinguish HMO/PPO from FFS
OTH31	Other organization self-funded - Fee for service	3	Private Insurance	0	Neither HMO nor PPO
OTH32	Other organization self-funded - Alternative health care insurance plans	3	Private Insurance	3	Mixture of HMO and PPO (or POS)
ОТН39	Other organization self- funded - type unknown	3	Private Insurance		Can not distinguish HMO/PPO from FFS
nnn01, where nnn is a 3-digit code	Blue Cross - Fee for service	3	Private Insurance	0	Neither HMO nor PPO
nnn02, where nnn is a 3-digit code	Blue Cross - Alternative health care insurance plans	3	Private Insurance	3	Mixture of HMO and PPO (or POS)
nnn09, where nnn is a 3-digit code	Blue Cross - type unknown	3	Private Insurance	-	Can not distinguish HMO/PPO from FFS

OTH61	Self-pay	4	Self-pay	.N	Not applicable
		5	No charge	.N	Not applicable
CHA01	CHAMPUS, CHAMPVA (effective beginning in 1994)				
CHA02	CHAMPUS, CHAMPVA (effective beginning in 1994)				
CHA03	CHAMPUS, CHAMPVA (effective beginning in 1994)				
OTH41	Worker's Compensation				Not applicable
OTH52	51.42 / 51.437 / 46.23 Board	6	Other	.N	
OTH53	General Relief				
OTH54	WisconsinCare				
ОТН55	CHAMPUS Supplement				
OTH56	HIRSP				
ОТН59	Other government				
OTH98	Other				
bbb01, where b is a blank	Other - Fee for service (beginning in 1998)				
OTH01	Other - Fee for service (effective from 1989-1997)				
OTH99	Unknown		Missing		Missing

bbb00, where b is a blank	Unknown				
Blank	Missing				
Any values not documented by the data source		.A	Invalid	.A	Invalid

	Wisconsin (Valid from 1989-1997)				
	PAY1_X and PAY2_X	PAY	1 and PAY2		
Value	Description	Value	Description		
MED01	Medicare - Fee for service, non-HMO Medicare, or non- HMO Medicaid				
MED02	Medicare - Alternative health care insurance plans (HMO, PPO, PPA, etc.)	Medicare			
MED09	Medicare - Unable to determine insurance type				
T1901	Wisconsin Medicaid - Fee for service				
T1902	Wisconsin Medicaid - Alternative health care insurance plans	2	Medicaid		
T1909	Wisconsin Medicaid - type unknown				
OTH51	Non-Wisconsin Medicaid				
WPS01	Wisconsin Physicians Service - Fee for service	3	Private Insurance		
WPS02	Wisconsin Physicians Service - Alternative health care insurance plans		Private Insurance		
WPS09	Wisconsin Physicians Service - type unknown	3	Private Insurance		
OTH11	Commercial or private insurance - Fee for service	3	Private Insurance		
OTH12	Commercial or private	3	Private		

	insurance - Alternative health care insurance plans		Insurance
OTH19	Commercial or private insurance - type unknown	3	Private Insurance
OTH21	Employer self-funded - Fee for service	3	Private Insurance
OTH22	Employer self-funded - Alternative health care insurance plans	3	Private Insurance
OTH29	Employer self-funded - type unknown	3	Private Insurance
OTH31	Other organization self-funded - Fee for service	3	Private Insurance
OTH32	Other organization self-funded - Alternative health care insurance plans	3	Private Insurance
ОТН39	Other organization self-funded - type unknown	3	Private Insurance
nnn01, where nnn is a 3-digit code	Blue Cross - Fee for service	3	Private Insurance
nnn02, where nnn is a 3-digit code	Blue Cross - Alternative health care insurance plans	3	Private Insurance
nnn09, where nnn is a 3-digit code	Blue Cross - type unknown	3	Private Insurance
OTH61	Self-pay	4	Self-pay
		5	No charge
CHA01	CHAMPUS, CHAMPVA (effective beginning in 1994)	6	Other
CHA02	CHAMPUS, CHAMPVA (effective beginning in 1994)		
CHA03	CHAMPUS, CHAMPVA (effective beginning in 1994)		
OTH41	Worker's Compensation		
OTH52	51.42 / 51.437 / 46.23 Board		
OTH53	General Relief		
OTH54	WisconsinCare		
OTH55	CHAMPUS Supplement		

OTH56	HIRSP		
OTH59	Other government		
OTH98	Other		
OTH01	Other - Fee for service (effective from 1989-1997)		
OTH99	Unknown		
bbb00, where b is a blank	Unknown	-	Missing
Blank			
Any values not	Any values not documented by the data source .A Invalid		

West Virginia

West Virginia						
(Valid beginning in 1998)						
P	AY1_X and PAY2_X	F	AY1 and PAY2			
Value	Description	Value	Description			
1	Medicare	1	Medicare			
2	Medicaid	2	Medicaid			
Public Employee Insurance Agency (PEIA)						
8	Commercial	3	Private Insurance			
9	Nonprofit					
10	Employer/Union					
11	Self-pay	4	Self-pay			
12	Charity	5	No charge			
4	Workers Compensation					
5	Other Federal Government					
6	Other West Virginia Government	6	Other			
7	Other States Government					
14	Not elsewhere classified					
13	Unknown		Missing			
Blank	Blank Missing		Missing			
Any values not documented by the data source		.A	Invalid			
For Med	icare. Medicaid, and private	e insura	ance pavers			

(PAY1/PAY2 = 1, 2, or 3), information on fee for service and HMO payment is available in the HCUP variables HMOPPO1 and HMOPPO2. This information can be extracted from the detailed payment information available in the HCUP variables PAYER1_X and PAYER2_X. The first 2 digits of PAYER1_X/PAYER2_X identify the payment program; the third digit identifies the modality (e.g., fee for service, HMO, point of service, etc.); and the fourth digit specifies the HMO plan. See documentation under PAYER1_X and PAYER2_X for additional information.

PAYE	R1_X and PAYER2_X	НМОР	PO1 and HMOPPO2
3rd digit = "1"	Fee for Service/Indemnity	0	Fee for Service
3rd digit = "2"	DRG Prospective Payment System	0	Fee for Service
3rd digit = "3"	t = Point of Service		Mixture of HMO and PPO (or POS)
3rd digit = "3"	Point of Service	3	Mixture of HMO and PPO (or POS)
3rd digit = "4"	НМО	1	HMO Only
3rd digit = "5"	Other Managed Care (including PPO)	3	Mixture of HMO and PPO (or POS)
3rd digit not equal 1-5	Unknown or not elsewhere classified	-	Can not distinguish HMO/PPO from FFS

PAY1_X - Expected primary payer, as received from data source

General Notes

PAY1_X retains the expected primary payer as provided by the data source. The original values have not been recoded into uniform HCUP values and are source-specific.

Two HCUP data elements contain uniformly coded information about the expected primary payer:

- PAY1 has general categories for Medicare, Medicaid, private insurance, and other payers.
- PAY1_N has more detailed categories for private insurance and other payers. PAY1_N is only available in the 1988-1997 HCUP databases. This data element is discontinued beginning in the 1998 data because of the difficulty of coding the information uniformly across States.

Information on the definition of the source values contained in PAY1_X and how the source values are recoded into the HCUP uniform variable PAY1 is available under the note for expected primary payer PAY1.

	Uniform Values						
Variable Description Value Value Description							
PAY1_X	Expected primary payer, as received from data source	n(a)	State specific coding - See the "State Specific Notes" section for details				

State Specific Notes

Information on State specific coding for this data element is available under the "State Specific Notes" section for the data element PAY1.

PAY2 - Expected secondary payer, uniform

General Notes

PAY2 indicates the expected secondary payer (Medicare, Medicaid, private insurance, etc.). To ensure uniformity of coding across data sources, PAY2 combines detailed categories in the more general groups. For example,

- Medicare includes both fee-for-service and managed care Medicare patients.
- Medicaid includes both fee-for-service and managed care Medicaid patients.
- Private insurance (PAY2 = 3) includes Blue Cross, commercial carriers, and private HMOs and PPOs.
- Other (PAY2 = 6) includes Worker's Compensation, CHAMPUS, CHAMPVA, Title V, and other government programs.

In the 1988-1997 data, the data element PAY2_N provides more detailed categories for private insurance and other payers. This data element is discontinued beginning in the 1998 data because of the difficulty of coding the information uniformly across States.

The HCUP data element PAY2_X retains the expected primary payer as provided by the data source.

Because the coding of expected primary and secondary payer is the same, information on the coding of PAY2 is available under the note for expected primary payer (PAY1).

Uniform Values				
Variable	Description	Value	Value Description	
PAY2	PAY2 Expected	1	Medicare	
secondary	2	Medicaid		
	payer, uniform	3	Private insurance	
		4	Self-pay	
		5	No charge	
		6	Other	
			Missing	
		.A	Invalid	

Uniform Values					
Variable Description Value Value Description					
		В	Unavailable from source (coded in 1988-1997 data only)		
		.C	Inconsistent in 1988-1997 data, ED951, ED952		

State Specific Notes

Information on State specific coding for this data element is available under the "State Specific Notes" section for the data element PAY1.

PAY2_X - Expected secondary payer, as received from data source

General Notes

PAY2_X retains the expected secondary payer as provided by the data source. The original values have not been recoded into uniform HCUP values and are source-specific.

Two HCUP data elements contain uniformly coded information about the expected secondary payer:

- PAY2 has general categories for Medicare, Medicaid, private insurance, and other payers.
- PAY2_N has more detailed categories for private insurance and other payers. PAY2_N is only available in the 1988-1997 HCUP databases. This data element is discontinued beginning in the 1998 data because of the difficulty of coding the information uniformly across States.

Because the coding of expected primary and secondary payer is the same, information on the coding of PAY2_X is available under the note for expected primary payer (PAY1).

	Uniform Values						
Variable	Variable Description Value Value Description						
PAY2_X	Expected secondary payer, as received from data source	n(a)	State specific coding - See the "State Specific Notes" section for details				

State Specific Notes

Information on State specific coding for this data element is available under the "State Specific Notes" section for the data element PAY1.

PRn - Procedure

General Notes

The original value of the ICD-9-CM principal procedure (PR1), whether blank or coded, is retained in the first position of the procedure vector. Starting at the first secondary procedure (PR2), the procedures are shifted during HCUP processing to eliminate blank secondary procedures. For example, if PR2 and PR4 contain nonmissing procedures and PR3 is blank, then the value of PR4 is shifted into PR3. Secondary procedures are never shifted into the principal position (PR1).

Procedures are compared to a list of ICD-9-CM codes valid for the discharge date. Anticipation of or lags in response to official ICD-9-CM coding changes are permitted for discharges occurring within a window of time around the official ICD-9-CM coding changes (usually October 1). In the 1988-1997 data, a six months window (three months before and three months after) is allowed. Beginning in the 1998 data, a year window (six months before and six months after) is allowed. For example, the code for Bone Marrow Transplant changed from "410" to "4100" as of October 1, 1988. Under HCUP validation procedures, "410" is classified as valid for discharges as late as December 31, 1988, and "4100" is classified as valid for discharges as early as July 1, 1988.

Procedures are compared to the sex of the patient (EPR03 beginning in the 1998 data and ED2nn in the 1988-1997 data) and the patient's age (EAGE05 beginning in the 1998 data and ED5nn in the 1988-1997 data) for checking the internal consistency of the record.

How invalid and inconsistent codes are handled varies by data year.

 Beginning in the 1998 data, invalid and inconsistent procedures are masked directly. Validity flags are not included on the HCUP record. Clinical Classifications Software (CCS) data elements are coded with respect to the procedure.

	Invalid Procedure	Inconsistent Code
The value of PRn	"invl"	"incn"
PRCCSn	Set to invalid (.A).	Set to inconsistent (.C)

 From 1988-1997 data, invalid and inconsistent procedures are retained on the record. Validity flags (PRVn) indicate invalid, inconsistent procedure codes. Clinical Classifications Software (CCS) data elements use the former name (PCCHPRn). The CCS was formerly known as the Clinical Classifications for Health Policy Research (CCHPRn). The procedure related data element are coded as follows:

	Invalid Procedure	Inconsistent Code
The value of PRn	Unchanged	Unchanged
PRVn	Set to 1	Set to inconsistent (.C)
PCCHPRn	Set to invalid (.A).	Retained (values 1-260)

The validity flags (PRVn) need to be used in connection with any analysis of the procedures (PRn).

A maximum of 15 procedures have been retained on a NIS inpatient record. States that provide fewer than 15 procedures have had the procedure vector padded with blank values. For example, if a state supplied 5 procedures, PR6 through PR15 are blank (" ") on all records from that state. States that provide more than 15 procedures may have information truncated. If an inpatient record from these states had more than 15 non-missing procedures, procedures in positions 16 and above were not included in the NIS file. If the number of procedures coded on this discharge (NPR) is greater than 15, secondary procedures have been truncated from the record. The following table lists the maximum number of procedures reported by each state.

State		er of Proc ded by th Source	
	1998	1999	2000
Arizona	6	6	6
California	21	21	21
Colorado	15	15	15
Connecticut	30	30	30
Florida	10	10	10
Georgia	6	6	6
Hawaii	10	10	10
Illinois	6	6	6
Iowa	6	6	6
Kansas	25	25	25
Kentucky	n/a	n/a	6
Massachusetts	10	15	15
Maryland	15	15	15
Maine	n/a	10	6
Missouri	25	25	25
North Carolina	n/a	n/a	10

State	Number of Procedures Provided by the Data Source		
	1998	1999	2000
New Jersey	8	8	8
New York	15	15	15
Oregon	6	6	6
Pennsylvania	6	6	6
South Carolina	10	10	10
Tennessee	6	6	6
Texas	n/a	n/a	6
Utah	6	6	6
Virginia	n/a	6	6
Washington	6	6	6
Wisconsin	6	6	6
West Virginia	n/a	n/a	6

Since NPR can be greater than the number of procedures available on the inpatient record, caution needs to be taken when using NPR to loop through the procedures. A counter for the loop should not extend past 15. Programming code such as the following example SAS statement is needed to take this into account:

DO I = 1 to MIN(15,NPR); Followed by code to process all procedures.END;

Uniform Values			
Variable	Description	Value	Value Description
PRn	Procedure	nnnn	Procedure code
		Blank	Missing
		invl	Invalid: beginning with 1998 data, EPR02
		incn	Inconsistent: beginning with EAGE05, EPR03

State Specific Notes

Arizona

Beginning in 1998, a few hospitals reported 5-digit codes in the procedure fields. Since ICD-9-CM procedures are have either 3 or 4 digits, these five digit codes were set to invalid.

Beginning in 1993, Arizona procedure codes were not right-padded with zeros. Arizona reported procedure codes with an explicit decimal point. The decimal point was removed during HCUP processing.

Prior to 1993, the procedure codes provided by Arizona were right-padded with zeros (e.g., the procedure code '403' was supplied as '4030'). The following algorithm was used during HCUP processing to validate the procedure codes:

Check four-digit code for validity (using a six-month window for coding changes, 3 months before and 3 months after October of each year when ICD-9-CM coding changes occur).

- 1. If four-digit code is valid, set PR1 to the four-digit code and set PRV1 = 0.
- 2. If the four-digit code is invalid and fourth digit is a zero, create a three-digit code by deleting the trailing zero and re-check for validity (using six-month window for coding changes). If the three-digit code is valid, set PR1 to the three-digit code and set PRV1 = 0.
- If both the four-digit and three-digit codes are invalid, save the original four-digit code PR1 and set the validity flag to indicate an invalid code (PRV1 = 1).

California

Shriner's hospitals do not report diagnoses, procedures or total charges.

Florida

In 1992 only, the hospitals identified below have erroneous procedure information when a patient had more than one operative episode during a stay. The first operative episode, which can be defined by one or more procedure codes, is correctly reported. The procedure codes for any subsequent operative episodes were not reported. The following hospitals, identified by the HCUP hospital identifier (HOSPID), are affected:

- HOSPID
- 390530
- 390170
- 391000
- 390067
- 390622

- 390870
- 390060
- 391060
- 390727
- 390515
- 390034

Kentucky

Kentucky supplied procedure codes in a field length of 7. Only the first four characters contained in the left-justified source field were used to assign the HCUP procedure codes.

Massachusetts

Due to an error in HCUP processing, the procedure verification table for 1988-1992 incorrectly accepted some codes as valid, on year beyond the date when these codes were deleted or superseded by more detailed codes. With the three-month grace period built into the processor, these codes were mistakenly accepted for one full year beyond the year in which they became invalid.

Examination of frequencies from the HCUP Massachusetts files found a small number of records were affected. The procedures not flagged as invalid procedure codes (PRVn = 1) are:

<u>Procedure</u>	<u>Year</u>
9971	1988
9972	1988
9974	1988
9975	1988
9978	1988
9979	1988
432	1990
493	1990
5996	1990
8141	1990
8187	1990
8899	1990

Beginning in 1993, procedures were validated correctly.

Maryland

Maryland supplied procedure codes in a field of length 5. Only the first four characters contained in the left-justified source field were used to assign the HCUP procedure codes.

New Jersey

Before 1994, the procedure codes provided by the state were right-padded with zeros (e.g., the procedure code '403' was supplied as '4030'). For the HCUP database the following algorithm was used to validate the procedure codes:

Check the four-digit code for validity (using a six-month window for coding changes, 3 months before and 3 months after October of each year when ICD-9-CM coding changes occur).

- If the four-digit code is valid, set PRn to the four-digit code and set PRVn =
 0.
- 2. If the four-digit code is invalid and the fourth digit is a zero**, create a three-digit code by deleting the trailing zero and re-check for validity (using six-month window for coding changes). If valid, set PRn to the three-digit code and set PRVn = 0.
- 3. If both the four-digit and the three-digit codes are invalid, save the original four-digit code PRn and set the validity flag to indicate an invalid code (PRVn = 1).

New Jersey

In 1993 only. Due to an error in HCUP processing, the invalid three-digit code was saved in PRn instead of the invalid four-digit code.

** In 1993 only. An error in HCUP processing caused invalid four-digit codes that ended in non-zeros, as well as zeros, to be processed by the above algorithm. If deleting the rightmost non-zero digit created a valid code, then

- PRn was set to the stripped valid code,
- PRVn was set 0 to indicate a valid code,
- PCCHPR was set based on the stripped valid code, and
- DRG, MDC, DRG10, MDC10, NEOMAT and edit check variables ED100, ED2nn, and ED5nn may have been incorrectly assigned based on the stripped valid code.

Pennsylvania

The reporting and handling of CPT and HCPCS procedure codes varies by year:

- Prior to 1995, Pennsylvania supplied only ICD-9-CM procedure codes.
- From 1995-1996, Pennsylvania supplied a mixture of ICD-9-CM, CPT and HCPCS codes. If the procedure coding system indicates CPT or HCPCS codes on the record, then the codes are set to missing. Details are provided below.
- In 1997, Pennsylvania source documentation indicated that all procedure codes were ICD-9-CM codes. Any procedure codes that were suspected of being CPT or HCPCS codes were masked during HCUP processing. Details are provided below.
- Beginning in 1998, Pennsylvania supplied only ICD-9-CM procedure codes.

Handling CPT and HCPCS Codes in 1995-1996

In 1995-1996, Pennsylvania reports ICD-9-CM procedure codes on most of their discharges, but some use CPT and HCPCS procedure codes.

HCUP processed the Pennsylvania procedure codes as follows.

- 1. PRSYS which identifies the procedure coding system was assigned based on the value reported by the data source.
- 2. NPR is the number of non-missing procedure codes supplied by Pennsylvania, regardless of coding system.
- 3. How HCUP processing handles the procedure codes depends on the coding system.
 - ICD-9-CM procedure codes (PRSYS = 1) are retained as supplied by the data source in the PRn variables and validated. Results from the validation are indicated by the PRVn variables. No changes are made to the procedure codes.
 - CPT or HCPCS procedure codes (PRSYS = 2 or 3) are set to missing (PRn = blank). CPT and HCPCS procedure codes could not be retained in the HCUP data because they are 5 characters, and the HCUP procedure fields are 4 characters in length.
 - o If the procedure coding system was invalid (PRSYS = .A) or missing (PRSYS = .), then the procedures are handled like ICD-9-CM procedure codes. Any non-missing procedure codes are retained in the PRn variables and validated. Results from the validation are indicated by the PRVn variables. Source documentation indicates that missing values for PRSYS are only allowed when no procedures are coded.

Warning: If a CPT or HCPCS procedure code was reported on a discharge in which the procedure coding system was missing, or invalid, or indicated as ICD-9-CM, then only the first four characters of the five-digit code would be retained in the PRn variable.

Handling Suspected CPT and HCPCS Codes in 1997

Even though the Pennsylvania source documentation reported that all procedures in 1997 were coded in ICD-9-CM, there were a small percentage of codes that looked suspiciously like CPT or HCPCS codes which are length 5 and start with an alphabetic character. ICD-9-CM procedure codes have no more than 4 digits and do not contain alphabetic characters (A-Z). To ensure that no CPT and HCPCS procedure codes were included in the 1997 Pennsylvania data, procedure codes were "screened" during HCUP processing.

If a procedure code was longer than 4 digits or started with an alphabetic character (A-Z), then the procedure was suspected of being a CPT or HCPCS procedure code and handled as follows:

- the procedure (PRn) was set to "PPPP",
- the validity flag (PRVn) was set to 1, and
- the classification system (PCCHPRn) was set to invalid (.A).

Otherwise, the procedure code was validated against a list of ICD-9-CM procedure codes with respect to discharge date.

Pennsylvania

From 1995-1996, the number of discharges for which the procedure coding system indicated that the procedures were CPT or HCPCS (PRSYS = 2 or 3) follows:

- NIS, Release 4 (1995 data) has no records.
- NIS, Release 5 (1996 data) has 1,711 records.

South Carolina

Prior to 2000 data, a small number of discharges explicitly included decimals in the procedure field, usually the decimal is implicit. This is problematic because South Carolina supplied procedures in a field of length 4. If decimals were included, then a valid 4-digit code would be truncated. For example, the procedure for a simple mastoidectomy "2041" would be incorrectly reported as "20.4". Prior to 1998, invalid procedure codes are marked by a validity flag (PRVn = 1). Beginning in 1998, invalid procedure codes are masked (PRn = "invl").

Beginning in 2000 data this was no longer a problem; explicit decimals were not included in the procedure codes.

Texas

Texas provides the procedure codes as reported by the hospital. Source documentation indicates that these procedure codes may be a mixture of ICD-9-CM, CPT or HCPCS codes. Because CPT and HCPCS codes are length 5 and the HCUP procedure variables (PRn) are length 4, the last digit of the CPT and HCPCS code is excluded.

Washington

Washington supplied procedure codes in a field of length 5. Only the first four characters of five contained the procedure code and were used to assign the HCUP procedure code.

Wisconsin

To comply with statutory requirements, Wisconsin modified diagnosis and procedure codes that explicitly referenced induced termination of pregnancy to eliminate distinctions between induced and spontaneous termination. The following codes were modified:

- Diagnoses with the first three digit of 634, 635, 636, 637, 638 were recoded to 637, while retaining the reported fourth digit,
- Procedure 6901 was changed to 6902.
- Procedure 6951 was changed to 6952,
- Procedure 6993 was changed to 6999.
- Procedure 7491 was changed to 7499,
- Procedure 750 was changed to 7599, and
- Procedures 9641-9649 were changed to 964 (which would be flagged as invalid, PRV=1).

Wisconsin supplied ICD-9-CM procedure codes in a field length of 5. Only the first four characters contained in the left-justified source field were used to assign the HCUP procedure codes.

West Virginia

West Virginia supplied procedure codes in a field length of 7. Only the first four characters contained in the left-justified source field were used to assign the HCUP procedure codes.

PRCCSn - Clinical Classifications Software (CCS): procedure classification

General Notes

Clinical Classifications Software (CCS) consists of 231 procedure categories. This system is clinically based on ICD-9-CM codes. All procedure codes are classified.

PRCCSn is coded as follows:

- 1 to 231 if the procedure code (PRn) is valid by the HCUP criteria. The HCUP criteria for procedure validation allows a year window (six months before and six months after) around the official ICD-9-CM coding changes (usually October 1), for anticipation of or lags in response to official ICD-9-CM coding changes.
- PRCCSn is missing (.), if there is no procedure code (PRn = " ").
- PRCCSn is set to invalid (.A), if the procedure code (PRn) is invalid by the HCUP criteria (EPR02).
- PRCCSn is set to inconsistent (.C), if the procedure code (PRn) is inconsistent with age (EAGE05) or sex of the patient (EPR03).

In HCUP databases before 1998, this data element is called PCCHPRn.

Labels

Labels for CCS categories are provided as an ASCII file in HCUP Tools: Labels and Formats.

Formats

Formats to label CCS categories are documented in HCUP Tools: Labels and Formats. A format is also available to map CCS codes into a few broad classes of conditions based on ICD-9-CM chapters.

Uniform Values					
Variable Description Value Value Description					
PRCCSn Clinical Classifications Software (CCS): procedure classification	1 - 231	CCS procedure class			
			No procedure code		
	.A	Invalid procedure code: beginning with 1998 data, EPR02			
		.C	Inconsistent: beginning with 1998 data, EAGE05, EPR03		

State Specific Notes

None

PRDAYn - Number of days from admission to procedure n

General Notes

The day on which the procedure is performed (PRDAYn) is calculated from the procedure date (PRDATEn) and the admission date (ADATE) with the following exceptions:

- PRDAYn is set to the supplied day of principal procedure if the procedure day cannot be calculated (ADATE and/or PRDATEn is missing or invalid). Note: the supplied day of procedure is used only if it distinguishes between a procedure performed on the first day (procedure day = 0) and no procedure day (procedure day is missing).
- PRDAYn is missing (.) if the procedure day cannot be calculated and the supplied procedure day is missing.
- PRDAYn is invalid (.A) if the procedure day cannot be calculated and the supplied procedure day is nonnumeric.
- If the data source does not supply either admission date (ADATE) and procedure date (PRDATEn), or the day of procedure, then beginning in the 1998 data PRDAYn is not present on the HCUP files. In the 1988-1997 data, PRDAYn is retained on the HCUP files and is set to unavailable from source (.B).
- PRDAYn is inconsistent (.C) if
 - o there is a day of procedure without a coded procedure (ED7nn), or
 - the day of procedure is not during the stay (EPRDAY01 beginning in the 1998 data and ED8nn in the 1988-1997 data).

Edit checks ED7nn are only performed on the 1988-1997 data. Beginning in the 1998 data, the procedure date without a coded procedure is discarded.

The procedure date vector (PRDATEn) is shifted with the ICD-9-CM procedure codes (PRn) when the procedure vector is packed.

Some sources do not require procedure dates/days for minor or diagnostic procedures which are considered UHDDS class 3 and class 4 procedures. The UHDDS system grouped ICD-9-CM procedure codes into four classes differentiated by impact on either the well-being of the patient or on the health care system. The criteria used to classify procedures included procedural risk, anesthetic risk, and the need for highly trained personnel, special facilities or special equipment. The classes are:

- Class 1: Surgical
- Class 2: Significant procedure (date required)
- Class 3: Significant procedure (date not required)

Class 4: Minor procedures not normally coded on inpatient data.

Uniform Values			
Variable	Description	Value	Value Description
PRDAYn	PRDAYn Number of	-41	Days prior to admission
	days from admission to	0	Day of admission
	procedure n	1 - LOS+3	Days after admission
	ľ		Missing
		.A	Invalid
	.B	Unavailable from source (coded in 1988-1997 data only)	
		.C	Inconsistent: beginning with 1998 data, EPRDAY01; in 1998-1997 data, ED7nn, ED8nn

Arizona

Beginning in 1995, only the calculated day of procedure could be used to assign PRDAY because Arizona did not supply the day of procedure. Prior to 1995, no procedure dates or days were reported.

California

Prior to 1998, the supplied day of procedure was not used when PRDAY could not be calculated because California used the same value to indicate no procedure performed and procedure performed on the day of admission.

In 1998 and 1999, only the supplied day of procedure could be used to assign PRDAY because the date of procedure was not provided. A source value of 0 days was set to missing (PRDAYn = .) if there was no corresponding procedure (PRn = "").

Beginning in 2000, procedure dates were provided by the data source and used to calculate day of procedure.

Colorado

Only the calculated day of principal procedure could be used to assign PRDAY1 because Colorado did not supply principal procedure day.

Connecticut

Procedures performed up to 72 hours before admission are reported as zero (0) days.

Florida

PRDAY1 is assigned from the supplied day of procedure. Florida did not supply the procedure date. A missing value (.) was assigned from either of the following values supplied by the data source: 998 an indicator that the number of days to procedure is greater than or equal to 998 days; and 999 an indicator of unable-to-compute days, or that no procedure was performed.

Florida also used zeros to code both missing values and a procedure performed on the day of admission. During HCUP processing, PRDAY1 was set to missing (.) if

- the reported procedure day = 0, and
- no principal procedure was reported.

Georgia

Only the reported day of procedure could be used to assign PRDAYn because Georgia did not supply procedure dates.

Hawaii

Only the calculated day of procedure could be used to assign PRDAYn because Hawaii did not supply the day of procedure.

Iowa

Only the calculated day of procedure could be used to assign PRDAY because lowa did not supply the day of procedure.

Massachusetts

The supplied day of procedure was not used when PRDAYn could not be calculated because Massachusetts used the same value to indicate no procedure performed and procedure performed on the day of admission.

Maine

Only the calculated day of procedure could be used to assign PRDAYn because Maine did not supply procedure days.

North Carolina

Only the reported day of procedure could be used to assign PRDAYn because North Carolina did not supply procedure dates.

New Jersey

Only the calculated day of procedure could be used to assign PRDAY because New Jersey did not supply the day of procedure.

New York

In the 1988-1997 HCUP New York databases, PRDAYn could not be calculated because New York did not report full admission and procedure dates. During HCUP processing, only the reported procedure day could be used to assign PRDAYn. For 1988-1992, the source miscalculated procedure days for records with admission dates in the year prior to discharge, resulting in procedure days that were not during the stay. These records failed the appropriate edit check. Beginning in 1993, the source correctly calculated procedure days for all procedures.

Beginning with the 1998 data, New York provided complete dates and PRDAYn could be calculated.

Oregon

Only the calculated day of procedure could be used to assign PRDAYn because Oregon did not supply procedure days.

Pennsylvania

In 1992, Pennsylvania data contained many out-of-range procedure days due to a processing error at the state data organization. As a rule in HCUP processing, records that contain procedure days not during the stay are flagged by an edit check and the procedure day (PRDAYn) is set to inconsistent (.C).

In 1994, principal procedure days could not be calculated for all patients admitted prior to January 1, 1994 because the source did not report a valid principal procedure date for these patients. Procedure days were calculated correctly for secondary procedures.

In 1995, the data source arbitrarily set the year of procedure date equal to the discharge year. This results in a number of out-of-range procedure days. Records that contain procedure days not during the stay are flagged by an edit check and the procedure data and day are set to inconsistent (.C).

Also in 1995, a data processing error in the source data resulted in a number of records with procedure dates without matching procedures. These records are flagged by an edit check during HCUP processing.

By 1996, all major problems with procedure dates were resolved.

South Carolina

Only the calculated day of procedure could be used to assign PRDAYn because South Carolina did not supply the day of procedure.

Tennessee

Only the calculated day of procedure could be used to assign PRDAYn because Tennessee did not supply the day of procedure.

Virginia

Day of procedure could not be calculated from dates because Virginia did not report procedure dates. During HCUP processing, only the reported day of procedure could be used to assign PRDAY1.

Wisconsin

Until 1997, PRDAYn could not be calculated because Wisconsin did not report procedure dates. During HCUP processing, only the reported procedure day could be used to assign PRDAYn. Beginning in 1997, Wisconsin provided the date of principal procedure (PRDATE1).

Principal procedure day is only required for major procedures (defined below). Procedure days are set to missing for all other cases.

Major procedures are defined as Class 1 or 2 procedures. The UHDDS system grouped ICD-9-CM procedure codes into four classes differentiated by impact on either the well-being of the patient or on the health care system. The criteria used to classify procedures included procedural risk, anesthetic risk, and the need for highly trained personnel, special facilities or special equipment. The classes are:

- Class 1: Surgical
- Class 2: Significant procedure (date required)
- Class 3: Significant procedure (date not required)

•	Class 4: Minor procedures not normally coded on inpatient data

RACE - Race

General Notes

HCUP coding includes race and ethnicity in one data element (RACE). If the source supplied race and ethnicity in separate data elements, ethnicity takes precedence over race in setting the HCUP value for race.

Two HCUP data elements contain source-specific information about the race and ethnicity of the patient.

- RACE_X retains information on the race of the patient as provided by the data source.
- HISPANIC_X retains information on the Hispanic ethnicity as provided by the data source.

Not all data sources provide information on race and ethnicity.

States providing race/ethnicity information are listed in the "State Specific Notes" section below. RACE_X and HISPANIC_X are not available on the HCUP Nationwide Inpatient Sample (NIS).

Uniform Values					
Variable	Description	Value	Value Description		
RACE	Race	1	White		
		2	Black		
		3	Hispanic		
	4 Asian o		Asian or Pacific Islander		
		5	Native American		
		6	Other		
			Missing		
			Invalid		
		В	Unavailable from source (coded in 1988-1997 data only)		

State Specific	Notes
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Arizona

Arizona				
RACE_X		RACE		
Value	Description	Value	Description	
5	Caucasian, Non Hispanic	1	White	
3	Black	2	Black	
4	Caucasian, Hispanic	3	Hispanic	
2	Asian, Pacific Islander	4	Asian or Pacific Islander	
1	American Indian, Aleut, Eskimo	5	Native American	
6	Other	6	Other	
9	Refused		Missing	
Blank	Missing			
Any values not documented by the data source				
Separate information on ethnicity is not provided. HISPANIC_X is not available.				

California

	California			
	RACE_X		RACE	
Value	Description	Value	Description	
1	White	1	White	
2	Black	2	Black	
If HISPA	ANIC_X = 1	3	Hispanic	
4	Asian/Pacific Islander	4	Asian or Pacific Islander	
3	Native American/Eskimo/Aleut	5	Native American	
5	Other	6	Other	
6	Unknown		Missing	
Blank	Missing		Wilsonig	
Any values not documented by the data source		.A	Invalid	
HISPANIC_X				
	1	Hispani	ic	
2		Non-Hispanic		
3		Unknown		

Information on ethnicity was provided by California and used to code RACE beginning in 1995. The variable HISPANIC_X was retained on the HCUP databases beginning in 1998.

There are a small number of discharges with undocumented values in HISPANIC_X that are not considered valid by the data source.

Colorado

Colorado					
	RACE_X RACE				
Value	Description	Value	Description		
1	White	1	White		
2	Black	2	Black		
5	Hispanic	3	Hispanic		
3	Asian	4	Asian or Pacific Islander		
4	Native American	5	Native American		
6	Other	6	Other		
7,0, Blank	Missing		Missing		
Any other values .A Invalid			Invalid		
Separate information on ethnicity is not provided. HISPANIC_X is					

not available.

Connecticut

	Connecticut				
RACE_X			RACE		
Value	Description	Value	Description		
1	White	1	White		
2	Black	2	Black		
If HISPA	NIC_X=1	3	Hispanic		
5	Spanish/Hispanic		Пізрапіс		
3	Oriental/Asian	4	Asian or Pacific Islander		
7	Pacific Islander/Hawaiian				
4	American Indian	5	Native American		
6	Other 6		Other		
8	Other non-white		Other		
Blank	Missing		Missing		
Anv valu	ues not documented by the data	.A	Invalid		

source	
	HISPANIC_X
1	Spanish/Hispanic origin
2	Non-Spanish/Non-Hispanic

Florida

Florida				
	RACE_X	RACE		
Value	Description	Value Description		
4	White	1	White	
3	Black	2	Black	
5	Hispanic - White	3	Hispanic	
6	Hispanic - Black		Hispanic	
2	Asian or Pacific Islander	4	Asian or Pacific Islander	
1	American Indian/Eskimo/Aleut	5	Native American	
7	Other	6	Other	
8, Blank	No Response, Missing		Missing	
Any values not documented by the data source				
Separate information on ethnicity is not provided. HISPANIC_X is not available.				

Hawaii

In the source data files provided by Hawaii, the coding of race of the patient was different for each Hawaiian hospital. During HCUP processing, the hospital-specific values were recoded into the values of RACE_X described below.

Hawaii				
	RACE_X		RACE	
Value	Description	Value	Description	
1	White	1	White	
2	Black	2	Black	
3	Hispanic	3	Hispanic	
4	Hawaiian	4	Asian or Pacific	
5	Chinese		Islander	
6	Filipino			

7	Japanese		
8	Other Asian		
9	Other Pacific Islander		
10	Native American	5	Native American
11	Mixed or Other	6	Other
99, Blank	Missing		Missing
А	Any values not documented by the data source	.A	Invalid

One hospital (DSHOSPID = "120014") provides only one category for Asian patients, instead of distinguishing Chinese, Filipino, and Japanese races. For this hospital, the one category for Asian was recoded to "Other Asian" (RACE_X = "8").

One hospital (DSHOSPID = "12001F") provides only one category for Asian/Pacific Islander patients, instead of distinguishing Hawaiian, Chinese, Filipino, Japanese and other Asian and Pacific Islander races. For this hospital, the one category for Asian/Pacific Islander was recoded to "Other Asian" (RACE_X = "8").

Separate information on ethnicity is not provided by any Hawaiian hospital. HISPANIC X is not available.

Iowa

lowa				
	RACE_X		RACE	
Value	Description	Value	Description	
1	White	1	White	
2	Black	2	Black	
		3	Hispanic	
4	Asian or Pacific Islander	4	Asian or Pacific Islander	
3	American Indian or Alaskan native	5	Native American	
		6	Other	
9, Blank	Other/Unknown, Missing	-	Missing	
Any values not documented by the data source				
lowa does not separately classify Hispanic (RACE = 3). No documentation was available about how these were coded.				

HISPANIC_X is not available.

lowa uses one category for "Other" and "Unknown", which is assigned to the HCUP category for missing (.).

Some lowa hospitals report "Other" race for all or a high percentage of their discharges. Some hospitals report "White" race for all discharges.

Kansas

Kansas				
RACE_X			RACE	
Value	Description	Value	Description	
1	White	1	White	
2	Black	2	Black	
4	Hispanic	3	Hispanic	
5	Asian/Pacific Islander	4	Asian or Pacific Islander	
3	American Indian/Eskimo	5	Native American	
6	Other	6	Other	
Blank	Missing		Missing	
Any values not documented by the dat source		.A	Invalid	
Separate information on ethnicity is not provided. HISPANIC, X is				

Separate information on ethnicity is not provided. HISPANIC_X is not available.

Massachusetts

	Massachusetts				
(Valid beginning October 1999)					
	RACE_X RACE				
Value Description		Value	Description		
1	White	1	White		
2	Black	2	Black		
4	Hispanic	3	Hispanic		
3	Asian	4	Asian or Pacific Islander		
5	American Indian	5	Native American		
6	Other	6	Other		

9, Blank Unknown, Missing		Missing
Any values not documented by the data source	.A	Invalid
Separate information on ethnicity is not provided. HISPANIC_X is not available.		

Massachusetts (Valid prior to October 1999)				
Value	Description	Value Description		
1	White	1	White	
2	Black	2	Black	
9	Hispanic	3	Hispanic	
6	Asian	4	Asian or Pacific Islander	
5	American Indian	5	Native American	
3	Other	6	Other	
4, Blank	Unknown, Missing		Missing	
	not documented by the data	.A	Invalid	
Separate information on ethnicity is not provided. HISPANIC_X inot available.				

Maryland

Beginning in 1993, Maryland reported Hispanic ethnicity as a separate variable. If patient ethnicity was coded as Spanish/Hispanic origin, patient race was set to Hispanic (RACE = 3) during HCUP processing.

Prior to 1993, Maryland did not report Hispanic ethnicity as a separate variable or category of race. Hispanic ethnicity (RACE = 3) is not coded in the 1988-1992 HCUP Maryland data. The source documentation available for Maryland did not indicate which race code(s) were used for Hispanic ethnicity.

Maryland			
RACE_X RACE			
Value	Description	Value Description	
1	White	1	White

2	African American	2	Black	
If HISP	If HISPANIC_X = 1		Hispanic	
3	Asian or Pacific Islander	4	Asian or Pacific Islander	
4	American Indian, Eskimo, Aleut	5	Native American	
5	Other	6	Other	
9	Unknown		Missing	
Blank	Missing	-	IVIISSII IG	
Any values not documented by the data source		.A	Invalid	
	HISPANIC_X			
1		Spanish/Hispanic origin		
2		Not of Spanish/Hispanic origin		
9		Unknown		

Missouri

Missouri				
RACE_X		RACE		
Value	Description	Value Description		
1	White	1	White	
2	Black	2	Black	
4	Hispanic	3	Hispanic	
5	Asian/Pacific Islander	4	Asian or Pacific Islander	
3	American Indian/Eskimo	5	Native American	
6	Other	6	Other	
9, Blank	Unknown, Missing		Missing	
Any value source	s not documented by the data	.A	Invalid	
Separate information on ethnicity is not provided. HISPANIC_X is not available.				

North Carolina

North Carolina			
	RACE_X RACE		
Value	Description	Value	Description

4	White	1	White	
3	Black	2	Black	
		3	Hispanic	
2	Asian or Pacific Islander	4	Asian or Pacific Islander	
1	American Indian/Eskimo	5	Native American	
5	Other Race	6	Other	
0, 6, Blank	Missing	-	Missing	
Any values not documented by the data source		.A	Invalid	

Separate information on ethnicity is not provided. HISPANIC_X is not available.

Reporting of the race of the patient is optional for hospitals in North Carolina.

New Jersey

	New Jersey			
	RACE_X	RACE		
Value	Description	Value Description		
1	White	1	White	
2	Black	2	Black	
If HISPA	ANIC_X = 1, 2, 3, 4, or 5	3	Hispanic	
4	Chinese			
5	Japanese		Asian or Pacific Islander	
6	Hawaiian (including part Hawaiian)	4		
7	Filipino			
8	Other Asian or Pacific Islander			
3	Indian (North American, Central American, South American, Eskimo, Aleut)	5	Native American	
0	Other races	6	Other	
9, Blank	Unknown, Missing		Missing	
Any values not documented by the data source		.A	Invalid	
	HISPANIC_X			
	0 Non-Hispanic			

1	Mexican
2	Puerto Rican
3	Cuban
4	Central or South American
5	Other and Unknown Hispanic
9	Not Classified or Unknown

Beginning in 1993. New Jersey reported Hispanic ethnicity as a separate variable. If patient ethnicity was coded as Hispanic (Mexican, Puerto Rican, Cuban, Central or South American, Other or Unknown Hispanic), patient race was set to Hispanic (RACE = 3) during HCUP processing.

Prior to 1993. New Jersey reported Hispanic ethnicity as a category of race. If New Jersey reported patient race as Hispanic, HCUP assigned patient race as Hispanic (RACE = 3).

New York

	New York			
RACE_X			RACE	
Value	Description	Value Description		
01	White	1	White	
02	African American (Black)	2	Black	
If HISPA	ANIC_X = 1	3	Hispanic	
04	Asian or Pacific Islander	4	Asian or Pacific Islander	
03	Native American (American Indian, Eskimo, Aleut)	5	Native American	
88	Other	6	Other	
99, Blank	Not Available, Missing	-	Missing	
Any valu	ues not documented by the data	.A	Invalid	
HISPANIC_X				
	1 Spanish/Hispanic origin		sh/Hispanic origin	
Not of Spanish/Hispani origin		Spanish/Hispanic		

9	Unknown
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Pennsylvania

Pennsylvania				
	RACE_X		RACE	
Value	Description	Value Description		
W	White	1	White	
В	Black	2	Black	
If HISPAN	NIC_X = 1	3	Hispanic	
А	Asian or Pacific Islander	4	Asian or Pacific Islander	
I	Native American or Eskimo	5	Native American	
N	Other	6	Other	
U, Blank	Unknown, Missing		Missing	
Any value data sour	es not documented by the ce	.A Invalid		
	HISPAN	IC_X		
1	Hispanic/Latino origin or descent			
2		Not of Hispanic/Latino origin of descent		

South Carolina

South Carolina			
RACE_X			RACE
Value	Description	Value	Description
1	White	1	White
2	Black	2	Black
6	Hispanic	3	Hispanic
3	Oriental Asian	4	Asian or Pacific Islander
4	American Indian	5	Native American
5	Other	6	Other
Blank	Missing		Missing
Any values source	not documented by the data	.A	Invalid

Separate information on ethnicity is not provided. HISPANIC_X is not available.

Tennessee

Tennessee				
RACE_X			RACE	
Value	Description	Value Description		
0	White, not Hispanic			
7	White, Hispanic origin unknown	1	White	
1	Black, not Hispanic			
8	Black, Hispanic origin unknown	2	Black	
5	White, Hispanic	3	Hispanic	
6	Black, Hispanic			
3	Asian or Pacific Islander	4	Asian or Pacific Islander	
4	American Indian/Alaskan Native	5	Native American	
2	Other	6	Other	
9, Blank	Unknown, Missing		Missing	
Any values not documented by the data source		.A	Invalid	
Separate information on ethnicity is not provided. HISPANIC_X is not available.				

Texas

Texas			
RACE_X			RACE
Value	Description	Description Value Description	
4	White	1	White
3	Black	2	Black
If HISPA	ANIC_X = 1	3	Hispanic
2	Asian or Pacific Islander	4	Asian or Pacific Islander
1	American Indian/Eskimo/Aleut	5	Native American
5	Other	6	Other
Blank	Missing		Missing

" * " or any values not documented by the data source		Invalid		
HISPANIC_X				
1 Hispanic origin				
2	Not of Hispanic origin			
*	Invalid			

Utah

Utah				
RACE_X			RACE	
Value	Description	Value Description		
W	White, non-Hispanic origin	1	White	
		2	Black	
WH	White, Hispanic origin	3	Hispanic	
NW	Non-white, Hispanic origin		пізрапіс	
		4	Asian or Pacific Islander	
		5	Native American	
NH	Non-white, non-Hispanic origin	6	Other	
UK, Blank	Unknown, Missing		Missing	
Any values not documented by the data source			Invalid	
Separate information on ethnicity is not provided. HISPANIC_X is not available.				

Virginia

	Virginia			
	RACE_X		RACE	
Value	Description	Value	Description	
0	White	1	White	
1	Black	2	Black	
5	Hispanic	3	Hispanic	
6	Black Hispanic	3		
3	Asian	4	Asian or Pacific Islander	
4	American Indian	5	Native American	

2	Other	6	Other	
9, Blank	Unknown, Missing	-	Missing	
Any values not documented by the data source				
Separate information on ethnicity is not provided. HISPANIC_X is not available.				

Wisconsin

Wisconsin					
	RACE_X	RACE			
Value	Description	Value Description			
4	White	1	White		
3	Black	2	Black		
If HISPA	NIC_X = 1	3	Hispanic		
2	Asian or Pacific Islander	4	Asian or Pacific Islander		
1	American Indian or Alaskan Native	5	Native American		
5	Other	6	Other		
6, Blank	Unknown, Missing	-	Missing		
Any valu source	es not documented by the data	A Invalid			
	HISPANIC_X				
	1 Hispanic origin		nic origin		
	2	Not of Hispanic origin			
	6	Unknown			

SURGID_S - Synthetic primary surgeon number

General Notes

SURGID_S contains a fixed-key (one-to-one) encryption of the supplied primary surgeon number (SURGID), according to the following rules:

- All alphanumeric digits are used in the encryption.
- All symbols such as ".,:;'*@" are retained in the encrypted value, but not in the same location.
- Leading zeros are encrypted so that the two original physician identifiers "000A6" and "A6" are distinctly different.
- When the original attending physician and primary surgeon identifiers are the same, the synthetic identifiers, MDID_S and SURGID_S, are the same.
- When the SURGID in the ambulatory surgery data and the inpatient data are the same, the synthetic identifier, SURGID S is the same.

Except in those data sources where physician license numbers are supplied, it is not known whether the physician identifier SURGID_S refers to individual physicians or to groups. If the primary surgeon numbers supplied by the data source are not restricted to license numbers, the state-specific note includes available information about reporting practices, including whether SURGID_S refers to individual physicians or to groups.

Beginning in the 1993 data, supplied physician identifiers were checked for null characters. If null characters were found, they were replaced by blanks before the identifier was encrypted. Since this conversion was not done in prior years of HCUP data, the encrypted physician identifiers from 1993 on may not match those in earlier years. However, null characters are rarely included.

Beginning with 1993 NIS, supplied surgeon identifiers were checked for null characters. If null characters were found, they were replaced by blanks before the identifier was encrypted. Since this conversion was not done in prior years of HCUP inpatient data, the encrypted surgeon identifiers from 1993 on may not match those in earlier years. However, no null characters were found in the 1994 identifiers, and they were rare in prior years.

Uniform Values			
Variable	Description	Value	Value Description
SURGID_S	Synthetic	16(a)	Synthetic physician identifier
	primary surgeon number	Blank	Missing

Arizona

The identification number for primary surgeons (SURGID_S) may not accurately track physicians across hospitals for the following reasons:

- Some hospitals assign their own internal other physician identification numbers rather than using the license numbers issued by the licensing agency of the physician or other health care practitioner. Information was not available about the prevalence of this practice.
- Some hospitals use one identification number for several physicians that are part of the same physician practice group. Information was not available about the prevalence of this practice.

Arizona's identification number for primary surgeons includes license numbers from the following board of examiners: Medical, Osteopathic, Podiatrists, and Nurses. In addition, Arizona accepts licensing numbers from other health practitioner licensing boards, but these boards are unspecified.

Colorado

The primary surgeon number (SURGID_S) may not accurately track physicians across hospitals. The state encourages hospitals to use the Professional State License Number as an identifier, but some hospitals continue to use their own internal identification number. Also, some hospitals appear to pad the Professional State License Number (a 5-digit code). Information was not available from the data source about the prevalence of these practices.

Some hospitals may use one license number for all physicians in order to protect physician confidentiality. Information was not available about the prevalence of this practice.

Florida

Florida reports state license numbers for the operating physician identifiers. During HCUP processing, physician identifiers were encrypted (SURGID_S).

Iowa

Beginning in 1994, Iowa reports a principal physician ID (SURGID_S) in addition to the attending physician ID (MDID_S).

lowa reports Universal Physician Identification Numbers (UPINs) as physician identification numbers.

Kentucky

The encrypted identifier for the physician performing the principal procedure (SURGID_S) may not accurately track physicians across hospitals. Kentucky collects two different types of physician identifiers, Universal Physician Identification Numbers (UPINs) and state license numbers.

Maine

Maine provides state-specific encrypted physician identifiers for operating surgeons that allow for tracking physicians across hospitals.

Caution should be used when tracking physicians back to 1999. The encrypted values supplied by the source in the 1999 inpatient data contained slightly different coding than the values supplied in the 1999 outpatient and 2000 inpatient data. During HCUP processing, physician identifiers were re-encrypted (SURGID S).

Maryland

Maryland reports a state license number assigned by the Medical Chirurgical Faculty of Maryland (MED CHI) for the operating physician. Source documentation describes strict assignment and verification rules for this field.

Missouri

The primary surgeon identification number (SURGID_S) may not accurately track physicians across hospitals. Missouri accepts Universal Physician Identification Numbers (UPINs), state license numbers, and hospital-assigned physician identification numbers as primary surgeon numbers. According to the source, the majority of physician identifiers are UPINs.

New Jersey

The coding of primary surgeon identification number (SURGID_S) varies across years:

<u>Year</u>	Physician Identifier	
1988-93	New Jersey state license numbers	
1994-95	Universal Physician Identification Numbers (UPINs)	
Beginning in 1996	New Jersey state license numbers.	

New York

New York reports state license numbers as physician identifiers. Source documentation indicates that if the operating physician did not possess a valid New York state license number, the license number of the operating physician or Chief of Service should have been reported.

New York does not limit this field to physicians; dentists, podiatrists, psychologists, nurse/midwifes, and other licensed health care professionals may be included. It is impossible to identify the different types of providers in the HCUP data.

Source physician identifiers are encrypted during HCUP processing.

In the 1998-2000 data, physician identifiers are missing (" ") on discharges with an indication of an induced abortion. New York identifies an indication of induced abortion by ICD-9-CM diagnosis or procedure code:

- An admitting, principal, or secondary diagnosis of '6350' through '6399', or '7796'.
- A principal or secondary procedure of '690', '695', 696', 6993', 738', 7491', '750', '751', or '9649'.

Please note that the admitting diagnosis is not retained in the HCUP databases.

Oregon

An identifier for the 1st Other Physician was provided by Oregon and encrypted during HCUP processing (SURGID_S). This identifier may not accurately track physicians across hospitals. Oregon encourages hospitals to use Universal Physician Identification Numbers (UPINs), but not all hospitals do. Information was not available from the data source about the prevalence of this practice.

Pennsylvania

Pennsylvania reports the PA state license number for the operating physician.

South Carolina

South Carolina reports six-character state license numbers for other physician identifiers. When the source values were shorter than six characters, the HCUP value was padded to bring it into conformity with South Carolina's format before the value was encrypted.

Tennessee

The encrypted identification number for the first other physician is retained in SURGID_S. SURGID_S may not accurately track physicians across hospitals. Tennessee collects two different types of physician identifiers, depending on the type of identifier provided by the hospitals. Tennessee prefers Universal Physician Identification Numbers (UPINs) but also accepts state license numbers. If neither identification number is available, SURGID_S is missing (SURGID_S = blank).

Texas

Texas provides the state license number of the operating physician. During HCUP processing, physician identifiers were re-encrypted (SURGID_S).

Virginia

Virginia reports the physician performing first procedure using Universal Physician Identification Numbers (UPINs). During HCUP processing, physician identifiers were encrypted (SURGID_S).

Washington

Washington reports this identifier as "Other Physician ID" which can refer to any physician who performs the procedure, not just a surgeon.

The Washington physician identifiers may not accurately track physicians across hospitals. Washington collects several different types of physician identifiers, depending on the type of identifier provided by the hospitals. Hospitals provide Medicaid, Universal Physician Identification Numbers (UPINs), and DOH/HPQAD license numbers as physician identifiers. During HCUP processing, physician identifiers were re-encrypted (SURGID S).

West Virginia

The encrypted other physician identifier (SURGID_S) may not accurately track physicians across patients and hospitals. West Virginia collects different types of physician identifiers depending on the payer:

- The Universal Physician Identification Numbers (UPINs) are coded on Medicare patients.
- A West Virginia Medicaid physician identifier is coded on Medicaid patients. The same physician treating two different Medicaid patients can have two different physician identifiers. One identifier is used for new Medicaid patients; the other identifier is used for established Medicaid patients.
- The physician's state license number is coded on most commercial patients. Some hospitals use their own physician identifiers and do not provide the UPIN, Medicaid and state license numbers.

TOTCHG - Total charges, cleaned

General Notes

TOTCHG contains the edited total charges. The original value provided by the data source is retained in the data element TOTCHG_X. How total charges are edited depends on the year of the data.

In the 1988-1997 HCUP databases, the following edits are applied to total charges (TOTCHG):

- Values are rounded to the nearest dollar; and
- Zero charges are set to missing(.);
- · Negative charges are set to invalid (.A); and
- For HCUP inpatient databases, if charges per day (TOTCHG/LOS) are unjustifiably low (ED911) or high (ED921), then TOTCHG is set to inconsistent (.C).
- For HCUP outpatient databases, if total charges are excessively low (ED912) or high (ED922), then TOTCHG is set to inconsistent (.C). (SASD)

Beginning in the 1998 HCUP databases, the following edits are applied to total charges (TOTCHG):

- Values are rounded to the nearest dollar; and
- Zero charges are set to missing (.);
- If total charges are excessively low (ETCHG01) or high (ETCHG02), then TOTCHG is set to inconsistent (.C). The limits for excessively low and high total charges vary for inpatient and outpatient databases.

Generally, total charges (TOTCHG and TOTCHG_X) do not include professional fees and non-covered charges. If the source provides total charges with professional fees, then the professional fees are removed from the charge during HCUP processing. In a small number of HCUP databases, professional fees can not be removed from total charges because the data source cannot provide the information. In these rare cases, the HCUP data element PROFEE, that identifies which records have professional fees included in the total charge, is included on the HCUP database.

Emergency department charges incurred prior to admission to the hospital may be included in total charges (TOTCHG and TOTCHG_X). Medicare requires a bundled bill for Medicare patients admitted to the hospital through the emergency department. Other payers may or may not have similar requirements.

Emergency department charges incurred prior to admission to the hospital may be included in total charges (TOTCHG and TOTCHG_X). Medicare requires a bundled bill for Medicare patients admitted to the hospital through the emergency department. Other payers may or may not have similar requirements.

Uniform Values			
Variable	Description	Value	Value Description
TOTCHG	Total charges, cleaned	25 - 1 million	Total Charge rounded (In the 1988- 1997 data, TOTCHG can be less than 25 and greater than 1 million)
			Missing
		.A	Invalid
		.B	Unavailable from source (coded in 1988-1997 data only)
		.C	Inconsistent: beginning with 1998 data, ETCHG01, ETCHG02; in 1998-1997 data, ED911, ED912, ED921, ED922

State Specific Notes

Arizona

Beginning in 1996, Arizona included charges for professional fees and patient convenience items in its total charges. Any charges for professional fees and convenience items were subtracted from the reported total charges during HCUP processing to make Arizona total charges (TOTCHG and TOTCHG_X) comparable to data from other states.

Due to an error in HCUP processing in 1996, some types of professional fees were not subtracted from total charges (TOTCHG and TOTCHG_X). The types of professional fees that were not subtracted include hospital visits, consultations, private duty nurses, EKGs, EEGs, and medical social services. Charges for these services were coded on 24% of the 1996 discharges, with a mean charge of \$216 and a range from \$1 to \$5,718.

Beginning in 1997, all reported professional fees and patient convenience items were subtracted from total charges (TOTCHG and TOTCHG X).

California

California supplied total charges only for the last 365 days of the stay for stays of more than one year (365 days). If the supplied length of stay was greater than 365 days, cleaned total charges, TOTCHG, was set to missing (.) and uncleaned total charges, TOTCHG_X, retained the supplied total charge. Due to an error in HCUP processing, cleaned total charges, TOTCHG, were not set to missing in the 1998-1999 HCUP files.

Some hospitals in California (including all Kaiser and Shriner hospitals) were exempted from reporting total charges. For those hospitals, TOTCHG and TOTCHG X were missing (.).

Source documentation indicated that hospital-based physician fees were not included in the reported total charges.

No Charges

The source reported total charges with the value of 1 for discharges with no charges (\$0). These records include live donors and courtesy or research patients. Values of 1 were verified with the hospital by the source.

Prior to 1995, total charges were set to missing (TOTCHG and TOTCHG_X = .) for these records during HCUP processing. Beginning in 1995, only TOTCHG was set to missing (.) and TOTCHG_X retained the value of 1. Due to an error in HCUP processing, cleaned total charges, TOTCHG, were not set to missing in the 1998-1999 HCUP files.

Colorado

According to Colorado, hospital based physician fees are excluded from total charges (TOTCHG and TOTCHG X).

Connecticut

Connecticut includes non-covered charges in the total charges if they are reported by hospitals, but does not report non-covered charges separately. The HCUP uniform total charges (TOTCHG) could not be adjusted to exclude non-covered charges. (Non-covered charges include items such as telephone and television).

lowa

Beginning in 1993, lowa includes professional fees in its total charges if the hospital combines hospital and professional bills. Professional fees are

subtracted from total charges (TOTCHG and TOTCHG_X) during HCUP processing to make lowa total charges comparable to data from other states.

Prior to 1993, it was optional for hospitals to report total charges to the hospital association:

- The availability of total charges varies by hospital.
- Some hospitals have missing (.) total charges (TOTCHG and TOTCHG X) on a large percentage of records.

Kansas

It was optional for hospitals to provide total charges to the hospital association. Approximately one fifth to one quarter of the discharges are missing total charges.

Some hospitals report total charges of \$1.00 for all discharges. For 1993-1994, the \$1.00 charges are included in the HCUP data. Beginning with 1995, total charges of \$1.00 in the Kansas inpatient data were set to missing (.).

Due to an error in 1994 HCUP processing, TOTCHG values of "invalid" (.A) were recoded to TOTCHG values of "missing" (.).

Massachusetts

Massachusetts included professional fees in its detailed and total charges, if these were included by the hospital. Hospitals are allowed, but not required, to report these professional fees in the charge fields. Individual facilities decide which professional fees are included and where. There is no way to determine which hospitals did or did not include professional fees.

Maine

Professional charges were subtracted from the supplied total charge during HCUP processing to make Maine total charges (TOTCHG) comparable to data from other states.

Maryland

Maryland excluded the following from total charges:

- Physician charges and
- Charges not regulated by the Health Services Cost Review Commission (for example, telephone service, television charges or private duty nursing charges).

Missouri

According to the Missouri Hospital Association, most hospitals excluded professional fees from total charges (TOTCHG and TOTCHG_X).

New York

For the 1988-1993 HCUP files, New York supplied their Master File which consists of Discharge Data Abstracts (DDA) matched to Uniform Billing Forms (UBF) for inpatient stays. Information on total charges is included in the UBF part of the record. Due to an administrative change in the collection of billing records for 1989, a large percentage of the DDAs could not be matched to a UBF. When there was no match, charge information is missing. The match rate improves over time and stabilizes after 1991. The percentage of DDA records that have a matching UBF record in the Master File are as follows:

1988	77.2%
1989	26.3%
1990	62.8%
1991	93.7%
1992	91.8%
1993	95.5%.

Beginning in the 1994 data, hospitals submitted discharge records to New York in a new format, using Universal Data Set (UDS) specifications. This format combines the old UBF and DDA data into a single submission record.

Adjustment to Charges for Interim Bills

- For 1988-1993, when the length of stay from the Discharge Data Abstract did not equal the length of the billing period from the Uniform Billing Form, total charges (TOTCHG) were set to missing (.) because this billing information pertained only to the billing period, not the complete inpatient stay. However, TOTCHG_X contains the original value from the billing record.
- Beginning in 1994, billing dates were not reported by New York and the adjustment to charge details (CHGn, RATEn, UNITn, REVCDn) was not made.

Oregon

Kaiser hospitals are exempt from reporting total charges. As a result, TOTCHG and TOTCHG_X are missing (.) for Kaiser hospitals in Oregon.

Beginning in the 1995 data, some hospitals did not report total charges (TOTCHG and TOTCHG_X) on charity bills since there are no charges to the patient.

Pennsylvania

Prior to 1997, non-covered charges and professional charges were subtracted from the supplied total charge during HCUP processing to make Pennsylvania total charges (TOTCHG) comparable to data from other states.

Beginning in 1997, Pennsylvania supplied total charges that did not include non-covered and professional charges.

South Carolina

Beginning in 1996, professional fees and charges for patient convenience items were subtracted from the reported total charges during HCUP processing to make South Carolina total charges (TOTCHG and TOTCHG_X) comparable to data from other states.

Prior to 1996, only professional fees were subtracted from the reported total charges because the source did not supply an itemized charge for patient convenience items.

Texas

Total charges are not available in the Texas data until July 2000. Non-covered accommodation and ancillary charges were subtracted from the supplied total charge during HCUP processing to make Texas total charges (TOTCHG) comparable to data from other states.

Virginia

The maximum value allowed for total charges in the Virginia source files is \$9,999,999.

Wisconsin

Wisconsin may have included professional fees and convenience items in its total charges. Hospitals are instructed to remove these fees from total charges, but some hospitals do not subtract them and others have had difficulties with their accounting software. There is no way to determine which hospitals did or did not include these items.

Hospitals are not required to report total charges for stays over 100 days.

Wisconsin

An error during HCUP processing of 1993 discharges caused negative values of total charges (TOTCHG) to be set to missing (.) instead of invalid (.A). For other years, negative values of TOTCHG were processed correctly.

West Virginia

West Virginia has rate setting. The data source confirms that the all covered charges are included in the total charge (TOTCHG).

TOTCHG_X - Total charges, as received from data source

General Notes

TOTCHG_X retains the total charge supplied by a data source, including cents and negative values, with the following exceptions:

- Zero charges are set to missing (.); and
- Charges that round to zero are set to missing (.).

TOTCHG_X has the same value as TOTCHG just before edit checks on total charges are performed. TOTCHG contains the cleaned total charges. TOTCHG X contains the original value of total charges.

Generally, total charges (TOTCHG and TOTCHG_X) do not include professional fees and non-covered charges. If the source provides total charges with professional fees, then the professional fees are removed from the charge during HCUP processing. In a small number of HCUP databases, professional fees can not be removed from total charges because the data source cannot provide the information. In these rare cases, the HCUP data element PROFEE, that identifies which records have professional fees included in the total charge, is included on the HCUP database.

In some cases, only copay amounts, such as \$10 or \$20, may be in the total charges. There is no documentation as to the prevalence of this practice.

Emergency department charges incurred prior to admission to the hospital may be included in total charges (TOTCHG and TOTCHG_X). Medicare requires a bundled bill for Medicare patients admitted to the hospital through the emergency department. Other payers may or may not have similar requirements.

Uniform Values			
Variable	Description	Value	Value Description
_	Total charges, as received	+/- 100 million	Total charge (with 2 decimal places)
	from data source	. Missing	Missing
	Source	.A	Invalid (nonnumeric or out of range)

State Specific Notes	
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Arizona

Beginning in 1996, Arizona included charges for professional fees and patient convenience items in its total charges. Any charges for professional fees and convenience items were subtracted from the reported total charges during HCUP processing to make Arizona total charges (TOTCHG and TOTCHG_X) comparable to data from other states.

Due to an error in HCUP processing in 1996, some types of professional fees were not subtracted from total charges (TOTCHG and TOTCHG_X). The types of professional fees that were not subtracted include hospital visits, consultations, private duty nurses, EKGs, EEGs, and medical social services. Charges for these services were coded on 24% of the 1996 discharges, with a mean charge of \$216 and a range from \$1 to \$5,718.

Beginning in 1997, all reported professional fees and patient convenience items were subtracted from total charges (TOTCHG and TOTCHG_X).

California

California supplied total charges only for the last 365 days of the stay for stays of more than one year (365 days). If the supplied length of stay was greater than 365 days,

- cleaned total charges, TOTCHG, was set to missing (.) and
- uncleaned total charges, TOTCHG X, retained the supplied total charge.

Some hospitals in California (including all Kaiser and Shriner hospitals) were exempted from reporting total charges. For those hospitals, TOTCHG and TOTCHG_X were missing (.).

Source documentation indicated that hospital-based physician fees were not included in the reported total charges.

No Charges

The source reported total charges with the value of 1 for discharges with no charges (\$0). These records include live donors and courtesy or research patients. Values of 1 were verified with the hospital by the source.

Prior to 1995, total charges were set to missing (TOTCHG and TOTCHG_X = .) for these records during HCUP processing. Beginning in 1995, only TOTCHG was set to missing (.) and TOTCHG X retained the value of 1.

Colorado

According to Colorado, hospital based physician fees are excluded from total charges (TOTCHG and TOTCHG_X).

Connecticut

Connecticut includes non-covered charges in the total charges if they are reported by hospitals but, does not report non-covered charges separately. The HCUP uniform total charges (TOTCHG_X) could not be adjusted to exclude non-covered charges. (Non-covered charges include items such as telephone and television).

Iowa

Beginning in 1993, Iowa includes professional fees in its total charges if the hospital combines hospital and professional bills. Professional fees are subtracted from total charges (TOTCHG and TOTCHG_X) during HCUP processing to make Iowa total charges comparable to data from other states.

Prior to 1993, it was optional for hospitals to report total charges to the hospital association:

- The availability of total charges varies by hospital.
- Some hospitals have missing (.) total charges (TOTCHG and TOTCHG X) on a large percentage of records.

Illinois

Due to an error in HCUP processing, a few zero charges occur in the Illinois 1990-1991 HCUP Illinois files. Input values of zero were set to missing (.) before TOTCHG was rounded. If the input charge was between \$0.01 and \$0.49, then the rounded TOTCHG is 0.

Kansas

It was optional for hospitals to provide total charges to the hospital association. Approximately one fifth to one quarter of the discharges are missing total charges.

Some hospitals report total charges of \$1.00 for all discharges. For 1993-1994, the \$1.00 charges are included in the HCUP data. Beginning with 1995, total charges of \$1.00 in the Kansas inpatient data were set to missing (.).

Massachusetts

Massachusetts included professional fees in its detailed and total charges, if these were included by the hospital. Hospitals are allowed, though not required, to report these professional fees in the charge fields. Individual facilities decide which professional fees are included and where. There is no way to determine which hospitals did or did not include professional fees.

Maine

Professional charges were subtracted from the supplied total charge during HCUP processing to make Maine total charges (TOTCHG_X) comparable to data from other states.

Maryland

Maryland excluded the following from total charges:

- Physician charges and
- Charges not regulated by the Health Services Cost Review Commission (for example, telephone service, television charges or private duty nursing charges).

Missouri

According to the Missouri Hospital Association, most hospitals excluded professional fees from total charges (TOTCHG and TOTCHG_X).

New York

For the 1988-1993 HCUP files, New York supplied their Master File which consists of Discharge Data Abstracts (DDA) matched to Uniform Billing Forms (UBF) for inpatient stays. Information on total charges is included in the UBF part of the record. Due to an administrative change in the collection of billing records for 1989, a large percentage of the DDAs could not be matched to a UBF. When there was no match, charge information is missing. The match rate improves over time and stabilizes after 1991. The percentage of DDA records that have a matching UBF record in the Master File are as follows:

1988	77.2%
1989	26.3%
1990	62.8%
1991	93.7%
1992	91.8%

1993	95.5%.

Beginning in the 1994 data, hospitals submitted discharge records to New York in a new format, using Universal Data Set (UDS) specifications. This format combines the old UBF and DDA data into a single submission record.

Adjustment to Charges for Interim Bills

- For 1988-1993, when the length of stay from the Discharge Data Abstract did not equal the length of the billing period from the Uniform Billing Form, total charges (TOTCHG) were set to missing (.) because this billing information pertained only to the billing period, not the complete inpatient stay. However, TOTCHG_X contains the original value from the billing record.
- Beginning in 1994, billing dates were not reported by New York and the adjustment to charge details (CHGn, RATEn, UNITn, REVCDn) was not made.

Oregon

Kaiser hospitals are exempt from reporting total charges. As a result, TOTCHG and TOTCHG_X are missing (.) for Kaiser hospitals in Oregon.

Beginning in the 1995 data, some hospitals did not report total charges (TOTCHG and TOTCHG_X) on charity bills since there are no charges to the patient.

Pennsylvania

Prior to 1997, non-covered charges and professional charges were subtracted from the supplied total charge during HCUP processing to make Pennsylvania total charges (TOTCHG X) comparable to data from other states.

Beginning in 1997, Pennsylvania supplied total charges that did not include non-covered and professional charges.

South Carolina

Beginning in 1996, professional fees and charges for patient convenience items were subtracted from the reported total charges during HCUP processing to make South Carolina total charges (TOTCHG and TOTCHG_X) comparable to data from other states.

Prior to 1996, only professional fees were subtracted from the reported total charges because the source did not supply an itemized charge for patient convenience items.

Tennessee

Prior to 1998 data, negative total charges were erroneously set to invalid (.A). Beginning in 1998, negative total charges are retained in TOTCHG_X and set to inconsistent (.C) in TOTCHG.

Texas

Total charges are not available in the Texas data until July 2000. Non-covered accommodation and ancillary charges were subtracted from the supplied total charge during HCUP processing to make Texas total charges (TOTCHG_X) comparable to data from other states.

Virginia

The maximum value allowed for total charges in the Virginia source files is \$9,999,999.

Wisconsin

Wisconsin may have included professional fees and convenience items in its total charges. Hospitals are instructed to remove these fees from total charges, but some hospitals do not subtract them and others have had difficulties with their accounting software. There is no way to determine which hospitals did or did not include these items.

Hospitals are not required to report total charges for stays over 100 days.

Wisconsin

An error during HCUP processing of 1993 discharges caused negative values of total charges (TOTCHG_X) to be set to missing (.) instead of retained as reported by the data source. For other years, negative values of TOTCHG_X were processed correctly.

West Virginia

West Virginia has rate setting. The data source confirms that the all covered charges are included in the total charge (TOTCHG_X).

YEAR - Calendar year

General Notes

The discharge year (YEAR) is <u>always</u> coded. In the 1988-1997 HCUP databases, YEAR is two-digits (e.g., if the discharge year is 1990, then YEAR = 90). Beginning in the 1998 HCUP databases, YEAR is four-digits (e.g., 1998).

Uniform Values			
Variable	Description	Value	Value Description
YEAR	Calendar year	уу	2-digit calendar year in 1988-1997 data
		уууу	4-digit calendar year beginning with 1998 data

State Specific Notes
State Specific Notes

None

ZIPINC - Median household income for patient's zip code

General Notes

This is a categorical variable indicating the median household income of the patient's zip code of residence. The median income values are 1999 estimates derived from projections from 1990 Census values for block groups. The categories are defined so that the maximum for category 1 (\$25,000) is approximately 150% of the 1999 poverty level and the boundary between the second and third categories (\$35,000) is approximately the national median household income.

To protect patient confidentiality, precautions are taken to mask zip codes with unique ZIPINC values within a state. When only one ZIP code was represented in a particular category in ZIPINC for a state, ZIPINC was set to missing.

ZIPINC is missing (.) when the patient's ZIP code was missing, did not exist in 1999, was invalid in 1999, or outside of the United States.

Uniform Values			
Variable	Description	Value	Value Description
ZIPINC	Median household income for patient's zip code	1	\$1-24,999
		2	\$25,000-34,999
		3	\$35,000-44,999
		4	45,000 or more
			Missing

State Specific Notes

None