

2009 NIS Processing Logistics

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Introduction

The goal of this task is to create and deliver the following 2009 NIS database files and documentation on schedule and on budget. The deliverable dates depend on when the New York data is ready.

Deliverable Number	Deliverable Description	Deliverable Due Date	Early Deliverable Date
41.05	2009 NIS Verification of Restrictions Memorandum	6/30/2011	5/27/2011
None	Send a copy of the SAS public version of the NIS to SSS for HCUPnet processing.	6/30/2011	5/27/2011
42.05	2009 NIS Database, Documentation, and Tools for External Release in ASCII (SAS Version also Provided for Internal AHRQ Use)	6/30/2011	6/17/2011
43.05	2009 NIS Database for Intramural Use Only, Including Data Development Variables and Documentation	6/30/2011	6/17/2011
44.05	2009 NIS Processing Programs	6/30/2011	6/24/2011

We should use existing NIS programs whenever possible, making only necessary revisions.

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Processing Steps

S1) Select the NIS Sample

In order to start the NIS sampling, all crosswalks of DSHOSPID to HOSPID must be complete, and the NIS sampling restrictions from the MOAs must be final.

1. Identify the universe of American Hospital Association (AHA) community, non-rehabilitation hospitals.
2. Identify the sampling frame of AHA community, non-rehabilitation hospitals in the SID.
3. Apply state-specific restrictions to the sampling frame.
4. Send AHRQ a memo and supporting listings to document that sampling restrictions listed in Appendix F have been upheld. AHRQ must approve before delivery of the NIS.
5. For descriptions of the programs, see the NIS Program Catalog; ~~\\Thuscasanapp25\LUN0\NIS\yyyy\NIS_yyyy_Programs_Catalog.xls, where yyyy is the data year.~~

S2) Create the Hospital Weights File

In order to develop the NIS weights, the SID processing must be complete, and the NIS data element restrictions from the MOAs must be final.

1. Create the NIS Hospital SAS file containing hospital and discharge weights calculated using AHA survey data and SID discharge counts adjusted for missing quarters of data.
2. Sort the file by HOSPID and YEAR and include strata, weights, and two versions of the AHA hospital identifier data elements. See Appendix B for a list of data elements.
3. Create the NIS_YYYY_HOSPITAL_Internal.SAS7BDAT Intramural File without restrictions on the data elements.
4. Prepare the hospital structural characteristics and provision of outpatient services data elements for release (A07A.SAS, A07B.SAS).
 - a. During AHA processing, HOSP_RNPCT and HOSP_OP SURGPCT are rounded to the nearest integer value, and HOSP_RNFTEAPD, HOSP_LPNFTEAPD and HOSP_NAFTEAPD are rounded to the nearest tenth.
 - b. For states that do not allow identification of hospitals, set outlier values outside the following ranges to missing:

Data element	Description	Minimum value	Maximum value
HOSP_RNFTEAPD	RN FTEs per 1000 adjusted patient days	0.1	10.9
HOSP_LPNFTEAPD	LPN FTEs per 1000 adjusted patient days	0	3.9
HOSP_NAFTEAPD	Nurse aides per 1000 adjusted patient days	0	3.9
HOSP_RNPCT	Percentage of RN among licensed nurses	20	100
HOSP_OP SURGPCT	Percentage of all surgeries performed in outpatient setting	0	100

- c. For states that do not allow identification of hospitals, first set the following NIS strata data elements to missing when there is only one hospital within the state in a cell defined by HOSP_CONTROL, H_CONTRL, HOSP_BEDSIZE, HOSP_LOCATION, and HOSP_TEACH:

HOSP_CONTROL
 H_CONTRL
 HOSP_LOCATION
 HOSP_TEACH

HOSP_BEDSIZE
HOSP_LOCTEACH

- d. Then set the following multi-hospital system (MHS) data elements to missing when there is only one hospital within the state in a cell defined by HOSP_CONTROL, H_CONTRL, HOSP_BEDSIZE, HOSP_LOCATION, HOSP_TEACH, HOSP_MHSMEMBER, and HOSP_MHSCLUSTER:

HOSP_MHSMEMBER
HOSP_MHSCLUSTER

- e. If there is only one hospital in the state that has a value of HOSP_OPSURGPCT in the range of 0-5, set HOSP_OPSURGPCT to missing for that hospital.
- f. Perturb the values for the following data elements by randomly adding values in the ranges listed below:

Data element	Perturbing logistic
HOSP_RNFTEAPD	+/- 10% with a minimum of +/- 0.1
HOSP_LPNFTEAPD	+/- 10% with a minimum of +/- 0.1
HOSP_NAFTEAPD	+/- 10% with a minimum of +/- 0.1
HOSP_OPSURGPCT	+/- 1, 2 or 3.

Recalculate HOSP_RNPCT using the perturbed values of RNFTEAPD and LPNFTEAPD.

If necessary, adjust the perturbed values to ensure that they are within the following ranges:

Data element	Minimum value	Maximum value
HOSP_RNFTEAPD	0.1	10.9
HOSP_LPNFTEAPD	0	3.9
HOSP_NAFTEAPD	0	3.9
HOSP_RNPCT	20	100
HOSP_OPSURGPCT	0	100

5. Apply the state-specific data element restrictions listed in Appendix F to the NIS_YYYY_HOSPITAL.SAS7BDAT File.
6. Send AHRQ a memo and supporting listings to document that data element restrictions listed in Appendix F have been upheld. AHRQ must approve before delivery of the NIS.
7. Create the NIS_YYYY_HOSPITAL.ASCII (YYYY is the data year) Hospital Weight File for the Central Distributor.
8. For descriptions of the programs, see the NIS Program Catalog; ~~\\Thuscasanapp25\LUN0\NIS\YYYY\NIS_YYYY_Programs_Catalog.xls, where YYYY is the data year.~~

S3) Create Deliverable NIS Core Files.

1. Update the NIS DDev SAS keys in the \\Thuscasanapp25\LUN0\NIS\yyyy\INCLUDE\LIBRARIES.SAS file.
2. Merge all the SID files with the NIS Hospital File, keeping records for sampled hospitals to create the NIS patient files. Include the following 44 states for 2009: AR, AZ, CA, CO, CT, FL, GA, HI, IA, IL, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MT, NC, NE, NH, NM, NJ, NV, NY, OH, OK, OR, PA, RI, SC, SD, TN, TX, UT, VA, VT, WA, WI, WV, WY. (Montana and New Mexico are new for 2009.)
3. Beginning with the 2002 NIS, create a NIS-only data element called ELECTIVE. For all states except California, set ELECTIVE = 1 when ATYPE = 3 (elective). For California, set ELECTIVE = ASCHED.
4. Assign median income quartile value (ZIPINC_QRTL) from patient's Zip Code (ZIP) using SAS format from S2.
5. Create the NIS_yyyy_CORE1_Internal.SAS7BDAT, NIS_yyyy_CORE2_Internal.SAS7BDAT and NIS_yyyy_DDev_Internal.SAS7BDAT (yyyy = 4-digit year) Intramural Files without restrictions on the data elements. Include all standard NIS Core File data elements in the NIS_yyyy_CORE1_Internal.SAS7BDAT File. Include HOSPID, KEY and all remaining SID Core File data elements in the NIS_yyyy_CORE2_Internal.SAS7BDAT File. If the Core2 file gets too big, set a threshold for how many states would need to contribute a data element in order for it to be included. For example, we could say that at least 10 states would have to contribute the data element in order for it to be included in the Core2 file. For the 2007 NIS, we agreed to limit the number of secondary diagnoses and procedures and associated data elements in the Core2 file to 31 because two states had 60 or more diagnoses, but no other states had more than 31 diagnoses. Include HOSPID, KEY and all SID Data Development data elements in the NIS_yyyy_DDev_Internal.SAS7BDAT File.
6. Apply state-specific restrictions to the NIS_yyyy_CORE.SAS7BDAT (yyyy = 4-digit year) SAS file. See Appendix F for details.
7. Send AHRQ a memo and supporting listings to document that data element restrictions listed in Appendix F have been upheld. AHRQ must approve before delivery of the NIS.
8. Sort the files by HOSPID and KEY. Keep only Core data elements listed in Appendix C in the Core and Core1 Files. Keep a maximum of 25 diagnoses and 15 procedures. We will increase from 15 to 25 diagnoses for the 2009 NIS because over 8% of the records have more than 15 diagnoses, but only .4% of the records have more than 25 diagnoses.
9. Merge the ss_NIS_yyyy_EDITS_SUBSET.SAS7BDAT SAS edit check files to create the NIS_yyyy_EDITS.SAS7BDAT SAS file for the NIS Data Quality Report.

10. Compress the NIS_yyyy_CORE1_Internal.SAS7BDAT, NIS_yyyy_CORE2_Internal.SAS7BDAT, NIS_yyyy_DDev_Internal.SAS7BDAT, and NIS_yyyy_CORE.SAS7BDAT SAS files for delivery to AHRQ.
 11. Create and compress the NIS_yyyy_CORE.ASCII file for the Central Distributor.
 12. For descriptions of the programs, see the NIS Program Catalog, \\Thuscasanapp25\LUN0\NIS\yyyy\NIS_yyyy_Programs_Catalog.xls, where yyyy is the data year.
- S4) Create Deliverable NIS Severity Adjustment Files.
1. Create the NIS_yyyy_SEVERITY.SAS7BDAT (yyyy = 4-digit year) SAS file.
 2. Compress the NIS Severity Adjustment SAS file for delivery to AHRQ.
 3. Create and compress the NIS_yyyy_SEVERITY.ASCII File for the Central Distributor.
- S5) Create Deliverable NIS Diagnosis and Procedure Groups Files.
1. Create the NIS_yyyy_DX_PR_GRPS.SAS7BDAT File (yyyy = 4-digit year) SAS file.
 2. Compress the NIS Diagnosis and Procedure Groups SAS file for delivery to AHRQ.
 3. Create and compress the NIS_yyyy_DX_PR_GRPS.ASCII File for the Central Distributor.
- S6) As soon as it is ready, send a copy of the SAS public version of the NIS to SSS for HCUPnet processing.

Appendix A: Data Elements in the NIS Hospital-level Weight File (NIS_yyyy_HOSPITAL)

Please verify each year that this list matches the Master HCUP Memorandum of Agreement (MOA) NIS Data Element List.

IDENTIFIERS

<u>Name</u>	<u>Type</u>	<u>Length</u>	<u>Label</u>
AHAID	Char	7	AHA hospital identifier with the leading 6
HFIPSSTCO	Num	4	Hospital FIPS state/county code
HOSPID	Num	4	HCUP hospital identification number
HOSPADDR	Char	60	Hospital address from AHA Survey (Z011)
HOSPCITY	Char	20	Hospital city from AHA Survey (Z012)
HOSPNAME	Char	90	Hospital name from AHA Survey (Z000)
HOSPST	Char	2	Hospital state postal code
HOSPSTCO	Num	4	Hospital modified FIPS state/county code
HOSPZIP	Char	5	Hospital ZIP Code from AHA Survey (Z014)
IDNUMBER	Char	6	AHA hospital identifier without the leading 6
YEAR	Num	3	Calendar year

STRATA

Beginning with the 1998 NIS, new definitions are being used for some of the strata data elements, and the strata data elements were renamed. The new names are shown below.

<u>Name</u>	<u>Type</u>	<u>Length</u>	<u>Label</u>
NIS_STRATUM	Num	3	Stratum used to sample hospital

Defined by the following strata:

- | | |
|----------------------|---|
| 1) Geographic region | Northeast (1)
Midwest (2)
South (3)
West (4) |
| 2) Control | Government or private (collapsed category) (0)
Government, nonfederal (public) (1)
Private, not-for-profit (voluntary) (2)
Private, investor-owned (proprietary) (3)
Private (collapsed category) (4) |
| 3) Location/Teaching | Rural (1)
Urban nonteaching (2)
Urban teaching (3) |
| 4) Bedsize | Small (1)
Medium (2)
Large (3) |

H_CONTRL	Num	3	Control/ownership of hospital <i>1 = Government, nonfederal (public)</i> <i>2 = Private, not-for-profit (voluntary)</i> <i>3 = Private, investor-owned (proprietary)</i> <i>. = Missing</i>
HOSP_BEDSIZE	Num	3	Bed size of hospital (STRATA) <i>1 = Small</i> <i>2 = Medium</i> <i>3 = Large</i> <i>. = Missing</i>
HOSP_CONTROL	Num	3	Control/ownership of hospital (STRATA) <i>0 = Government or private (collapsed category)</i> <i>1 = Government, nonfederal (public)</i> <i>2 = Private, not-for-profit (voluntary)</i> <i>3 = Private, investor-owned (proprietary)</i> <i>4 = Private (collapsed category)</i> <i>. = Missing</i>
HOSP_REGION	Num	3	Region of hospital (STRATA) <i>1 = Northeast</i> <i>2 = Midwest</i> <i>3 = South</i> <i>4 = West</i>
HOSP_LOCTEACH	Num	3	Location/teaching status of hospital (STRATA) <i>1 = Rural</i> <i>2 = Urban nonteach</i> <i>3 = Urban teaching</i> <i>. = Missing</i>
HOSP_LOCATION	Num	3	Location (urban/rural) of hospital <i>0 = Rural</i> <i>1 = Urban</i> <i>. = Missing</i>
HOSP_TEACH	Num	3	Teaching status of hospital <i>0 = Nonteaching</i> <i>1 = Teaching</i> <i>. = Missing</i>

HOSPITAL STRUCTURAL CHARACTERISTICS AND PROVISION OF OUTPATIENT SERVICES

<u>Name</u>	<u>Type</u>	<u>Length</u>	<u>Label</u>
*HOSP_MHSMEMBER	Num	3	Hospital is part of multiple hospital system-H
*HOSP_MHSCLUSTER	Num	3	AHA multiple hospital system cluster code-H
*HOSP_RNPCT	Num	3	Percentage of RNs among licensed nurses-H
*HOSP_RNFTEAPD	Num	4	RN FTEs per 1000 adjusted patient days-H
*HOSP_LPNFTEAPD	Num	4	LPN FTEs per 1000 adjusted patient days-H
*HOSP_NAFTEAPD	Num	4	Nurse aides per 1000 adjusted patient days-H
*HOSP_OPSURGPCT	Num	3	Percentage of all surgeries performed in outpatient setting

WEIGHTS

<u>Name</u>	<u>Type</u>	<u>Length</u>	<u>Label</u>
DISCWT	Num	8	Weight to discharges in AHA universe
HOSPWT	Num	8	Weight to hospitals in AHA universe
N_DISC_U	Num	5	Number of AHA universe discharges in NIS_STRATUM
N_HOSP_U	Num	3	Number of AHA universe hospitals in NIS_STRATUM
S_DISC_U	Num	4	Number of sample discharges in NIS_STRATUM
S_HOSP_U	Num	3	Number of sample hospitals in NIS_STRATUM
TOTAL_DISC	Num	4	Total number of discharges from this hospital in the NIS

NEW DATA ELEMENTS

The following data element was added to the Hospital file beginning with the 2002 NIS:

<u>Name</u>	<u>Type</u>	<u>Length</u>	<u>Label</u>
HOSPSTCO	Num	4	Hospital modified FIPS state/county code

The following data element was added to the Hospital file beginning with the 2004 NIS:

<u>Name</u>	<u>Type</u>	<u>Length</u>	<u>Label</u>
HFIPSSCO	Num	4	Hospital FIPS state/county code

The following data elements were added to the Hospital file beginning with the 2007 NIS:

<u>Name</u>	<u>Type</u>	<u>Length</u>	<u>Label</u>
HOSP_MHSMEMBER	Num	3	Hospital is part of multiple hospital system
HOSP_MHSCLUSTER	Num	3	AHA multiple hospital system cluster code
HOSP_RNPCT	Num	3	Percentage of RNs among licensed nurses
HOSP_RNFTEAPD	Num	4	RN FTEs per 1000 adjusted patient days
HOSP_LPNFTEAPD	Num	4	LPN FTEs per 1000 adjusted patient days
HOSP_NAFTEAPD	Num	4	Nurse aides per 1000 adjusted patient days
HOSP_OPSURGPCT	Num	3	Percentage of all surgeries performed in outpatient setting

The following data element was restored to the Hospital file beginning with the 2008 NIS:

<u>Name</u>	<u>Type</u>	<u>Length</u>	<u>Label</u>
H_CONTRL	Num	3	Control/ownership of hospital

RENAMED DATA ELEMENTS

The following data elements were renamed beginning with the 1993 NIS:

<u>New 1993 Name</u>	<u>Pre-1993 Name</u>
H_LOCTCH	LOCTEACH
H_BEDSZ	ST_BEDSZ
H_CONTRL	ST_OWNER
H_REGION	ST_REG

The following data elements were renamed beginning with the 1998 NIS:

<u>New 1998 Name</u>	<u>Pre-1998 Name</u>
NIS_STRATUM	STRATUM
HOSP_BEDSIZE	H_BEDSZ
HOSP_REGION	H_REGION
HOSP_LOCTEACH	H_LOCTCH
HOSP_LOCATION	H_LOC
HOSP_TEACH	H_TCH
DISCWT	DISCWT_U
HOSPWT	HOSPWT_U
TOTAL_DISC	TOTDSCHG.

DISCONTINUED DATA ELEMENTS

Beginning with the 1998 NIS, State and Frame weights will not be included, so the following data elements will no longer be in the hospital file:

<u>Name</u>	<u>Type</u>	<u>Length</u>	<u>Label</u>
STRAT_ST	Num	8	H:Stratum for state-specific weights
DISCWT_F	Num	8	H:Weight to dschgs in the frame states
DISCWT_S	Num	8	H:Weight to discharges in state
HOSPWT_F	Num	8	H:Weight to hosps in the frame states
HOSPWT_S	Num	8	H:Weight to hosps in the state
N_DISC_F	Num	8	H:Number of frame state discharges in STRATUM
N_DISC_S	Num	8	H:Num. state's discharges in STRAT_ST
N_HOSP_F	Num	8	H:Number of frame state hospitals in STRATUM
N_HOSP_S	Num	8	H:Num. state's hospitals in STRAT_ST
S_DISC_S	Num	8	H:Num. sample discharges in STRAT_ST
S_HOSP_S	Num	8	H:Num. sample hospitals in STRAT_ST

The following data element was dropped from the 1998-2007 NIS files.

H_CONTRL	Num	3	Control/ownership of hospital
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The following data element was only used for 2000:

DISCWTCHARGE	Num	8	Weight to discharges in AHA universe for total charge estimates
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Appendix B: Data Elements in NIS Core Files

Please verify each year that this list matches the Master HCUP Memorandum of Agreement (MOA) NIS Data Element List.

<u>Name</u>	<u>Type</u>	<u>Length</u>	<u>Label</u>
AGE	NUM	3	Age in years at admission
AGEDAY	NUM	3	Age in days (when age < 1 year)
AMONTH	NUM	3	Admission month
ASOURCE	NUM	3	Admission source (uniform)
ASOURCEUB92	CHAR	1	Admission source (UB-92 standard coding)
ASOURCE_X	CHAR	varies	Admission source (as received from source)
ATYPE	NUM	3	Admission type
AWEEKEND	NUM	3	Admission day is a weekend
DIED	NUM	3	Died during hospitalization
DISCWT	NUM	8	Weight to discharges in AHA universe
DISPUB04	NUM	3	Disposition of patient (UB-04 standard coding)
DISPUniform	NUM	3	Disposition of patient (uniform)
DQTR	NUM	3	Discharge quarter
DQTR_X	NUM	3	Discharge quarter (as received from source)
DRG	NUM	3	DRG in effect on discharge date
DRG24	NUM	3	DRG, version 24
DRG_NoPOA	NUM	3	DRG in use on discharge date, calculated without POA
DRGVER	NUM	3	DRG grouper version used on discharge date
DSHOSPID	CHAR	17	Data source hospital identifier
DX1	CHAR	5	Principal diagnosis
DX2	CHAR	5	Diagnosis 2
DX3	CHAR	5	Diagnosis 3
DX4	CHAR	5	Diagnosis 4
DX5	CHAR	5	Diagnosis 5
DX6	CHAR	5	Diagnosis 6
DX7	CHAR	5	Diagnosis 7
DX8	CHAR	5	Diagnosis 8
DX9	CHAR	5	Diagnosis 9
DX10	CHAR	5	Diagnosis 10
DX11	CHAR	5	Diagnosis 11
DX12	CHAR	5	Diagnosis 12
DX13	CHAR	5	Diagnosis 13
DX14	CHAR	5	Diagnosis 14
DX15	CHAR	5	Diagnosis 15
DX16	CHAR	5	Diagnosis 16
DX17	CHAR	5	Diagnosis 17
DX18	CHAR	5	Diagnosis 18
DX19	CHAR	5	Diagnosis 19
DX20	CHAR	5	Diagnosis 20
DX21	CHAR	5	Diagnosis 21
DX22	CHAR	5	Diagnosis 22
DX23	CHAR	5	Diagnosis 23
DX24	CHAR	5	Diagnosis 24
DX25	CHAR	5	Diagnosis 25
DXCCS1	NUM	3	CCS: principal diagnosis

DXCCS2	NUM	3	CCS: diagnosis 2
DXCCS3	NUM	3	CCS: diagnosis 3
DXCCS4	NUM	3	CCS: diagnosis 4
DXCCS5	NUM	3	CCS: diagnosis 5
DXCCS6	NUM	3	CCS: diagnosis 6
DXCCS7	NUM	3	CCS: diagnosis 7
DXCCS8	NUM	3	CCS: diagnosis 8
DXCCS9	NUM	3	CCS: diagnosis 9
DXCCS10	NUM	3	CCS: diagnosis 10
DXCCS11	NUM	3	CCS: diagnosis 11
DXCCS12	NUM	3	CCS: diagnosis 12
DXCCS13	NUM	3	CCS: diagnosis 13
DXCCS14	NUM	3	CCS: diagnosis 14
DXCCS15	NUM	3	CCS: diagnosis 15
DXCCS16	NUM	3	CCS: diagnosis 16
DXCCS17	NUM	3	CCS: diagnosis 17
DXCCS18	NUM	3	CCS: diagnosis 18
DXCCS19	NUM	3	CCS: diagnosis 19
DXCCS20	NUM	3	CCS: diagnosis 20
DXCCS21	NUM	3	CCS: diagnosis 21
DXCCS22	NUM	3	CCS: diagnosis 22
DXCCS23	NUM	3	CCS: diagnosis 23
DXCCS24	NUM	3	CCS: diagnosis 24
DXCCS25	NUM	3	CCS: diagnosis 25
ECODE1	CHAR	5	E code 1
ECODE2	CHAR	5	E code 2
ECODE3	CHAR	5	E code 3
ECODE4	CHAR	5	E code 4
ELECTIVE	NUM	3	Elective versus non-elective admission
E_CCS1	NUM	3	CCS: E code 1
E_CCS2	NUM	3	CCS: E code 2
E_CCS3	NUM	3	CCS: E code 3
E_CCS4	NUM	3	CCS: E code 4
FEMALE	NUM	3	Indicator of sex
HCUP_ED	NUM	3	HCUP Emergency Department service indicator
HOSPBIRTH	NUM	3	Birth diagnosis, in this hospital
HOSPID	NUM	4	HCUP hospital identification number
HOSPST	CHAR	2	Hospital state postal code
KEY	NUM	8	HCUP record identifier
LOS	NUM	4	Length of stay (cleaned)
LOS_X	NUM	4	Length of stay (as received from source)
MDC	NUM	3	MDC in effect on discharge date
MDC24	NUM	3	MDC, version 24
*MDC_NoPOA	NUM	3	MDC in use on discharge date, calculated without POA
MDNUM1_R	NUM	5	Physician 1 number (re-identified)
MDNUM2_R	NUM	5	Physician 2 number (re-identified)
NCHRONIC	NUM	3	Number of chronic conditions
NDX	NUM	3	Number of diagnoses on this record
NECODE	NUM	3	Number of E codes on this record
NEOMAT	NUM	3	Neonatal and/or maternal DX and/or PR
NIS_STRATUM	NUM	3	Stratum used to sample hospital
NPR	NUM	3	Number of procedures on this record
ORPROC	NUM	3	Major operating room procedure indicator

PAY1	NUM	3	Primary expected payer (uniform)
PAY2	NUM	3	Secondary expected payer (uniform)
PAY1_X	CHAR	varies	Primary expected payer (as received from source)
PAY2_X	CHAR	varies	Secondary expected payer (as received from source)
PL_NCHS2006	NUM	3	Patient Location: NCHS Urban-Rural Code (V2006)
PointOfOriginUB04	CHAR	1	Point of origin for admission or visit, UB-04 standard coding
PointOfOrigin_X	CHAR	varies	Point of origin for admission or visit, as received from source
PR1	CHAR	4	Principal procedure
PR2	CHAR	4	Procedure 2
PR3	CHAR	4	Procedure 3
PR4	CHAR	4	Procedure 4
PR5	CHAR	4	Procedure 5
PR6	CHAR	4	Procedure 6
PR7	CHAR	4	Procedure 7
PR8	CHAR	4	Procedure 8
PR9	CHAR	4	Procedure 9
PR10	CHAR	4	Procedure 10
PR11	CHAR	4	Procedure 11
PR12	CHAR	4	Procedure 12
PR13	CHAR	4	Procedure 13
PR14	CHAR	4	Procedure 14
PR15	CHAR	4	Procedure 15
PRCCS1	NUM	3	CCS: principal procedure
PRCCS2	NUM	3	CCS: procedure 2
PRCCS3	NUM	3	CCS: procedure 3
PRCCS4	NUM	3	CCS: procedure 4
PRCCS5	NUM	3	CCS: procedure 5
PRCCS6	NUM	3	CCS: procedure 6
PRCCS7	NUM	3	CCS: procedure 7
PRCCS8	NUM	3	CCS: procedure 8
PRCCS9	NUM	3	CCS: procedure 9
PRCCS10	NUM	3	CCS: procedure 10
PRCCS11	NUM	3	CCS: procedure 11
PRCCS12	NUM	3	CCS: procedure 12
PRCCS13	NUM	3	CCS: procedure 13
PRCCS14	NUM	3	CCS: procedure 14
PRCCS15	NUM	3	CCS: procedure 15
PRDAY1	NUM	4	Number of days from admission to PR1
PRDAY2	NUM	4	Number of days from admission to PR2
PRDAY3	NUM	4	Number of days from admission to PR3
PRDAY4	NUM	4	Number of days from admission to PR4
PRDAY5	NUM	4	Number of days from admission to PR5
PRDAY6	NUM	4	Number of days from admission to PR6
PRDAY7	NUM	4	Number of days from admission to PR7
PRDAY8	NUM	4	Number of days from admission to PR8
PRDAY9	NUM	4	Number of days from admission to PR9
PRDAY10	NUM	4	Number of days from admission to PR10
PRDAY11	NUM	4	Number of days from admission to PR11
PRDAY12	NUM	4	Number of days from admission to PR12
PRDAY13	NUM	4	Number of days from admission to PR13
PRDAY14	NUM	4	Number of days from admission to PR14

PRDAY15	NUM	4	Number of days from admission to PR15
RACE	NUM	3	Race (uniform)
TOTCHG	NUM	6	Total charges (cleaned)
TOTCHG_X	NUM	7	Total charges (as received from source)
TRAN_IN	NUM	3	Transfer in indicator
YEAR	NUM	3	Calendar year
ZIPINC_Qrtl	NUM	3	Median household income national quartile for patient ZIP Code

NEW DATA ELEMENTS

<u>Name</u>	<u>Label</u>	<u>Added to NIS</u>
NIS_STRATUM	Stratum used to sample hospital	2000
ELECTIVE	Elective versus non-elective admission	2002
ASOURCEUB92	Admission source (UB-92 standard coding)	2003
ECODE1	E code 1	2003
ECODE2	E code 2	2003
ECODE3	E code 3	2003
ECODE4	E code 4	2003
E_CCS1	CCS: E code 1	2003
E_CCS2	CCS: E code 2	2003
E_CCS3	CCS: E code 3	2003
E_CCS4	CCS: E code 4	2003
NECODE	Number of E codes on this record	2003
ZIPINC_Qrtl	Median household income quartiles for patient's ZIP Code	2003
DQTR_X	Discharge quarter (as received from source)	2006
DRG24	DRG, version 24	2006
MDC24	MDC, version 24	2006
HOSPBIRTH	Birth diagnosis, in this hospital	2006
HCUP_ED	HCUP Emergency Department service indicator	2007
PL_NCHS2006	Patient Location: NCHS Urban-Rural Code (V2006)	2007
PointOfOriginUB04	Point of origin for admission or visit, UB-04 standard coding	2007
PointOfOrigin_X	Point of origin for admission or visit, as received from source	2007
DRG_NoPOA	DRG in use on discharge date, calculated without POA	2008
NCHRONIC	Number of chronic conditions	2008
ORPROC	Major operating room procedure indicator	2008
TRAN_IN	Transfer In Indicator	2008
MDC_NoPOA	MDC in use on discharge date, calculated without POA	2009
DX16	Diagnosis 16	2009
DX17	Diagnosis 17	2009
DX18	Diagnosis 18	2009
DX19	Diagnosis 19	2009
DX20	Diagnosis 20	2009
DX21	Diagnosis 21	2009
DX22	Diagnosis 22	2009
DX23	Diagnosis 23	2009
DX24	Diagnosis 24	2009
DX25	Diagnosis 25	2009
DXCCS16	CCS: diagnosis 16	2009
DXCCS17	CCS: diagnosis 17	2009
DXCCS18	CCS: diagnosis 18	2009

DXCCS19	CCS: diagnosis 19	2009
DXCCS20	CCS: diagnosis 20	2009
DXCCS21	CCS: diagnosis 21	2009
DXCCS22	CCS: diagnosis 22	2009
DXCCS23	CCS: diagnosis 23	2009
DXCCS24	CCS: diagnosis 24	2009
DXCCS25	CCS: diagnosis 25	2009

Plan to add the following data elements in the future:

* DXPOA1	CHAR 1	Diagnosis 1, present on admission indicator
* DXPOA2	CHAR 1	Diagnosis 2, present on admission indicator
* DXPOA3	CHAR 1	Diagnosis 3, present on admission indicator
* DXPOA4	CHAR 1	Diagnosis 4, present on admission indicator
* DXPOA5	CHAR 1	Diagnosis 5, present on admission indicator
* DXPOA6	CHAR 1	Diagnosis 6, present on admission indicator
* DXPOA7	CHAR 1	Diagnosis 7, present on admission indicator
* DXPOA8	CHAR 1	Diagnosis 8, present on admission indicator
* DXPOA9	CHAR 1	Diagnosis 9, present on admission indicator
* DXPOA10	CHAR 1	Diagnosis 10, present on admission indicator
* DXPOA11	CHAR 1	Diagnosis 11, present on admission indicator
* DXPOA12	CHAR 1	Diagnosis 12, present on admission indicator
* DXPOA13	CHAR 1	Diagnosis 13, present on admission indicator
* DXPOA14	CHAR 1	Diagnosis 14, present on admission indicator
* DXPOA15	CHAR 1	Diagnosis 15, present on admission indicator
* DXPOA16	CHAR 1	Diagnosis 16, present on admission indicator
* DXPOA17	CHAR 1	Diagnosis 17, present on admission indicator
* DXPOA18	CHAR 1	Diagnosis 18, present on admission indicator
* DXPOA19	CHAR 1	Diagnosis 19, present on admission indicator
* DXPOA20	CHAR 1	Diagnosis 20, present on admission indicator
* DXPOA21	CHAR 1	Diagnosis 21, present on admission indicator
* DXPOA22	CHAR 1	Diagnosis 22, present on admission indicator
* DXPOA23	CHAR 1	Diagnosis 23, present on admission indicator
* DXPOA24	CHAR 1	Diagnosis 24, present on admission indicator
* DXPOA25	CHAR 1	Diagnosis 25, present on admission indicator
* E_POA1	CHAR 1	E Code 1, present on admission indicator
* E_POA2	CHAR 1	E Code 2, present on admission indicator
* E_POA3	CHAR 1	E Code 3, present on admission indicator
* E_POA4	CHAR 1	E Code 4, present on admission indicator

DISCONTINUED DATA ELEMENTS

The following data elements were discontinued beginning with the 2000 NIS:

DRG10	NUM	3	DRG, version 10
MDC10	NUM	3	MDC, version 10

* The following data elements were only used for the 2000 NIS:

DISCWTCHARGE	NUM	8	Weight to discharges in AHA universe for total charge estimates
DISCWTCHARGE10	NUM	8	10% sample weight to discharges in AHA universe for total charge estimates

The following data element was discontinued beginning with the 2003 NIS:

ZIPINC	NUM	3	Median household income category for patient's ZIP Code
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The following data element was kept in only the Hospital File beginning with the 2003 NIS:

HOSPSTCO	NUM	4	Hospital modified FIPS state/county code
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The following data element was discontinued beginning with the 2005 NIS because we discontinued the 10% subsample files:

DISCWT10	NUM	8	10% subsample weight to discharges in AHA universe for estimates other than total charges
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The following data elements were discontinued beginning with the 2006 NIS:

MDC18	NUM	3	MDC, version 18
DRG18	NUM	3	DRG, version 18

The following data element was discontinued beginning with the 2007 NIS:

PL_UR_CAT4	NUM	3	Patient location: Urban-Rural 4 categories
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RENAMED DATA ELEMENTS

The following data elements were renamed beginning with the 2001 NIS:

<u>New 2001 Name</u>	<u>Pre-2001 Name</u>
MDNUM1_S	MDID_S
MDNUM2_S	SURGID_S

<u>New 2003 Name</u>	<u>Pre-2003 Name</u>
MDNUM1_R	MDNUM1_S
MDNUM2_R	MDNUM2_S

The following data element was renamed beginning with the 2007 NIS:

<u>New 2007 Name</u>	<u>Pre-2007 Name</u>
DISPUB04	DISPUB92

Appendix C: Data Elements in NIS Severity Files

<u>Name</u>	<u>Type</u>	<u>Length</u>	<u>Label</u>
APRDRG	NUM	3	All Patient Refined DRG
APRDRG_Risk_Mortality	NUM	3	All Patient Refined DRG: Risk of Mortality Subclass
APRDRG_Severity	NUM	3	All Patient Refined DRG: Severity of Illness Subclass
APSDRG	NUM	4	All-Payer Severity-adjusted DRG
APSDRG_Charge_Weight ¹	NUM	6	All-Payer Severity-adjusted DRG: Charge Weight
APSDRG_LOS_Weight	NUM	6	All-Payer Severity-adjusted DRG: Length of Stay Weight
APSDRG_Mortality_Weight	NUM	6	All-Payer Severity-adjusted DRG: Mortality Weight
CM_AIDS	Num	3	AHRQ comorbidity measure: Acquired immune deficiency syndrome
CM_ALCOHOL	Num	3	AHRQ comorbidity measure: Alcohol abuse
CM_ANEMDEF	Num	3	AHRQ comorbidity measure: Deficiency anemias
CM_ARTH	Num	3	AHRQ comorbidity measure: Rheumatoid arthritis/collagen vascular diseases
CM_BLDLOSS	Num	3	AHRQ comorbidity measure: Chronic blood loss anemia
CM_CHF	Num	3	AHRQ comorbidity measure: Congestive heart failure
CM_CHRNLUNG	Num	3	AHRQ comorbidity measure: Chronic pulmonary disease
CM_COAG	Num	3	AHRQ comorbidity measure: Coagulopathy
CM_DEPRESS	Num	3	AHRQ comorbidity measure: Depression
CM_DM	Num	3	AHRQ comorbidity measure: Diabetes, uncomplicated
CM_DM CX	Num	3	AHRQ comorbidity measure: Diabetes with chronic complications
CM_DRUG	Num	3	AHRQ comorbidity measure: Drug abuse
CM_HTN_C	Num	3	AHRQ comorbidity measure: Hypertension (combine uncomplicated and complicated)
CM_HYPOTHY	Num	3	AHRQ comorbidity measure: Hypothyroidism
CM_LIVER	Num	3	AHRQ comorbidity measure: Liver disease
CM_LYMPH	Num	3	AHRQ comorbidity measure: Lymphoma
CM_LYTES	Num	3	AHRQ comorbidity measure: Fluid and electrolyte disorders
CM_METS	Num	3	AHRQ comorbidity measure: Metastatic cancer
CM_NEURO	Num	3	AHRQ comorbidity measure: Other neurological disorders
CM_OBESE	Num	3	AHRQ comorbidity measure: Obesity
CM_PARA	Num	3	AHRQ comorbidity measure: Paralysis
CM_PERIVASC	Num	3	AHRQ comorbidity measure: Peripheral vascular disorders
CM_PSYCH	Num	3	AHRQ comorbidity measure: Psychoses
CM_PULMCIRC	Num	3	AHRQ comorbidity measure: Pulmonary circulation disorders
CM_RENLFAIL	Num	3	AHRQ comorbidity measure: Renal failure
CM_TUMOR	Num	3	AHRQ comorbidity measure: Solid tumor without metastasis
CM_ULCER	Num	3	AHRQ comorbidity measure: Peptic ulcer disease excluding bleeding
CM_VALVE	Num	3	AHRQ comorbidity measure: Valvular disease
CM_WGHTLOSS	Num	3	AHRQ comorbidity measure: Weight loss
DS_DX_Category1	CHAR	5	Disease Staging: Principal Disease Category

¹ Consider adding APSDRG_Cost_Weight in the future.

DS_Stage1	NUM	5	Disease Staging: Stage of Principal Disease Category
HOSPID	NUM	4	HCUP hospital identification number
KEY	NUM	8	HCUP record identifier

DISCONTINUED DATA ELEMENTS

The following data elements were discontinued beginning with the 2008 NIS:

<u>Name</u>	<u>Type</u>	<u>Length</u>	<u>Label</u>
DS_LOS_Level	NUM	3	Disease Staging: Length of Stay Level
DS_LOS_Scale	NUM	8	Disease Staging: Length of Stay Scale
DS_Mrt_Level	NUM	3	Disease Staging: Mortality Level
DS_Mrt_Scale	NUM	8	Disease Staging: Mortality Scale
DS_RD_Level	NUM	3	Disease Staging: Resource Demand Level
DS_RD_Scale	NUM	8	Disease Staging: Resource Demand Scale

Appendix D: Data Elements in NIS Diagnosis and Procedure Groups (DX_PR_GRP) Files

<u>Name</u>	<u>Type</u>	<u>Length</u>	<u>Label</u>
CHRON1	NUM	3	Chronic condition indicator 1
CHRON2	NUM	3	Chronic condition indicator 2
CHRON3	NUM	3	Chronic condition indicator 3
CHRON4	NUM	3	Chronic condition indicator 4
CHRON5	NUM	3	Chronic condition indicator 5
CHRON6	NUM	3	Chronic condition indicator 6
CHRON7	NUM	3	Chronic condition indicator 7
CHRON8	NUM	3	Chronic condition indicator 8
CHRON9	NUM	3	Chronic condition indicator 9
CHRON10	NUM	3	Chronic condition indicator 10
CHRON11	NUM	3	Chronic condition indicator 11
CHRON12	NUM	3	Chronic condition indicator 12
CHRON13	NUM	3	Chronic condition indicator 13
CHRON14	NUM	3	Chronic condition indicator 14
CHRON15	NUM	3	Chronic condition indicator 15
CHRON16	NUM	3	Chronic condition indicator 16
CHRON17	NUM	3	Chronic condition indicator 17
CHRON18	NUM	3	Chronic condition indicator 18
CHRON19	NUM	3	Chronic condition indicator 19
CHRON20	NUM	3	Chronic condition indicator 20
CHRON21	NUM	3	Chronic condition indicator 21
CHRON22	NUM	3	Chronic condition indicator 22
CHRON23	NUM	3	Chronic condition indicator 23
CHRON24	NUM	3	Chronic condition indicator 24
CHRON25	NUM	3	Chronic condition indicator 25
CHRONB1	NUM	3	Chronic condition body system 1
CHRONB2	NUM	3	Chronic condition body system 2
CHRONB3	NUM	3	Chronic condition body system 3
CHRONB4	NUM	3	Chronic condition body system 4
CHRONB5	NUM	3	Chronic condition body system 5
CHRONB6	NUM	3	Chronic condition body system 6
CHRONB7	NUM	3	Chronic condition body system 7
CHRONB8	NUM	3	Chronic condition body system 8
CHRONB9	NUM	3	Chronic condition body system 9
CHRONB10	NUM	3	Chronic condition body system 10
CHRONB11	NUM	3	Chronic condition body system 11
CHRONB12	NUM	3	Chronic condition body system 12
CHRONB13	NUM	3	Chronic condition body system 13
CHRONB14	NUM	3	Chronic condition body system 14
CHRONB15	NUM	3	Chronic condition body system 15
CHRONB16	NUM	3	Chronic condition body system 16
CHRONB17	NUM	3	Chronic condition body system 17
CHRONB18	NUM	3	Chronic condition body system 18
CHRONB19	NUM	3	Chronic condition body system 19
CHRONB20	NUM	3	Chronic condition body system 20
CHRONB21	NUM	3	Chronic condition body system 21
CHRONB22	NUM	3	Chronic condition body system 22
CHRONB23	NUM	3	Chronic condition body system 23

CHRONB24	NUM	3	Chronic condition body system 24
CHRONB25	NUM	3	Chronic condition body system 25
DXMCCS1	Char	11	Multi-Level CCS: Diagnosis 1
E_MCCS1	Char	11	Multi-Level CCS: E Code 1
PRMCCS1	Char	8	Multi-Level CCS: Procedure 1
HOSPID	NUM	4	HCUP hospital identification number
KEY	NUM	8	HCUP record identifier
PCLASS1	NUM	3	Principal procedure class
PCLASS2	NUM	3	Procedure class 2
PCLASS3	NUM	3	Procedure class 3
PCLASS4	NUM	3	Procedure class 4
PCLASS5	NUM	3	Procedure class 5
PCLASS6	NUM	3	Procedure class 6
PCLASS7	NUM	3	Procedure class 7
PCLASS8	NUM	3	Procedure class 8
PCLASS9	NUM	3	Procedure class 9
PCLASS10	NUM	3	Procedure class 10
PCLASS11	NUM	3	Procedure class 11
PCLASS12	NUM	3	Procedure class 12
PCLASS13	NUM	3	Procedure class 13
PCLASS14	NUM	3	Procedure class 14
PCLASS15	NUM	3	Procedure class 15

NEW DATA ELEMENTS

<u>Name</u>	<u>Label</u>	<u>Added to NIS</u>
CHRON16	Chronic condition indicator 16	2009
CHRON17	Chronic condition indicator 17	2009
CHRON18	Chronic condition indicator 18	2009
CHRON19	Chronic condition indicator 19	2009
CHRON20	Chronic condition indicator 20	2009
CHRON21	Chronic condition indicator 21	2009
CHRON22	Chronic condition indicator 22	2009
CHRON23	Chronic condition indicator 23	2009
CHRON24	Chronic condition indicator 24	2009
CHRON25	Chronic condition indicator 25	2009
CHRONB16	Chronic condition body system 16	2009
CHRONB17	Chronic condition body system 17	2009
CHRONB18	Chronic condition body system 18	2009
CHRONB19	Chronic condition body system 19	2009
CHRONB20	Chronic condition body system 20	2009
CHRONB21	Chronic condition body system 21	2009
CHRONB22	Chronic condition body system 22	2009
CHRONB23	Chronic condition body system 23	2009
CHRONB24	Chronic condition body system 24	2009
CHRONB25	Chronic condition body system 25	2009
DXMCCS1	Multi-Level CCS: Diagnosis 1	2009
E_MCCS1	Multi-Level CCS: E Code 1	2009
PRMCCS1	Multi-Level CCS: Procedure 1	2009

DISCONTINUED DATA ELEMENTS

The following CCS-MHSA data elements were discontinued beginning with the 2007 NIS because the CCS-MHSA scheme was incorporated into the CCS system beginning with 2007 data:

<u>Name</u>	<u>Type</u>	<u>Length</u>	<u>Label</u>
CCSMGN1	NUM	3	CCS-MHSA general category: principal diagnosis
CCSMGN2	NUM	3	CCS-MHSA general category: diagnosis 2
CCSMGN3	NUM	3	CCS-MHSA general category: diagnosis 3
CCSMGN4	NUM	3	CCS-MHSA general category: diagnosis 4
CCSMGN5	NUM	3	CCS-MHSA general category: diagnosis 5
CCSMGN6	NUM	3	CCS-MHSA general category: diagnosis 6
CCSMGN7	NUM	3	CCS-MHSA general category: diagnosis 7
CCSMGN8	NUM	3	CCS-MHSA general category: diagnosis 8
CCSMGN9	NUM	3	CCS-MHSA general category: diagnosis 9
CCSMGN10	NUM	3	CCS-MHSA general category: diagnosis 10
CCSMGN11	NUM	3	CCS-MHSA general category: diagnosis 11
CCSMGN12	NUM	3	CCS-MHSA general category: diagnosis 12
CCSMGN13	NUM	3	CCS-MHSA general category: diagnosis 13
CCSMGN14	NUM	3	CCS-MHSA general category: diagnosis 14
CCSMGN15	NUM	3	CCS-MHSA general category: diagnosis 15
CCSMSP1	NUM	3	CCS-MHSA specific category: principal diagnosis
CCSMSP2	NUM	3	CCS-MHSA specific category: diagnosis 2
CCSMSP3	NUM	3	CCS-MHSA specific category: diagnosis 3
CCSMSP4	NUM	3	CCS-MHSA specific category: diagnosis 4
CCSMSP5	NUM	3	CCS-MHSA specific category: diagnosis 5
CCSMSP6	NUM	3	CCS-MHSA specific category: diagnosis 6
CCSMSP7	NUM	3	CCS-MHSA specific category: diagnosis 7
CCSMSP8	NUM	3	CCS-MHSA specific category: diagnosis 8
CCSMSP9	NUM	3	CCS-MHSA specific category: diagnosis 9
CCSMSP10	NUM	3	CCS-MHSA specific category: diagnosis 10
CCSMSP11	NUM	3	CCS-MHSA specific category: diagnosis 11
CCSMSP12	NUM	3	CCS-MHSA specific category: diagnosis 12
CCSMSP13	NUM	3	CCS-MHSA specific category: diagnosis 13
CCSMSP14	NUM	3	CCS-MHSA specific category: diagnosis 14
CCSMSP15	NUM	3	CCS-MHSA specific category: diagnosis 15
ECCSMGN1	NUM	3	CCS-MHSA general category: E Code 1
ECCSMGN2	NUM	3	CCS-MHSA general category: E Code 2
ECCSMGN3	NUM	3	CCS-MHSA general category: E Code 3
ECCSMGN4	NUM	3	CCS-MHSA general category: E Code 4

Appendix E: Restrictions for the NIS

Summary of State-Specific NIS Restrictions, 2009 (table left blank)

State	Exclude State from NIS	Exclude specific hospitals	Restrict % of cases or hospitals	HOSPID only hospital identifier	Exclude hospital from frame if only one hospital in state stratum	Set strata and hospital characteristics to missing if hospital is unique	Set hospital structural characteristics and outpatient services to missing	Set MDNUM missing	Set AGEDAY missing	Set other selected data elements to missing	Mask data	Do not document specific payer if < 100 discharges per year
AR				X ¹								
CA								X ²	X ³		X ⁴	
CO							X					
CT			X ⁵				X	X				
FL									X	X ⁶		
GA				X	X	X	X ⁷					
HI				X	X	X						
IA										X ⁸		
IL			X ⁹					X ¹⁰				
IN				X	X	X		X ¹¹				
KS				X	X	X						
LA				X	X	X						
MA								X	X	X ¹²		
ME				X	X	X			X		X ¹³	

1 Arkansas prohibits HCUP from releasing the AHA-defined hospital name, address, city, and ZIP code on the NIS. However, they will permit the release of the HOSPSTCO, HFIPSSTCO, the DSHOSPID, and the AHA ID, which allows users to link with the AHA Annual Survey to obtain hospital name and address.

2 California does not supply physician identifiers to HCUP and they are marked as non-releasable on their MOA.

3 For California, age in days (AGEDAY) and age in years (AGE) are suppressed for some records. In some cases, AGE is set to the midpoint of the age category.

4 For California, other data elements are masked to ensure patient confidentiality.

5 Notify if more than 50% of CT hospitals are selected for NIS.

6 For Florida, Set AMONTH to missing.

7 Georgia allows only HOSP_MHSMEMBER, HOSP_MHSCLUSTER, and HOSP_OPSURGPCT.

8 Secondary payer missing.

9 No more than 40% of IL discharges may be selected for NIS.

10 Illinois does not supply physician identifiers to HCUP and they are marked as non-releasable on their MOA.

11 Indiana does not supply physician identifiers to HCUP and they are marked as non-releasable on their MOA.

12 Massachusetts requires setting PL_NCHS2006 to missing.

State	Exclude State from NIS	Exclude specific hospitals	Restrict % of cases or hospitals	HOSPID only hospital identifier	Exclude hospital from frame if only one hospital in state stratum	Set strata and hospital characteristics to missing if hospital is unique	Set hospital structural characteristics and outpatient services to missing	Set MDNUM missing	Set AGEDAY missing	Set other selected data elements to missing	Mask data	Do not document specific payer if < 100 discharges per year
MI		X ¹⁴		X	X	X						
MO				X	X	X						
NE		X ¹⁵		X	X	X						
NH									X			
NJ												X
NM				X	X	X						
NC								X				
OH				X	X	X		X ¹⁶				
OK				X	X	X		X ¹⁷				
SC		X ¹⁸		X	X	X	X ¹⁹		X			
SD				X	X	X						
TN				X	X	X						X
TX				X	X	X			X		X ²⁰	
UT								X				
VT								X				
VA			X ²¹									
WV								X		X ²²		
WY				X	X	X						

13 For Maine, randomly reorder the secondary diagnosis and procedures and associated data elements. Set ages to midpoints of ranges. Suppress all HCUP elements that are either (1) used to retain the source-supplied values as provided by the data organization (_X variables), or (2) are UB92/UB04 versions of HCUP data elements.

14 Exclude hospitals with 25% or more missing charges missing on all records.

15 Exclude hospitals with high percentage of missing Medicare cases.

16 Ohio does not supply physician identifiers to HCUP and they are marked as non-releasable on their MOA.

17 Oklahoma does not supply physician identifiers to HCUP and they are marked as non-releasable on their MOA.

18 Two specific hospitals were excluded by the state.

19 South Carolina allows the release of HOSP_OPSURGPCT only.

20 For Texas, set ages to the midpoint of ranges.

21 No more than 50% of VA hospitals may be selected for NIS.

22 West Virginia does not supply race and it is marked as non-releasable on their MOA.

