



# H·CUP

HEALTHCARE COST AND UTILIZATION PROJECT

## HCUP Methods Series



Agency for Healthcare  
Research and Quality



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The Healthcare Cost and Utilization Project (HCUP) Methods Series Report *An Examination of Expected Payer Coding in HCUP Databases* was produced in order to inform HCUP data users about expected payer codes by (1) presenting detailed information about the expected payer codes collected by HCUP States, (2) suggesting how these payer codes can be used for research purposes, and (3) examining the extent to which HCUP data capture discharges covered by these payers in comparison with other national data sources. Although the report provides information on all types of payers, the focus is on payers for low-income populations (especially the uninsured) and managed care. These are two areas of coding that tend to be the least standardized, and they are of increasing interest for researchers.

The Methods Series report includes a main descriptive report and four separate supplements. Supplements 1–3 include coding information for the HCUP State databases specific to the uninsured, managed care, and Medicaid. Supplement 4 has detailed data tables supporting the comparative figures in the main report.

This document includes the three supplements with information on the expected payer coding in the 2008–2012 HCUP State Inpatient Databases (SID), State Ambulatory Surgery and Services Databases (SASD), and State Emergency Department Databases (SEDD).

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**SUPPLEMENT 1. HCUP STATE-SPECIFIC RECODES FOR THE UNINSURED**

The following table includes State-specific recodes for the programs that cover the uninsured. Recoding these payers to uninsured aligns the HCUP payer codes with the American Community Survey (ACS) definition of the uninsured. The information can be reported in either the expected primary payer as received from the State (HCUP data element PAY1\_X) or the expected primary payer plan identifier as received from the State (HCUP data element PAYER1\_X). Effective dates for coding are specified by the HCUP database: State Inpatient Databases (SID), State Ambulatory Surgery and Services Databases (SASD), and State Emergency Department Databases (SEDD). If a State is not listed, then it does not identify other Federal, State, and local programs that serve the uninsured.

**Table 1A. State-Specific Recodes for the Uninsured to Align HCUP Payer Codes with the American Community Survey (ACS)**

State	PAY1_X Source Value (Unless Noted)	SID Years	SASD Years	SEDD Years	Source Description
Alaska	06	2010–2012	N/A	N/A	Indian Health Service
Arizona	10	2008–2012	N/A	2008–2012	Indian Health Services
California	05n, where n=0–3	2008–2012	N/A	N/A	County Indigent Programs
California	07n, where n=0–3	2008–2012	N/A	N/A	Other Indigent (includes charity care)
Colorado	15	2008–2012	2008–2012	N/A	Colorado Medically Indigent
Georgia	33	2008–2012	2008–2012	2008–2012	Indian Health Service or Tribe
Georgia	331	2008–2012	2008–2012	2008–2012	Indian Health Service (Regular)
Georgia	332	2008–2012	2008–2012	2008–2012	Indian Health Service (Contract)
Georgia	333	2008–2012	2008–2012	2008–2012	Indian Health Service (Managed Care)
Georgia	334	2008–2012	2008–2012	2008–2012	Indian Tribe (Sponsored Coverage)
Georgia	342	2008–2012	2008–2012	2008–2012	Migrant Health Program
Georgia	343	2008–2012	2008–2012	2008–2012	Ryan White Act
Maryland	PAYERn_X = 93 and 94	2009–2012	2009–2012	2009–2012	Maryland Health Insurance Plan (MHIP)
Massachusetts	H	2009–2012	N/A	2009–Sept 2009	Health Safety Net
Massachusetts	995	N/A	N/A	Oct 2009–2012	Health Safety Net
Massachusetts	PAYERn_X = 178	2010–2012	N/A	N/A	Children’s Medical Security Plan (CMSP)
Montana	98940	2009–2012	N/A	N/A	Indian Health Services
Nevada	13	2008–2012	2011–2012	2010–2012	Hill-Burton Free Care (HBFC)

<b>State</b>	<b>PAY1_X Source Value (Unless Noted)</b>	<b>SID Years</b>	<b>SASD Years</b>	<b>SEDD Years</b>	<b>Source Description</b>
Nevada	23	2008–2012	2011–2012	2010–2012	County Indigent Referral (Patient has already been approved for County Coverage)
Nevada	29	2008–2012	2011–2012	2010–2012	Section 1011 undocumented Aliens/unknown
New Mexico	4	2009–2012	N/A	N/A	IHS/PHS
New Mexico	9	2009–2012	N/A	N/A	County Indigent Funds (CIF)
Ohio	R	2008–2012	2008–2012	2008–2012	Hospital Care Assurance Program (HCAP)
Oregon	33	2008–2012	2010–2012	N/A	Indian Health Service or Tribe
South Carolina	12	2008–2012	2008–2012	2008–2012	Other Agency, Charity (i.e. Medical Indigent Assistance Program (MAIP), Hill Burton, County Government, etc.)
Virginia	10	2008–2012	N/A	N/A	Indigent/Charity

## SUPPLEMENT 2. HCUP STATE-SPECIFIC CODING FOR MANAGED CARE

The following tables include State-specific coding that can be used to identify patients in which the expected payer is a managed care plan.

- Table 2A includes information on the coding of Medicare managed care plans.
- Table 2B includes information on the coding of Medicaid managed care plans.
- Table 2B includes information on the coding of managed care plans for the privately insured.

The information can be reported in either the expected primary payer, as received from the State (HCUP data element PAY1\_X), or the expected primary payer plan identifier, as received from the State (HCUP data element PAYER1\_X). Effective dates for coding are specified by the HCUP database: State Inpatient Databases (SID), State Ambulatory Surgery and Services Databases (SASD), and State Emergency Department Databases (SEDD). If a State is not listed, then it did not have detailed payer codes that identified managed care plans.

**Table 2A. State-Specific Coding for Medicare Managed Care**

State	PAY1_X Source Value (Unless Noted)	SID Years	SASD Years	SEDD Years	Source Description
Arizona	11	2008–2012	N/A	2008–2012	Medicare Risk
California	11	2008–2012	N/A	N/A	Medicare (HMO)
California	12	2008–2012	N/A	N/A	Medicare (Managed care - Other)
California	16	N/A	2008–2012	2008–2012	Health Maintenance Organization (HMO) Medicare Risk
Connecticut	M	2008–2012	2008–2012	2008–2012	Medicare managed care
Florida	B	2008–2009	2008–2009	2008–2009	Medicare HMO or Medicare PPO
Florida	B	2010–2012	2010–2012	2010–2012	Medicare Managed Care
Georgia	11	2008–2012	2008–2012	2008–2012	Medicare Managed Care
Georgia	111	2008–2012	2008–2012	2008–2012	Medicare HMO
Georgia	1111	2008–2012	2008–2012	2008–2012	Medicare HMO, Aetna Inc.
Georgia	1112	2008–2012	2008–2012	2008–2012	Medicare HMO, Coventry Health Care, Inc.
Georgia	1113	2008–2012	2008–2012	2008–2012	Medicare HMO, Humana Inc.
Georgia	1114	2008–2012	2008–2012	2008–2012	Medicare HMO, Kaiser Foundation Health Plan, Inc.
Georgia	1115	2008–2012	2008–2012	2008–2012	Medicare HMO, United HealthCare of Georgia, Inc.
Georgia	1116	2008–2012	2008–2012	2008–2012	Medicare HMO, Wellcare of Georgia
Georgia	1117	2008–2012	2008–2012	2008–2012	Medicare HMO, WellPoint, Inc.
Georgia	1118	2008–2012	2008–2012	2008–2012	Other Medicare HMO
Georgia	112	2008–2012	2008–2012	2008–2012	Medicare Managed Care (PPO)

<b>State</b>	<b>PAY1_X Source Value (Unless Noted)</b>	<b>SID Years</b>	<b>SASD Years</b>	<b>SEDD Years</b>	<b>Source Description</b>
Georgia	113	2008–2012	2008–2012	2008–2012	Medicare Managed Care (POS)
Georgia	119	2008–2012	2008–2012	2008–2012	Medicare Managed Care (Other)
Hawaii	19	2008–2012	2008–2012	2008–2012	Kaiser 65C+
Hawaii	26	2008–2012	2008–2012	2008–2012	AlohaCare Advantage/Advantage Plus
Iowa	11	2008–2012	2008–2012	2008–2012	Medicare Managed Care
Kansas	101	2008–2012	2008–2012	2008–2012	Medicare Managed Care
Kentucky	98945	2009	2009	2009	Medicare Managed Care
Kentucky	R	2008; 2010–2012	2008; 2010–2012	2008; 2010–2012	Medicare Managed Care
Maryland	15	2008–2012	2008–2012	2008–2012	Medicare HMO
Massachusetts	F	2008–2012	N/A	2008–2009	Medicare Managed Care
Michigan	30	2008–2012	2008–2012	N/A	Medicare Managed Care Plans
Minnesota	6000103	2008–2012	2008–2012	2008–2012	Blue Cross, MN, Medicare
Minnesota	7000102	2008–2012	2008–2012	2008–2012	Medica - Choice, Medicare
Minnesota	7000202	2008–2012	2008–2012	2008–2012	Group Health, Medicare
Minnesota	7000402	2008–2012	2008–2012	2008–2012	Medica - Primary, Medicare
Minnesota	7000602	2008–2012	2008–2012	2008–2012	UCare, Medicare
Minnesota	7000702	2008–2012	2008–2012	2008–2012	Blue Plus, Medicare
Minnesota	7000802	2008–2012	2008–2012	2008–2012	Metro. Health Plan, Medicare
Minnesota	7001002	2008–2012	2008–2012	2008–2012	Health Partners, Medicare
Minnesota	7001302	2008–2012	2008–2012	2008–2012	First Plan HMO, Medicare
Minnesota	7000902	2008–2012	2008–2012	2008–2012	Blue Cross HMO, Medicare
Minnesota	7009902	2008–2012	2008–2012	2008–2012	Other HMO, Medicare
Minnesota	8000502	2008–2012	2008–2012	2008–2012	America's PPO, Medicare
Minnesota	8000602	2008–2012	2008–2012	2008–2012	Aetna PPO, Medicare
Minnesota	8009902	2008–2012	2008–2012	2008–2012	Other PPO, Medicare
Montana	98945	2009–2012	N/A	N/A	Medicare Managed Care
New Hampshire	10	2008–2009	2008–2009	2008–2009	Medicare Managed Care
New Jersey	082	2008–2012	2008–2012	2008–2012	Medicare HMO
Nevada	27	2008–2012	2011–2012	2010–2012	Medicare HMO
New York	16	2008–2012	2008–2012	2008–2012	Medicare HMO
North Dakota	6000103	2011–2012	N/A	2011–2012	Blue Cross, MN, Medicare
North Dakota	7000102	2011–2012	N/A	2011–2012	Medica - Choice, Medicare

<b>State</b>	<b>PAY1_X Source Value (Unless Noted)</b>	<b>SID Years</b>	<b>SASD Years</b>	<b>SEDD Years</b>	<b>Source Description</b>
North Dakota	7000202	2011–2012	N/A	2011–2012	Group Health, Medicare
North Dakota	7000402	2011–2012	N/A	2011–2012	Medica - Primary, Medicare
North Dakota	7000602	2011–2012	N/A	2011–2012	UCare, Medicare
North Dakota	7000702	2011–2012	N/A	2011–2012	Blue Plus, Medicare
North Dakota	7000802	2011–2012	N/A	2011–2012	Metro. Health Plan, Medicare
North Dakota	7001002	2011–2012	N/A	2011–2012	Health Partners, Medicare
North Dakota	7001302	2011–2012	N/A	2011–2012	First Plan HMO, Medicare
North Dakota	7000902	2011–2012	N/A	2011–2012	Blue Cross HMO, Medicare
North Dakota	7009902	2011–2012	N/A	2011–2012	Other HMO, Medicare
North Dakota	8000502	2011–2012	N/A	2011–2012	America's PPO, Medicare
North Dakota	8000602	2011–2012	N/A	2011–2012	Aetna PPO, Medicare
North Dakota	8009902	2011–2012	N/A	2011–2012	Other PPO, Medicare
Ohio	O	2008–2012	2008–2012	2008–2012	Medicare Managed Care
Oregon	11	2008–2012	2010–2012	N/A	Medicare (Managed Care)
Pennsylvania	12	2008–2012	N/A	N/A	Medicare - PPO
Pennsylvania	13	2008–2012	N/A	N/A	Medicare - POS
Pennsylvania	15	2008–2012	N/A	N/A	Medicare - HMO
Rhode Island	B 4000	2008–2012	N/A	N/A	Out of State Blue Cross, Medicare (managed care)
Rhode Island	H 4000	2008–2012	N/A	N/A	Coordinated Health Partners, Medicare (managed care)
Rhode Island	O 4000	2008–2012	N/A	N/A	Other, Medicare (managed care)
Rhode Island	U 4000	2008–2012	N/A	N/A	UHC, Medicare (managed care)
South Dakota	11	2008–2012	2008–2012	2008–2012	Medicare - Managed Care (e.g., HMO, PPO, PCCM))
Tennessee	K	2008–2012	2008–2012	2008–2012	Medicare HMO/PSO
Texas	16	2008–2012	2011–2012	N/A	Health Maintenance Organization (HMO) Medicare Risk
Vermont	PAYER1_X = M4002	2008–2012	2008–2012	2008–2012	Medicare - Managed Care
Wisconsin	MED02	2008–2012	2008–2012	2008–2012	Medicare - Alternative health care insurance plans (e.g., HMO, PPO, PPA)
Wisconsin	T1802	2008–2012	2008–2012	2008–2012	Medicare - Alternative health care insurance plans (e.g., HMO, PPO, PPA)



State	PAY1_X Source Value (Unless Noted)	SID Years	SASD Years	SEDD Years	Source Description
West Virginia	PAYER1_X = 113n, 114n or 115n, where n can have the values 0-9	2008–2012	N/A	N/A	WV reports a four-digit payer code in PAYERn_X. The first digit indicates the types of payer with 1 indicating the federal government. The second digit indicates the payment program with the value 1 indicating Medicare. The third digit indicates the payment modality with the values: (3) point of service, (4) HMO, and (5) other managed care. The fourth digit include information on the HMO using the following values: (0) none, (1) Acordia, (2) Advantage, (3) Carelink, (4) Coventry Health plan, (5) Health Plan of Upper Ohio Valley, (6) Optimum Choice, (8) unknown, and (9) not elsewhere classified

**Table 2B. State-Specific Coding for Medicaid Managed Care**

State	PAY1_X Source Value (Unless Noted)	SID Years	SASD Years	SEDD Years	Source Description
California	021	2008–2012	N/A	N/A	Medi-Cal (HMO)
California	022	2008–2012	N/A	N/A	Medi-Cal (Managed care - Other)
Connecticut	J	2008–2012	2008–2012	2008–2012	Medicaid managed care
Florida	D	2008–2009	2008–2009	2008–2009	Medicaid HMO
Florida	D	2010–2012	2010–2012	2010–2012	Medicaid Managed Care
Georgia	21	2008–2012	2008–2012	2008–2012	Medicaid Managed Care
Georgia	211	2008–2012	2008–2012	2008–2012	Medicaid HMO
Georgia	2111	2008–2012	2008–2012	2008–2012	Medicaid HMO, Amerigroup CMO
Georgia	2112	2008–2012	2008–2012	2008–2012	Medicaid HMO, PeachState CMO
Georgia	2113	2008–2012	2008–2012	2008–2012	Medicaid HMO, WellCare CMO
Georgia	212	2008–2012	2008–2012	2008–2012	Medicaid Managed Care (PPO)
Georgia	219	2008–2012	2008–2012	2008–2012	Medicaid Managed Care (Other)
Hawaii	13	2008–2012	2008–2012	2008–2012	Hawaii QUEST (managed care)
Hawaii	15	2008–2012	2008–2012	2008–2012	AlohaCare (plan participating in QUEST)
Hawaii	22	2008–2012	2008–2012	2008–2012	HMSA QUEST
Hawaii	23	2008–2012	2008–2012	2008–2012	Kaiser QUEST
Hawaii	24	2008–2012	2008–2012	2008–2012	QUEST (Any QUEST Plan except AlohaCare, HMSA Quest, Kaiser Quest)
Iowa	12	2008–2012	2008–2012	2008–2012	Medicaid Managed Care
Kansas	102	2008–2012	2008–2012	2008–2012	Medicaid Managed Care
Kentucky	98940	2009	2009	2009	Passport Medicaid Managed Care
Kentucky	P	2008; 2010–2012	2008; 2010–2012	2008; 2010–2012	Passport Medicaid Managed Care
Kentucky	Q	2010–2012	2010–2012	2010–2012	Kentucky Spirit Medicaid Managed Care
Kentucky	T	2010–2012	2010–2012	2010–2012	Coventry Cares of KY Medicaid Managed Care
Kentucky	U	2010–2012	2010–2012	2010–2012	WellCare of Kentucky Medicaid Managed Care
Massachusetts	B	2008–2012	N/A	2008–2009	Medicaid Managed Care
Maryland	14	2008–2012	2008–2012	2008–2012	Medicaid HMO
Michigan	40	2008–2012	2008–2012	N/A	Medicaid Managed Care Plans
Minnesota	4000800	2010–2012	2010–2012	2010–2012	PrimeWest, Cty Based Purchased
Minnesota	4000900	2010–2012	2010–2012	2010–2012	Itasca Medical Care, CBP
Minnesota	4001000	2010–2012	2010–2012	2010–2012	So. Country Hlth Alliance, CBP

<b>State</b>	<b>PAY1_X Source Value (Unless Noted)</b>	<b>SID Years</b>	<b>SASD Years</b>	<b>SEDD Years</b>	<b>Source Description</b>
Minnesota	7000101	2008–2012	2008–2012	2010–2012	Medica - Choice, Medicaid
Minnesota	7000201	2008–2012	2008–2012	2010–2012	Group Health, Medicaid
Minnesota	7000401	2008–2012	2008–2012	2010–2012	Medica - Primary, Medicaid
Minnesota	7000601	2008–2012	2008–2012	2010–2012	Ucare, Medicaid
Minnesota	7000701	2008–2012	2008–2012	2010–2012	Blue Plus, Medicaid
Minnesota	7000801	2008–2012	2008–2012	2010–2012	Metro. Health Plan, Medicaid
Minnesota	7000901	2008–2012	2008–2012	2010–2012	Blue Cross HMO, Medicaid
Minnesota	7001001	2008–2012	2008–2012	2010–2012	Health Partners, Medicaid
Minnesota	7001301	2008–2012	2008–2012	2010–2012	First Plan HMO, Medicaid
Minnesota	7009901	2008–2012	2008–2012	2010–2012	Other HMO, Medicaid
Minnesota	8000901	2008–2012	2008–2012	2010–2012	Blue Cross PPO, Medicaid
Minnesota	8001001	2008–2012	2008–2012	2010–2012	Medica Choice PPO, Medicaid
Minnesota	8001501	2008–2012	2008–2012	2010–2012	LaborCare PPO, Medicaid
Minnesota	8009901	2008–2012	2008–2012	2010–2012	Other PPO, Medicaid
Montana	98935	2009–2012	N/A	N/A	Medicaid Managed Care
New Hampshire	11	2008–2009	2008–2009	2008–2009	Medicaid Managed Care
New Jersey	083	2008–2012	2008–2012	2008–2012	Medicaid HMO
Nevada	28	2008–2012	2011–2012	2010–2012	Nevada Medicaid HMO
New York	17	2008–2012	2008–2012	2011–2012	Medicaid HMO
North Dakota	7000101	2011–2012	N/A	2011–2012	Medica - Choice, Medicaid
North Dakota	7000201	2011–2012	N/A	2011–2012	Group Health, Medicaid
North Dakota	7000401	2011–2012	N/A	2011–2012	Medica - Primary, Medicaid
North Dakota	7000601	2011–2012	N/A	2011–2012	Ucare, Medicaid
North Dakota	7000701	2011–2012	N/A	2011–2012	Blue Plus, Medicaid
North Dakota	7000801	2011–2012	N/A	2011–2012	Metro. Health Plan, Medicaid
North Dakota	7000901	2011–2012	N/A	2011–2012	Blue Cross HMO, Medicaid
North Dakota	7001001	2011–2012	N/A	2011–2012	Health Partners, Medicaid
North Dakota	7001301	2011–2012	N/A	2011–2012	First Plan HMO, Medicaid
North Dakota	7009901	2011–2012	N/A	2011–2012	Other HMO, Medicaid
North Dakota	8000901	2011–2012	N/A	2011–2012	Blue Cross PPO, Medicaid
North Dakota	8001001	2011–2012	N/A	2011–2012	Medica Choice PPO, Medicaid
North Dakota	8001501	2011–2012	N/A	2011–2012	LaborCare PPO, Medicaid
North Dakota	8009901	2011–2012	N/A	2011–2012	Other PPO, Medicaid

<b>State</b>	<b>PAY1_X Source Value (Unless Noted)</b>	<b>SID Years</b>	<b>SASD Years</b>	<b>SEDD Years</b>	<b>Source Description</b>
Ohio	M	2008–2012	2008–2012	2008–2012	Medicaid HMO
Oregon	21	2008–2012	2010–2012	N/A	Medicaid (Managed Care)
Pennsylvania	22	2008–2012	N/A	N/A	Medicaid - PPO
Pennsylvania	25	2008–2012	N/A	N/A	Medicaid - HMO
Rhode Island	B 3000	2008–2012	N/A	N/A	Out of State Blue Cross, Medicaid (managed care)
Rhode Island	H 3000	2008–2012	N/A	N/A	Coordinated Health Partners, Medicaid (managed care)
Rhode Island	N 3000	2008–2012	N/A	N/A	Neighborhood Health Plan, Medicaid (managed care)
Rhode Island	O 3000	2008–2012	N/A	N/A	Other, Medicaid (managed care)
Rhode Island	U 3000	2008–2012	N/A	N/A	UHC, Medicaid (managed care)
South Dakota	12	2008–2012	2008–2012	2008–2012	Medicaid - Managed Care (e.g. HMO, PPI, PCCM)
Tennessee	T	2008–2012	2008–2012	2008–2012	TennCare Plan: Unspecified
Tennessee	5	2008–2011	2008–2011	2008–2011	TennCare Plan: UAHC
Tennessee	7	2008–2011	2008–2011	2008–2011	TennCare Plan: Windsor Health Plan of TN, Inc.
Tennessee	8	2008–2012	2008–2012	2008–2012	TennCare Plan: AmeriChoice (previously John Deere/Heritage)
Tennessee	9	2008–2011	2008–2011	2008–2011	TennCare Plan: Preferred Health Partnership
Tennessee	10	2008–2012	2008–2012	2008–2012	TennCare Plan: AmeriChoice (previously John Deere/Heritage)
Tennessee	F	2008–2012	2008–2012	2008–2012	TennCare Plan: TLC Family Care Healthplan
Tennessee	J	2008–2012	2008–2012	2008–2012	TennCare Plan: Blue Care
Tennessee	Q	2008–2012	2008–2012	2008–2012	TennCare Plan: TennCare Select
Tennessee	R	2008–2011	2008–2011	2008–2011	TennCare Plan: Unison Health Plan
Tennessee	U	2008–2011	2008–2011	2008–2011	TennCare Behavioral: Tennessee Behavioral Health, Inc.
Tennessee	E	2008–2012	2008–2012	2008–2012	TennCare Behavioral: BHO - plan unspecified
Tennessee	X	2008–2012	2008–2012	2008–2012	TennCare Behavioral: Premier Behavioral Systems of TN
Vermont	PAYER1_X = D2002	2008–2012	2008–2012	2008–2012	Medicaid – CHP Kaiser
Wisconsin	MAX02	2008–2010	2008–2010	2008–2010	Badger Care Plus - Alternative health care insurance plans (HMO, PPO, PPA, etc.)
Wisconsin	T1902	2008–2012	2008–2012	2008–2012	T19nn means Wisconsin Medicaid and 02 means Alternative Health Care Insurance Plans (HMO, PPO)

State	PAY1_X Source Value (Unless Noted)	SID Years	SASD Years	SEDD Years	Source Description
West Virginia	PAYER1_X = 213n, 214n, 215n, 313n, 314n, 315n, where n can have the values 0-9	2008–2012	N/A	N/A	WV reports a four-digit payer code in PAYERn_X. The first two digits of 21 indicate West Virginia Medicaid and the first two digits of 31 indicate other States' Medicaid. The third digit indicates the payment modality with the values: (3) point of service, (4) HMO, and (5) other managed care. The fourth digit include information on the HMO using the following values: (0) none, (1) Acordia, (2) Advantage, (3) Carelink, (4) Coventry Health plan, (5) Health Plan of Upper Ohio Valley, (6) Optimum Choice, (8) unknown, and (9) not elsewhere classified

**Table 2C. State-Specific Coding for Private Managed Care**

State	PAY1_X Source Value (Unless Noted)	SID Years	SASD Years	SEDD Years	Source Description
Arkansas	H	2008–2012	N/A	N/A	HMO/Managed Care
Arizona	02	2008–2012	N/A	2008–2012	HMO
Arizona	03, 3	2008–2012	N/A	2008–2012	PPO
California	031	2008–2012	N/A	N/A	Private Coverage (HMO)
California	032	2008–2012	N/A	N/A	Private Coverage (Managed care - Other)
California	12	N/A	2008–2012	2008–2012	Preferred Provider Organization (PPO)
California	13	N/A	2008–2012	2008–2012	Point of Service (POA)
California	HM	N/A	2008–2012	2008–2012	Health Maintenance Organization
Colorado	08	2008–2012	2008–2012	N/A	HMO-PPO / Managed Care / Discounted
Connecticut	S	2008–2012	2008–2012	2008–2012	HMO
Connecticut	T	2008–2012	2008–2012	2008–2012	PPO
Florida	F	2008-2009	2008-2009	2008-2009	Commercial HMO
Florida	G	2008-2009	2008-2009	2008-2009	Commercial PPO
Georgia	51	2008–2012	2008–2012	2008–2012	Managed Care (Private)
Georgia	511	2008–2012	2008–2012	2008–2012	Commercial Managed Care (HMO)
Georgia	512	2008–2012	2008–2012	2008–2012	Commercial Managed Care (PPO)
Georgia	513	2008–2012	2008–2012	2008–2012	Commercial Managed Care (POS)
Georgia	519	2008–2012	2008–2012	2008–2012	Managed Care, Other (non-HMO)
Georgia	61	2008–2012	2008–2012	2008–2012	BC Managed Care
Georgia	611	2008–2012	2008–2012	2008–2012	BC Managed Care (HMO)
Georgia	612	2008–2012	2008–2012	2008–2012	BC Managed Care (PPO)
Georgia	613	2008–2012	2008–2012	2008–2012	BC Managed Care (POS)
Georgia	619	2008–2012	2008–2012	2008–2012	BC Managed Care (Other)
Georgia	7	2008–2012	2008–2012	2008–2012	Managed Care (Unspecified)
Georgia	71	2008–2012	2008–2012	2008–2012	Managed Care (Unspecified) - HMO
Georgia	72	2008–2012	2008–2012	2008–2012	Managed Care (Unspecified) - PPO
Georgia	73	2008–2012	2008–2012	2008–2012	Managed Care (Unspecified) - POS
Georgia	79	2008–2012	2008–2012	2008–2012	Managed Care (Unspecified) - other managed care (unknown if public or private)
Hawaii	5	2008–2012	2008–2012	2008–2012	Kaiser

State	PAY1_X Source Value (Unless Noted)	SID Years	SASD Years	SEDD Years	Source Description
Illinois	Dnnnnnnnn, where nnnnnnnnn is a 9-digit number	2008–2012	N/A	N/A	Commercial HMO
Kansas	104	2008–2012	2008–2012	2008–2012	Blue Cross/Blue Shield Managed Care
Kansas	107	2008–2012	2008–2012	2008–2012	All Commercial Payers Managed Care
Kentucky	L	2008; 2010–2012	2008; 2010–2012	2008; 2010–2012	Commercial - HMO
Kentucky	M	2008; 2010–2012	2008; 2010–2012	2008; 2010–2012	Commercial - Other Managed Care
Kentucky	98923	2009	2009	2009	Commercial - PPO
Kentucky	98922	2009	2009	2009	Commercial - HMO
Louisiana	H	2008–2012	N/A	N/A	HMO
Massachusetts	C	2008–2012	N/A	2007- Q3 2009	Blue Cross Managed Care
Massachusetts	D	2008–2012	N/A	2007- Q3 2009	Commercial Managed Care
Massachusetts	8	2008–2012	N/A	2008- Q3 2009	HMO
Massachusetts	E	2008–2012	N/A	2008- Q3 2009	PPO and Other Managed Care not listed elsewhere
Maryland	16	2008–2012	2008–2012	2008–2012	Blue Cross of the National Capital Area (HMO)
Maryland	05	2008–2012	2008–2012	2008–2012	Commercial/PPO
Maryland	12	2008–2012	2008–2012	2008–2012	Managed Care
Maine	10	2008–2010	2008–2010	2008-2010	HMO/PPO
Michigan	09	2008–2012	2008–2012	N/A	Managed care or other
Michigan	11	2008–2012	2008–2012	N/A	Blue Cross/Blue Shield HMO
Michigan	12	2008–2012	2008–2012	N/A	Other HMO
Michigan	17	2008–2012	2008–2012	N/A	Blue Cross/Blue Shield PPO/PPA
Michigan	18	2008–2012	2008–2012	N/A	Other PPO/PPA
Minnesota	6000100	2008–2012	2008–2012	2008–2012	Blue Cross, MN
Minnesota	7000000	2008–2012	2008–2012	2008–2012	Other HMO
Minnesota	7000100	2008–2012	2008–2012	2008–2012	Medica - Choice
Minnesota	7000200	2008–2012	2008–2012	2008–2012	Group Health
Minnesota	7000400	2008–2012	2008–2012	2008–2012	Medica - Primary
Minnesota	7000600	2008–2012	2008–2012	2008–2012	Ucare
Minnesota	7000700	2008–2012	2008–2012	2008–2012	Blue Plus
Minnesota	7000800	2008–2012	2008–2012	2008–2012	Metro. Health Plan
Minnesota	7000900	2008–2012	2008–2012	2008–2012	Blue Cross HMO

<b>State</b>	<b>PAY1_X Source Value (Unless Noted)</b>	<b>SID Years</b>	<b>SASD Years</b>	<b>SEDD Years</b>	<b>Source Description</b>
Minnesota	7001000	2008–2012	2008–2012	2008–2012	Health Partners
Minnesota	7001300	2008–2012	2008–2012	2008–2012	First Plan HMO
Minnesota	7009900	2008–2012	2008–2012	2008–2012	Other HMO
Minnesota	8000000	2008–2012	2008–2012	2008–2012	Other PPO
Minnesota	8000500	2008–2012	2008–2012	2008–2012	ARAZ, Union (formerly, Ethix Midwest; also known as America's PPO)
Minnesota	8000520	2008–2012	2008–2012	2008–2012	ARAZ (formerly Ethix Midwest; also known as America's PPO)
Minnesota	8000600	2008–2012	2008–2012	2008–2012	Aetna PPO
Minnesota	8000700	2008–2012	2008–2012	2008–2012	Group Health PPO
Minnesota	8000900	2008–2012	2008–2012	2008–2012	Blue Cross PPO
Minnesota	8001000	2008–2012	2008–2012	2008–2012	Medica Choice PPO
Minnesota	8001500	2008–2012	2008–2012	2008–2012	LaborCare PPO
Minnesota	8001520	2008–2012	2008–2012	2008–2012	LaborCare PPO, Union
Minnesota	8009900	2008–2012	2008–2012	2008–2012	Other PPO
Minnesota	8009920	2008–2012	2008–2012	2008–2012	Other PPO, union
Mississippi	11	2010–2012	N/A	N/A	PPO
Mississippi	6	2010–2012	N/A	N/A	HMO
Montana	00005	2009–2012	N/A	N/A	Montana HMO - Blue Cross/Blue Shield
North Carolina	H	2008–2009	2008–2009	2008–2009	HMO - PPO
North Carolina	K	2008–2009	2008–2009	2008–2009	Health Maintenance Org
North Carolina	Y	2008–2009	2008–2009	2008–2009	Point of Service
North Carolina	HM	2009–2012	2009–2012	2009–2012	HMO - PPO
North Carolina	16	Oct 2010– 2012	Oct 2010– 2012	Oct 2010– 2012	Health Maintenance Org
North Carolina	13	Oct 2010– 2012	Oct 2010– 2012	Oct 2010– 2012	Point of Service
New Hampshire	5	2008–2009	2008–2009	2008–2009	HMO
New Jersey	032	2008–2012	2008–2012	2008–2012	HMO
New Jersey	033	2008–2012	2008–2012	2008–2012	HMO
New Jersey	034	2008–2012	2008–2012	2008–2012	HMO
New Jersey	035	2008–2012	2008–2012	2008–2012	HMO
New Jersey	036	2008–2012	2008–2012	2008–2012	HMO



<b>State</b>	<b>PAY1_X Source Value (Unless Noted)</b>	<b>SID Years</b>	<b>SASD Years</b>	<b>SEDD Years</b>	<b>Source Description</b>
New Jersey	037	2008–2012	2008–2012	2008–2012	HMO
New Jersey	045	2008–2012	2008–2012	2008–2012	HMO
New Jersey	047	2008–2012	2008–2012	2008–2012	HMO
New Jersey	048	2008–2012	2008–2012	2008–2012	HMO
New Jersey	056	2008–2012	2008–2012	2008–2012	HMO
New Jersey	058	2008–2012	2008–2012	2008–2012	HMO
New Jersey	059	2008–2012	2008–2012	2008–2012	HMO
New Jersey	072	2008–2012	2008–2012	2008–2012	HMO
New Jersey	073	2008–2012	2008–2012	2008–2012	HMO
New Jersey	074	2008–2012	2008–2012	2008–2012	HMO
New Jersey	077	2008–2012	2008–2012	2008–2012	HMO
New Jersey	078	2008–2012	2008–2012	2008–2012	HMO
New Jersey	081	2008–2012	2008–2012	2008–2012	HMO
New Jersey	084	2008–2012	2008–2012	2008–2012	HMO
New Jersey	087	2008–2012	2008–2012	2008–2012	HMO
New Jersey	088	2008–2012	2008–2012	2008–2012	HMO
New Jersey	094	2008–2012	2008–2012	2008–2012	HMO
New Jersey	097	2008–2012	2008–2012	2008–2012	HMO
Nevada	21	2008–2012	2011–2012	2008–2012	Negotiated Discounts e.g. Preferred Provider Organization (PPO)
Nevada	22	2008–2012	2011–2012	2008–2012	Health Maintenance Organization (HMO)
New York	11	2008–2012	2008–2012	2011–2012	HMO (Other)
North Dakota	6000100	2011–2012	N/A	2011–2012	Blue Cross, MN
North Dakota	7000000	2011–2012	N/A	2011–2012	Other HMO
North Dakota	7000100	2011–2012	N/A	2011–2012	Medica - Choice
North Dakota	7000200	2011–2012	N/A	2011–2012	Group Health
North Dakota	7000400	2011–2012	N/A	2011–2012	Medica - Primary
North Dakota	7000600	2011–2012	N/A	2011–2012	Ucare
North Dakota	7000700	2011–2012	N/A	2011–2012	Blue Plus
North Dakota	7000800	2011–2012	N/A	2011–2012	Metro. Health Plan
North Dakota	7000900	2011–2012	N/A	2011–2012	Blue Cross HMO
North Dakota	7001000	2011–2012	N/A	2011–2012	Health Partners
North Dakota	7001300	2011–2012	N/A	2011–2012	First Plan HMO

State	PAY1_X Source Value (Unless Noted)	SID Years	SASD Years	SEDD Years	Source Description
North Dakota	7009900	2011–2012	N/A	2011–2012	Other HMO
North Dakota	8000000	2011–2012	N/A	2011–2012	Other PPO
North Dakota	8000500	2011–2012	N/A	2011–2012	ARAZ, Union (formerly, Ethix Midwest; also known as America's PPO)
North Dakota	8000520	2011–2012	N/A	2011–2012	ARAZ (formerly Ethix Midwest; also known as America's PPO)
North Dakota	8000600	2011–2012	N/A	2011–2012	Aetna PPO
North Dakota	8000700	2011–2012	N/A	2011–2012	Group Health PPO
North Dakota	8000900	2011–2012	N/A	2011–2012	Blue Cross PPO
North Dakota	8001000	2011–2012	N/A	2011–2012	Medica Choice PPO
North Dakota	8001200	2011–2012	N/A	2011–2012	Northwest National Life (NWNL) PPO
North Dakota	8001500	2011–2012	N/A	2011–2012	LaborCare PPO
North Dakota	8001520	2011–2012	N/A	2011–2012	LaborCare PPO, Union
North Dakota	8009900	2011–2012	N/A	2011–2012	Other PPO
North Dakota	8009920	2011–2012	N/A	2011–2012	Other PPO, union
Ohio	K	2008–2012	2008–2012	2008–2012	HMO
Ohio	L	2008–2012	2008–2012	2008–2012	PPO
Ohio	N	2008–2012	2008–2012	2008–2012	Blue Cross HMO
Oregon	51	2008–2012	2010–2012	N/A	HMO/Managed Care
Oregon	511	2008–2012	2010–2012	N/A	Kaiser Permanente
Oregon	61	2008–2012	2010–2012	N/A	Regence Blue Cross Managed Care
Pennsylvania	32	2008–2012	N/A	N/A	Blue Cross - PPO
Pennsylvania	33	2008–2012	N/A	N/A	Blue Cross - POS
Pennsylvania	35	2008–2012	N/A	N/A	Blue Cross - HMO
Pennsylvania	42	2008–2012	N/A	N/A	Commercial - PPO
Pennsylvania	43	2008–2012	N/A	N/A	Commercial - POS
Pennsylvania	45	2008–2012	N/A	N/A	Commercial - HMO
South Carolina	5	2008–2012	2008–2012	2008–2012	HMO
Tennessee	H	2008–2012	2008–2012	2008–2012	Blue Cross - Managed Care - HMO/PPO/Other Managed Care
Tennessee	L	2008–2012	2008–2012	2008–2012	Commerical Managed Care - HMO/PPO/Other Managed Care
Tennessee	H	2008–2012	2008–2012	2008–2012	HMO/Managed Care
Texas	12	2008–2012	2011–2012	N/A	Preferred Provider Organization (PPO)

<b>State</b>	<b>PAY1_X Source Value (Unless Noted)</b>	<b>SID Years</b>	<b>SASD Years</b>	<b>SEDD Years</b>	<b>Source Description</b>
Texas	13	2008–2012	2011–2012	N/A	Point of Service (POS)
Texas	HM	2008–2012	2011–2012	N/A	Health Maintenance Organization
Utah	06	2008–2012	2008–2012	2008–2012	Managed care (HMO and PPO)
Virginia	29	2008–2012	N/A	N/A	HMO/PPO - Unspecified
Virginia	34	2008–2012	N/A	N/A	Kaiser Permanente
Vermont	H	2008–2012	2008–2012	2008–2012	HMO
Vermont	PAYER1_X = H2002	2008–2012	2008–2012	2008–2012	HMO – CHP Kaiser
Vermont	PAYERn_X = H3002	2008–2012	2008–2012	2008–2012	Vermont Health Plan (TVHP) - Vermont Managed Care
Washington	004	2008–2012	N/A	N/A	Health Maintenance Organization (HMO) (e.g., Group Health, Kaiser Foundation, Good Health)
Wisconsin	WPS02	2008-2010	2008-2010	2008-2010	Wisconsin Physicians Service - Alternative health care insurance plans
Wisconsin	OTH12	2008-2010	2008-2010	2008-2010	Commercial or private insurance - Alternative health care insurance plans
Wisconsin	OTH22	2008-2010	2008-2010	2008-2010	Employer self-funded - Alternative health care insurance plans
Wisconsin	OTH32	2008-2010	2008-2010	2008-2010	Other organization self-funded - Alternative health care insurance plans
Wisconsin	nnn02, where nnn is a 3-digit code	2008-2010	2008-2010	2008-2010	Blue Cross - Alternative health care insurance plans
Wisconsin	BCS02	2008-2010	2008-2010	2008-2010	Blue Cross - Alternative health care insurance plans
Wisconsin	OTH12	2011–2012	2011–2012	2011–2012	Commercial or private insurance - HMO or PPO
Wisconsin	OTH22	2011–2012	2011–2012	2011–2012	Employer self-funded - HMO or PPO
Wisconsin	OTH32	2011–2012	2011–2012	2011–2012	Other organization self-funded - HMO or PPO

<b>State</b>	<b>PAY1_X Source Value (Unless Noted)</b>	<b>SID Years</b>	<b>SASD Years</b>	<b>SEDD Years</b>	<b>Source Description</b>
West Virginia	PAYER1_X = First digit of 4, 5, or 6 and third digit of 3, 4, or 5	2008–2012	N/A	N/A	WV reports a four-digit payer code in PAYERn_X. The first digit indicates the types of payer with the following values: (4) commercial, (5) nonprofit, and (6) employer or union. The second digit indicates the payment program. The third digit indicates the payment modality with the values: (3) point of service, (4) HMO, and (5) other managed care. The fourth digit include information on the HMO using the following values: (0) none, (1) Acordia, (2) Advantage, (3) Carelink, (4) Coventry Health plan, (5) Health Plan of Upper Ohio Valley, (6) Optimum Choice, (8) unknown, and (9) not elsewhere classified Choice, (8) unknown, and (9) not elsewhere classified
Wyoming	H	2008–2012	N/A	N/A	Managed Care (HMO/PPO)

**SUPPLEMENT 3. HCUP STATE-SPECIFIC RECODES FOR MEDICAID TO ALIGN HCUP WITH THE AMERICAN COMMUNITY SURVEY**

The following table includes State-specific recodes for Medicaid to align HCUP payer codes with the American Community Survey (ACS) category. The information can be reported in either the expected primary payer as received from the State (HCUP data element PAY1\_X) or the expected primary payer plan identifier as received from the State (HCUP data element PAYER1\_X). Effective dates for coding are specified by the HCUP database: State Inpatient Databases (SID), State Ambulatory Surgery and Services Databases (SASD), and State Emergency Department Databases (SEDD). If a State is not listed, then it does not separately report Medicaid programs like the Children’s Health Insurance Program (CHIP).

**Table 3A. State-Specific Recodes for Medicaid to Align HCUP Payer Codes with the American Community Survey (ACS)**

State	PAY1_X Source Value (Unless Noted)	SID Years	SASD Years	SEDD Years	Source Description	Recode to
Arizona	08	2008–2012	N/A	N/A	Children’s Rehab Services	Medicaid
Florida	0	2010–2012	2010–2012	2010–2012	KidCare	CHIP program to Medicaid
Florida	0	2008–2009	2008–2009	2008–2009	KidCare (Healthy Kids, MediKids, and Children’s Medical Services)	CHIP program to Medicaid
Georgia	361	2008–2012	2008–2012	2008–2012	State SCHIP Program	CHIP program to Medicaid (CHIP code not used in 2011 data)
Kansas	103	2008–2012	2008–2012	2008–2012	HealthWave/ Health Connect Managed Care - Kansas’ State Children’s Health Insurance Program (SCHIP)	CHIP program to Medicaid
Minnesota	4000500	2010–2012	2010–2012	2010–2012	General Assistance Medical Care (GAMC)/GA/Welfare	Medicaid
Minnesota	4000800	2010–2012	2010–2012	2010–2012	PrimeWest, Cty Based Purchased	Medicaid managed care
Minnesota	4000900	2010–2012	2010–2012	2010–2012	Itasca Medical Care, CBP	Medicaid managed care
Minnesota	4001000	2010–2012	2010–2012	2010–2012	So. Country Hlth Alliance, CBP	Medicaid managed care
Minnesota	7000103	2010–2012	2010–2012	2010–2012	Medica - Choice, GAMC	Medicaid

<b>State</b>	<b>PAY1_X Source Value (Unless Noted)</b>	<b>SID Years</b>	<b>SASD Years</b>	<b>SEDD Years</b>	<b>Source Description</b>	<b>Recode to</b>
Minnesota	7000303	2010–2012	2010–2012	2010–2012	Ramsey Care, GAMC, etc.	Medicaid
Minnesota	7000603	2010–2012	2010–2012	2010–2012	Ucare, GAMC, etc.	Medicaid
Minnesota	7000703	2010–2012	2010–2012	2010–2012	Blue Plus, GAMC, etc.	Medicaid
Minnesota	7000803	2010–2012	2010–2012	2010–2012	Metro. Health Plan, GAMC, etc.	Medicaid
Minnesota	7001003	2010–2012	2010–2012	2010–2012	Health Partners, GAMC, etc.	Medicaid
Minnesota	7009903	2010–2012	2010–2012	2010–2012	Other HMO, GAMC/GA/Welfare	Medicaid
Tennessee	12	2008–2012	2008–2012	2008–2012	Cover Kids	CHIP program to Medicaid
Utah	13	2008–2012	2008–2012	2008–2012	Children's Health Insurance Plan (CHIP)	CHIP program to Medicaid
West Virginia	28	2008–2012	N/A	N/A	WV Children's Health Insurance Program (CHIP)	CHIP program to Medicaid
Wisconsin	BGR01	2008–2012	2008-2010	2008-2010	Badger Care - Fee for service	Medicaid
Wisconsin	BGR02	2008–2012	2008-2010	2008-2010	Badger Care - Alternative health care insurance plans (HMO, PPO, PPA, etc.)	Medicaid
Wisconsin	BGR09	2008–2012	2008-2010	2008-2010	Badger Care - type unknown	Medicaid