TECHNICAL SUPPLEMENT 13: HCUP DATA QUALITY TABLE

This Technical Supplement provides information on the results of edit checks performed on the Nationwide Inpatient Sample. For details on these edit checks, refer to Technical Supplement: Quality Control in HCUP Data Processing.

HCUP DATA QUALITY TABLE

HCUP DATA QUALITY TABLE NIS 1989-1997 INPATIENT DATA

Description	Edit Checks	1989	1990	1991	1992	1993	1994	1995	1996	1997
		Number of I	lospitals and	Discharges						
Total Number of Ho	ospitals	882 (100.00%)	871 (100.00%)	859 (100.00%)	856 (100.00%)	913 (100.00%)	904 (100.00%)	938 (100.00%)	906 (100.00%)	1,012 (100.00%)
Total Discharges		6,110,064 (100.00%)	6,268,515 (100.00%)	6,156,188 (100.00%)	6,195,744 (100.00%)	6,538,976 (100.00%)	6,385,011 (100.00%)	6,714,935 (100.00%)	6,542,069 (100.00%)	7,148,420 (100.00%)
		Overali [Data Quality l	ndicators						
Failed any edit or validity check	ED010-ED952, DXV1-DXV30=1 or PRV1-PRV25=1	227,284 (3.72%)	140,895 (2.25%)	151,976 (2.47%)	285,492 (4.61%)	184,701 (2.82%)	267,238 (4.19%)	349,457 (5.20%)	327,577 (5.01%)	370,673 (5.19%)
Failed any edit check	ED010-ED952	185,412 (3.03%)	135,766 (2.17%)	135,923 (2.21%)	275,382 (4.44%)	141,776 (2.17%)	241,805 (3.79%)	340,702 (5.07%)	318,095 (4.86%)	352,071 (4.93%)
			Edit Checks							
Reported LOS not equal to calculated LOS	ED010	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2,585 (0.04%)	0 (0.00%)	0 (0.00%)	1 (0.00%)	203 (0.00%)

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Description	Edit Checks	1989	1990	1991	1992	1993	1994	1995	1996	1997
Admission date after discharge date	ED011	13 (0.00%)	(0.00%)	(0.00%)	20 (0.00%)	78 (0.00%)	152 (0.00%)	74 (0.00%)	14 (0.00%)	21 (0.00%)
Reported AGE not equal to calculated AGE	ED020	13,625 (0.22%)	12,622 (0.20%)	12,618 (0.20%)	13,484 (0.22%)	8,110 (0.12%)	663 (0.01%)	4,350 (0.06%)	964 (0.01%)	1,375 (0.02%)
Age in years inconsistent with AGEDAY	ED021	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	18 (0.00%)	0 (0.00%)	(0.00%)
Long length of stay (LOS), justified	ED600	463 (0.01%)	370 (0.01%)	362 (0.01%)	331 (0.01%)	368 (0.01%)	294 (0.00%)	407 (0.01%)	358 (0.01%)	383 (0.01%)
Long length of stay (LOS), unjustified	ED601	55 (0.00%)	45 (0.00%)	60 (0.00%)	65 (0.00%)	(0.00%)	81 (0.00%)	82 (0.00%)	46 (0.00%)	43 (0.00%)
Low charges/day, justified	ED910	2,378 (0.04%)	1,014 (0.02%)	813 (0.01%)	1,606 (0.03%)	806 (0.01%)	2,405 (0.04%)	1,698 (0.03%)	837 (0.01%)	1,431 (0.02%)
Low charges/day, unjustified	ED911	14,979 (0.25%)	5,952 (0.09%)	4,497 (0.07%)	7,944 (0.13%)	4,370 (0.07%)	10,237 (0.16%)	8,510 (0.13%)	6,440 (0.10%)	8,700 (0.12%)
High charges/day, justified	ED920	846 (0.01%)	1,283 (0.02%)	1,620 (0.03%)	2,393 (0.04%)	2,560 (0.04%)	3,105 (0.05%)	3,675 (0.05%)	3,681 (0.06%)	4,803 (0.07%)
High charges/day, unjustified	ED921	253 (0.00%)	594 (0.01%)	815 (0.01%)	1,281 (0.02%)	2,102 (0.03%)	3,694 (0.06%)	9,716 (0.14%)	10,614 (0.16%)	16,541 (0.23%)

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HCUP DATA QUALITY TABLE NIS 1989-1997 INPATIENT DATA

Description	Edit Checks	1989	1990	1991	1992	1993	1994	1995	1996	1997
Unacceptable uniform payer combination	ED951	114,540 (1.87%)	114,019 (1.82%)	113,310 (1.84%)	121,921 (1.97%)	112,156 (1.72%)	123,998 (1.94%)	268,880 (4.00%)	290,946 (4.45%)	315,741 (4.42%)
Unacceptable non-unif payer combination	ED952	147 (0.00%)	246 (0.00%)	520 (0.01%)	304 (0.00%)	317 (0.00%)	213 (0.00%)	799 (0.01%)	1,106 (0.02%)	748 (0.01%)
	Edit Cl	necks on Diag	jnoses (DX) a	ind Procedure	es (PR)					
Principal DX inconsistent w/ age, sex	ED101, ED301, ED401	447 (0.01%)	403 (0.01%)	321 (0.01%)	268 (0.00%)	653 (0.01%)	361 (0.01%)	263 (0.00%)	198 (0.00%)	277 (0.00%)
Secondary DX inconsistent w/ age, sex	ED102-ED130, ED302-ED330, ED402-ED430	2,486 (0.04%)	1,554 (0.02%)	1,522 (0.02%)	1,526 (0.02%)	2,042 (0.03%)	2,005 (0.03%)	1,837 (0.03%)	1,589 (0.02%)	1,929 (0.03%)
Principal PR inconsistent w/ age, sex	ED201, ED501	341 (0.01%)	352 (0.01%)	251 (0.00%)	391 (0.01%)	548 (0.01%)	268 (0.00%)	225 (0.00%)	213 (0.00%)	211 (0.00%)
Secondary PR inconsistent w/ age, sex	ED202-ED225, ED502-ED525	147 (0.00%)	177 (0.00%)	137 (0.00%)	136 (0.00%)	257 (0.00%)	230 (0.00%)	125 (0.00%)	170 (0.00%)	247 (0.00%)
Day for principal PR w/o procedure coded	ED701	72 (0.00%)	12 (0.00%)	1,247 (0.02%)	14 (0.00%)	424 (0.01%)	93,819 (1.47%)	49,060 (0.73%)	1,267 (0.02%)	50 (0.00%)

HCUP DATA QUALITY TABLE NIS 1989-1997 INPATIENT DATA

Description	Edit Checks	1989	1990	1991	1992	1993	1994	1995	1996	1997
Day for principal PR not during stay	ED801	38,760 (0.63%)	593 (0.01%)	1,135 (0.02%)	127,750 (2.06%)	6,481 (0.10%)	1,036 (0.02%)	4,508 (0.07%)	820 (0.01%)	716 (0.01%)
	Validity	Checks on Di	agnoses (DX)	and Procedu	ures (PR)					31.7
Principal diagnosis invalid	DXV1=1	32,369 (0.53%)	408 (0.01%)	2,847 (0.05%)	2,618 (0.04%)	13,059 (0.20%)	5,136 (0.08%)	1,272 (0.02%)	1,340 (0.02%)	2,798 (0.04%)
Secondary diagnosis invalid	DXV2-DXV25=1	9,125 (0.15%)	1,739 (0.03%)	6,902 (0.11%)	4,705 (0.08%)	29,868 (0.46%)	18,054 (0.28%)	3,902 (0.06%)	2,753 (0.04%)	14,536 (0.20%)
Principal procedure invalid	PRV1=1	4,688 (0.08%)	491 (0.01%)	2,810 (0.05%)	1,699 (0.03%)	1,865 (0.03%)	438 (0.01%)	1,273 (0.02%)	2,032 (0.03%)	817 (0.01%)
Secondary procedure invalid	PRV2-PRV25=1	1,404 (0.02%)	2,640 (0.04%)	3,914 (0.06%)	1,524 (0.02%)	2,279 (0.03%)	2,968 (0.05%)	3,283 (0.05%)	3,888 (0.06%)	2,431 (0.03%)