

Table 7: Ratio of All MRI to All CT Scans within 30 days of Evaluation for Atraumatic Headache among Eligible Children in Seven States – MAX data

State	Ratio Components	2006	2007	2008	2009	2010
Colorado	Numerator: # MRI	129	149	191	216	231
	Denominator: # CT	369	450	468	458	512
	Ratio	0.35	0.33	0.41	0.47	0.45
Florida	Numerator: # MRI	893	894	1091	1888	2246
	Denominator: # CT	2052	1860	2307	4042	4144
	Ratio	0.44	0.48	0.47	0.47	0.54
Illinois	Numerator: # MRI	1213	1217	1389	1707	1917
	Denominator: # CT	4470	4830	5416	6310	6095
	Ratio	0.27	0.25	0.26	0.27	0.31
Massachusetts	Numerator: # MRI	258	266	250	301	122
	Denominator: # CT	514	478	434	503	211
	Ratio	0.50	0.56	0.58	0.60	0.58
Michigan	Numerator: # MRI	255	589	1117	1428	1601
	Denominator: # CT	555	1978	3269	3402	3272
	Ratio	0.46	0.30	0.34	0.42	0.49
Texas	Numerator: # MRI	1175	1316	1503	1789	1972
	Denominator: # CT	3187	3600	3793	4776	5036
	Ratio	0.37	0.37	0.40	0.37	0.39
Utah	Numerator: # MRI	47	44	68	89	84
	Denominator: # CT	114	130	154	133	125
	Ratio	0.41	0.34	0.44	0.67	0.67

Note: The rate for this measure, the ratio of all MRI to all CT scans among children ages 1 through 17 years old who undergo imaging of the head on or within 30 days after the date of evaluation for atraumatic headache, was calculated using 5 consecutive years of claims data drawn from Medicaid Analytic eXtract (MAX) administrative claims data provided by the Centers for Medicare & Medicaid Services (CMS).

Table 8. State Medicaid Plan Reliability for Measure

State Medicaid Program	Number of MRIs	Number of CTs + MRIs	Reliability
Colorado	916	3173	0.97
Florida	7012	21417	0.99
Illinois	7443	34564	1.00
Massachusetts	1197	3337	0.97
Michigan	4990	17466	0.99
Texas	7755	28147	1.00
Utah	332	988	0.90
Median (range)			0.99 (0.90-1.00)

Table 9: Contingency Table for Presence of Exclusions in Administrative Claims and Charts for Children with at Least 1 MRI Scan within the Measurement Year

		Exclusion Documented in Charts		
		Present	Absent	Total
Exclusion present based on claims	Present	2	2	4
	Absent	16	46	62
	Total	18	48	66

Table 10: Contingency Table for Presence of Exclusions in Administrative Claims and Charts for Children with at Least 1 CT Scan within the Measurement Year

		Exclusion Documented in Charts		
		Present	Absent	Total
Exclusion present based on claims	Present	23	4	27
	Absent	33	64	97
	Total	56	68	124

