Medicaid Analytic Extract Provider Characteristics (MAXPC)

State-Specific Validation Tables, 2010

Illinois

May 31, 2013

Deo Bencio
Mei-ling Mason

MATHEMATICA
Policy Research

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(MAXPC)**

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ACRONYMS

CMS	Centers for Medicare & Medicaid Services
CY	Calendar year
FY	Federal fiscal year
HIPAA	Health Insurance Portability and Accountability Act
ID	Identification/identifier
IP	Inpatient
LT	Long-term care
MAX	Medicaid Analytic Extract
MAXPC	MAX Provider Characteristics File
MSIS	Medicaid Statistical Information System
NPI	National Provider Identifier
NPPES	National Plan and Provider Enumeration System
OT	Other services
RX	Drug
UPIN	Unique Physician Identification Number

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INTRODUCTION

The Medicaid Statistical Information System (MSIS) files and the corresponding research-friendly Medicaid Analytic Extract (MAX) files support a wide range of studies on Medicaid enrollment, service use, and expenditures. There is currently considerable interest at the Centers for Medicare & Medicaid Services (CMS) in also examining health reform proposals, program integrity, and access-to-care issues among certain types of Medicaid providers. However, it has not been possible to easily conduct provider-based research activities because the provider identification numbers collected in MSIS are largely unedited, undocumented, and state specific.

The advent of the Health Insurance Portability and Accountability Act (HIPAA) mandated covered entities such as health care providers, health plans, and health care clearinghouses to obtain and use a National Provider Identifier (NPI) in all administrative and financial HIPAA transactions.[1] The NPI is a unique 10-digit, sequentially assigned national identification number, unstructured so as not to carry any way information such as the state or medical specialty of the health care provider who "owns" the identifier. Beginning in February 2009, states were required to include NPIs on claims submitted to MSIS. The main limitation of this identifier, however, is that certain classes of nonmedical providers are not required to obtain an NPI. Nonetheless, the availability of the NPI on MSIS claims makes the development of a uniform provider characteristic file more feasible. The MAX Provider Characteristics (MAXPC) file is such a file.

Once the state's MAXPC file is created, validation tables are produced. Validation tables are designed as a diagnostic tool to determine whether linkages are working in the expected manner and consist of a set of seven tables. The first six tables focus on provider ID types in the IP, LT, OT, and RX files. These provider types are: IP billing, LT billing, OT servicing, OT billing, RX billing, and RX prescribing provider IDs. The seventh table examines all provider IDs in all of the files. Each file-specific validation table is used to detect linkage issues that are peculiar to a given file type. The all-provider table is used to monitor the overall quality of the linkages of all provider IDs. The design of the validation tables is very similar across file types. The measures are grouped into seven sections as denoted by the shaded rows. The first section describes measures for each unique provider in the file. The second section focuses on the source of NPIs. The third section focuses on provider IDs that link to NPPES, followed by a section for provider IDs that link to state provider files. The fifth section focuses on the primary taxonomy of providers that link to NPPES. Among providers, taxonomies are classified into two groups: (1) individuals or groups of individuals, and (2) nonindividuals. The sixth section focuses on individual providers showing their sole proprietorship status. Finally, the seventh section focuses on provider organizations and their ownership status.

The columns in the state-specific tables describe the annual statistics for up to three years, followed by a column describing the percentage change between year one and year two, the

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[1] CMS. "National Provider Identifier (NPI) Overview." Available at http://www.cms.gov/nationalProvIdentstand/.

percentage change between year two and year three, if applicable, followed by the expected range of values across years, and finally, an indicator showing whether the percentage change between the two most recent years being compared is within the expected range.

The primary source of data used in the MAXPC 2010 files were the MSIS Valid claims files. The following measures in the MAXPC file were derived from original, unadjusted claims:

- Number of IP Claims for Provider

- Number of Beneficiaries with IP Claims for Provider

- Number of LT Claims for Provider

- Number of Beneficiaries with LT Claims for Provider

- Number of OT Claims for Provider

- Number of Beneficiaries with OT Claims for Provider

- Number of RX Claims for provider

- Number of Beneficiaries with RX Claims for Provider.

2009-2010 MAX IP Billing Provider Characteristics Validation Table
State: IL
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
IP Providers					
Number of provider IDs	1,349	1,277	-5.34	30% (+/-)	Yes
% billing provider on IP claim	45.7	45.1	-1.38	N/A	N/A
% NPI billing provider on IP claim	54.3	54.9	1.16	N/A	N/A
% also a provider on LT claim	0.7	0.9	16.19	N/A	N/A
% also a provider on OT claim	88.9	90.8	2.11	N/A	N/A
% also a provider on RX claim	13.1	13.0	-0.93	N/A	N/A
% provider IDs with NPI	91.0	90.8	-0.22	30% (+/-)	Yes
% provider IDs linked to NPPES	91.0	90.8	-0.22	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of IP claims	674.5	707.6	4.91	30% (+/-)	Yes
average number of beneficiaries with IP claims	487.0	511.6	5.05	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	1,227	1,159	-5.54	30% (+/-)	Yes
% NPI source = MSIS	100.0	100.0	0.00	30% (+/-)	Yes
% NPI source = NPPES	0.0	0.0	Div by 0	30% (+/-)	N/A
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	1,227	1,159	-5.54	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.0	0.0	Div by 0	30% (+/-)	N/A
% with first name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with middle name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with last name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.0	0.0	Div by 0	30% (+/-)	N/A
% female	0.0	0.0	Div by 0	30% (+/-)	N/A
% with credential	0.0	0.0	Div by 0	30% (+/-)	N/A
% with business name	100.0	99.9	-0.09	30% (+/-)	Yes
% with address line 1	100.0	99.9	-0.09	30% (+/-)	Yes
% with city	100.0	99.9	-0.09	30% (+/-)	Yes
% with state	100.0	99.9	-0.09	30% (+/-)	Yes
% state = IP state code	34.7	36.4	4.87	30% (+/-)	Yes
% with zip code	100.0	99.9	-0.09	30% (+/-)	Yes
% with primary taxonomy	99.5	99.2	-0.29	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	99.9	-0.09	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	1,221	1,150	-5.81	30% (+/-)	Yes
% individual or group of individuals	0.1	0.2	112.20	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.0	0.1	Div by 0	30% (+/-)	N/A
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

[a] "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

2009-2010 MAX IP Billing Provider Characteristics Validation Table
State: IL
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.1	0.1	6.10	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	99.9	99.8	-0.09	30% (+/-)	Yes
% agencies	0.0	0.0	Div by 0	30% (+/-)	N/A
% ambulatory health care facilities	0.2	0.3	6.10	30% (+/-)	Yes
% hospital units	8.4	8.8	4.11	30% (+/-)	Yes
% hospitals	91.0	90.3	-0.80	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.2	0.3	41.46	30% (+/-)	Yes
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.0	0.2	Div by 0	30% (+/-)	N/A
% transportation services	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	0	0	Div by 0	30% (+/-)	N/A
% a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not answered	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	1,227	1,158	-5.62	30% (+/-)	Yes
% organization is a subpart	10.9	10.7	-1.95	30% (+/-)	Yes
% organization is not a subpart	72.8	78.3	7.62	30% (+/-)	Yes
% not answered	16.3	11.0	-32.72	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

[a] "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

2009-2010 MAX LT Billing Provider Characteristics Validation Table
State: IL
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
LT Providers					
Number of provider IDs	2,216	2,296	3.61	30% (+/-)	Yes
% billing provider on LT claim	41.6	42.1	1.12	N/A	N/A
% NPI billing provider on LT claim	58.4	57.9	-0.80	N/A	N/A
% also a provider on IP claim	0.5	0.5	6.21	N/A	N/A
% also a provider on OT claim	47.6	50.0	5.12	N/A	N/A
% also a provider on RX claim	0.7	0.7	-9.56	N/A	N/A
% provider IDs with NPI	71.1	66.5	-6.43	30% (+/-)	Yes
% provider IDs linked to NPPES	71.1	66.5	-6.43	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of LT claims	912.6	851.1	-6.74	30% (+/-)	Yes
average number of beneficiaries with LT claims	98.9	99.9	1.08	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	1,575	1,527	-3.05	30% (+/-)	Yes
% NPI source = MSIS	100.0	100.0	0.00	30% (+/-)	Yes
% NPI source = NPPES	0.0	0.0	Div by 0	30% (+/-)	N/A
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	1,575	1,527	-3.05	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.0	0.0	Div by 0	30% (+/-)	N/A
% with first name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with middle name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with last name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.0	0.0	Div by 0	30% (+/-)	N/A
% female	0.0	0.0	Div by 0	30% (+/-)	N/A
% with credential	0.0	0.0	Div by 0	30% (+/-)	N/A
% with business name	100.0	100.0	0.00	30% (+/-)	Yes
% with address line 1	100.0	100.0	0.00	30% (+/-)	Yes
% with city	100.0	100.0	0.00	30% (+/-)	Yes
% with state	100.0	100.0	0.00	30% (+/-)	Yes
% state = LT state code	98.5	98.4	-0.11	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	96.8	97.4	0.71	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	100.0	0.00	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	1,524	1,488	-2.36	30% (+/-)	Yes
% individual or group of individuals	0.0	0.0	Div by 0	30% (+/-)	N/A
% allopathic and osteopathic physicians	0.0	0.0	Div by 0	30% (+/-)	N/A
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

[a] "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

2009-2010 MAX LT Billing Provider Characteristics Validation Table
State: IL
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	100.0	100.0	0.00	30% (+/-)	Yes
% agencies	3.3	3.2	-3.59	30% (+/-)	Yes
% ambulatory health care facilities	0.2	0.2	2.54	30% (+/-)	Yes
% hospital units	1.8	1.9	6.21	30% (+/-)	Yes
% hospitals	2.3	2.4	5.31	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.2	0.3	36.55	30% (+/-)	Yes
% nursing and custodial care facilities	76.9	81.0	5.30	30% (+/-)	Yes
% residential treatment facilities	10.7	11.0	2.41	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	4.3	0.1	-98.43	30% (+/-)	Yes
% transportation services	0.3	0.0	-100.00	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	0	0	Div by 0	30% (+/-)	N/A
% a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not answered	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	1,575	1,527	-3.05	30% (+/-)	Yes
% organization is a subpart	11.0	11.6	5.53	30% (+/-)	Yes
% organization is not a subpart	41.1	48.3	17.49	30% (+/-)	Yes
% not answered	47.9	40.1	-16.26	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

[a] "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
OT Providers					
Number of provider IDs	141,590	147,362	4.08	30% (+/-)	Yes
% billing provider on OT claim	0.0	0.0	Div by 0	N/A	N/A
% servicing provider on OT claim	65.3	65.1	-0.35	N/A	N/A
% NPI servicing provider on OT claim	34.7	34.9	0.65	N/A	N/A
% also a provider on IP claim	0.4	0.4	-6.47	N/A	N/A
% also a provider on LT claim	0.5	0.5	8.70	N/A	N/A
% also a provider on RX claim	22.8	23.0	1.07	N/A	N/A
% provider IDs with NPI	69.2	69.7	0.75	30% (+/-)	Yes
% provider IDs linked to NPPES	69.0	69.7	1.00	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of OT claims	1,054.8	1,052.6	-0.21	30% (+/-)	Yes
average number of beneficiaries with OT claims	223.4	227.7	1.95	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	97,945	102,704	4.86	30% (+/-)	Yes
% NPI source = MSIS	99.9	99.9	0.01	30% (+/-)	Yes
% NPI source = NPPES	0.1	0.1	-10.84	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	97,697	102,693	5.11	30% (+/-)	Yes
% linked via NPI	99.9	99.9	0.01	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.1	0.1	-10.84	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	37.2	38.5	3.41	30% (+/-)	Yes
% with first name	81.1	81.5	0.48	30% (+/-)	Yes
% with middle name	55.0	55.7	1.31	30% (+/-)	Yes
% with last name	81.1	81.5	0.48	30% (+/-)	Yes
% with name suffix	1.5	1.5	0.07	30% (+/-)	Yes
% male	52.1	51.4	-1.41	30% (+/-)	Yes
% female	29.0	30.2	3.88	30% (+/-)	Yes
% with credential	78.3	79.0	0.82	30% (+/-)	Yes
% with business name	18.9	18.1	-4.08	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.38	30% (+/-)	Yes
% with city	100.0	99.6	-0.38	30% (+/-)	Yes
% with state	100.0	99.6	-0.38	30% (+/-)	Yes
% state = OT state code	75.3	73.7	-2.13	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.38	30% (+/-)	Yes
% with primary taxonomy	98.9	98.1	-0.80	30% (+/-)	Yes
% with provider entity type = individual	81.1	81.5	0.48	30% (+/-)	Yes
% with provider entity type = organization	18.9	18.1	-4.08	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	96,736	100,714	4.11	30% (+/-)	Yes
% individual or group of individuals	81.2	82.5	1.64	30% (+/-)	Yes
% allopathic and osteopathic physicians	63.9	63.0	-1.27	30% (+/-)	Yes

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

[a] "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

2009-2010 MAX OT Servicing Provider Characteristics Validation Table
State: IL
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% behavioral health and social service providers	0.1	0.2	87.38	30% (+/-)	Yes
% chiropractic providers	1.0	1.0	-7.08	30% (+/-)	Yes
% dental providers	2.5	3.7	48.18	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	-100.00	30% (+/-)	Yes
% emergency medical service providers	0.1	0.0	-30.00	30% (+/-)	Yes
% eye and vision service providers	1.7	1.7	1.26	30% (+/-)	Yes
% nursing service providers	0.1	0.1	79.45	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	1.2	1.8	52.18	30% (+/-)	Yes
% pharmacy service providers	0.3	0.1	-76.98	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	4.9	6.2	26.34	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.2	1.2	1.04	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	2.2	2.2	0.09	30% (+/-)	Yes
% speech, language, and hearing service providers	0.9	1.0	5.29	30% (+/-)	Yes
% student health care	0.1	0.3	108.05	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	20.59	30% (+/-)	Yes
% group of individuals with multi- or single specialty	1.0	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	18.8	17.5	-7.06	30% (+/-)	Yes
% agencies	1.3	2.8	114.96	30% (+/-)	Yes
% ambulatory health care facilities	4.7	2.4	-49.56	30% (+/-)	Yes
% hospital units	0.1	0.1	-16.67	30% (+/-)	Yes
% hospitals	3.4	2.8	-19.33	30% (+/-)	Yes
% laboratories	0.4	0.5	2.45	30% (+/-)	Yes
% managed care organizations	0.0	0.0	-43.33	30% (+/-)	Yes
% nursing and custodial care facilities	1.0	1.1	13.19	30% (+/-)	Yes
% residential treatment facilities	0.1	0.3	183.19	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	6.3	6.2	-2.40	30% (+/-)	Yes
% transportation services	1.4	1.4	-3.05	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	79,278	83,736	5.62	30% (+/-)	Yes
% a sole proprietorship	14.7	15.7	7.28	30% (+/-)	Yes
% not a sole proprietorship	74.5	76.7	3.01	30% (+/-)	Yes
% not answered	10.8	7.5	-30.53	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	18,419	18,571	0.83	30% (+/-)	Yes
% organization is a subpart	18.9	19.4	2.60	30% (+/-)	Yes
% organization is not a subpart	57.6	62.9	9.16	30% (+/-)	Yes
% not answered	23.5	17.7	-24.57	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

[a] "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

2009-2010 MAX OT Billing Provider Characteristics Validation Table
State: IL
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
OT Providers					
Number of provider IDs	18,057	16,683	-7.61	30% (+/-)	Yes
% billing provider on OT claim	100.0	100.0	0.00	N/A	N/A
% servicing provider on OT claim	0.0	0.0	Div by 0	N/A	N/A
% NPI servicing provider on OT claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on IP claim	3.1	3.2	3.64	N/A	N/A
% also a provider on LT claim	2.0	2.2	9.42	N/A	N/A
% also a provider on RX claim	3.9	3.8	-2.58	N/A	N/A
% provider IDs with NPI	6.5	6.4	-2.68	30% (+/-)	Yes
% provider IDs linked to NPPES	6.5	6.4	-2.44	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of OT claims	5,878.9	6,771.9	15.19	30% (+/-)	Yes
average number of beneficiaries with OT claims	780.6	848.9	8.74	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	1,179	1,060	-10.09	30% (+/-)	Yes
% NPI source = MSIS	99.7	99.7	0.06	30% (+/-)	Yes
% NPI source = NPPES	0.3	0.3	-16.52	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	1,176	1,060	-9.86	30% (+/-)	Yes
% linked via NPI	99.7	99.7	0.06	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.3	0.2	-25.88	30% (+/-)	Yes
% linked via Medicare UPIN	0.1	0.1	10.59	30% (+/-)	Yes
% with name prefix	0.3	0.4	10.88	30% (+/-)	Yes
% with first name	0.4	0.5	11.06	30% (+/-)	Yes
% with middle name	0.3	0.4	10.88	30% (+/-)	Yes
% with last name	0.4	0.5	11.06	30% (+/-)	Yes
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.3	0.3	10.98	30% (+/-)	Yes
% female	0.2	0.2	11.18	30% (+/-)	Yes
% with credential	0.3	0.4	10.88	30% (+/-)	Yes
% with business name	99.6	99.3	-0.24	30% (+/-)	Yes
% with address line 1	100.0	99.8	-0.19	30% (+/-)	Yes
% with city	100.0	99.8	-0.19	30% (+/-)	Yes
% with state	100.0	99.8	-0.19	30% (+/-)	Yes
% state = OT state code	65.2	62.3	-4.53	30% (+/-)	Yes
% with zip code	100.0	99.8	-0.19	30% (+/-)	Yes
% with primary taxonomy	99.1	97.6	-1.44	30% (+/-)	Yes
% with provider entity type = individual	0.4	0.5	11.06	30% (+/-)	Yes
% with provider entity type = organization	99.6	99.3	-0.24	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	1,168	1,035	-11.39	30% (+/-)	Yes
% individual or group of individuals	49.5	3.2	-93.56	30% (+/-)	No
% allopathic and osteopathic physicians	0.0	0.0	Div by 0	30% (+/-)	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

[a] "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

2009-2010 MAX OT Billing Provider Characteristics Validation Table
State: IL
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	49.4	3.1	-93.74	30% (+/-)	No
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.1	0.1	12.79	30% (+/-)	Yes
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	50.5	96.8	91.65	30% (+/-)	No
% agencies	0.3	1.2	350.97	30% (+/-)	Yes
% ambulatory health care facilities	0.2	0.1	-43.27	30% (+/-)	Yes
% hospital units	0.3	0.2	-43.57	30% (+/-)	Yes
% hospitals	38.6	41.8	8.35	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	7.7	7.9	2.83	30% (+/-)	Yes
% residential treatment facilities	1.8	1.6	-8.62	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	1.5	44.0	2,752.76	30% (+/-)	No
% transportation services	0.1	0.0	-100.00	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	5	5	0.00	30% (+/-)	Yes
% a sole proprietorship	60.0	60.0	0.00	30% (+/-)	Yes
% not a sole proprietorship	40.0	40.0	0.00	30% (+/-)	Yes
% not answered	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	1,171	1,053	-10.08	30% (+/-)	Yes
% organization is a subpart	10.2	10.9	6.57	30% (+/-)	Yes
% organization is not a subpart	70.5	75.7	7.30	30% (+/-)	Yes
% not answered	19.2	13.4	-30.31	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

[a] "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

2009-2010 MAX RX Billing Provider Characteristics Validation Table
State: IL
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
RX Providers					
Number of provider IDs	3,760	3,774	0.37	30% (+/-)	Yes
% billing provider on RX claim	27.0	26.6	-1.35	N/A	N/A
% prescribing provider on RX claim	0.3	0.7	99.13	N/A	N/A
% NPI billing provider on RX claim	73.0	73.4	0.50	N/A	N/A
% also a provider on IP claim	0.9	1.0	5.53	N/A	N/A
% also a provider on LT claim	0.1	0.1	-33.75	N/A	N/A
% also a provider on OT claim	74.5	72.1	-3.18	N/A	N/A
% provider IDs with NPI	96.5	96.7	0.18	30% (+/-)	Yes
% provider IDs linked to NPPES	96.0	96.7	0.71	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of RX claims	13,436.3	13,992.4	4.14	30% (+/-)	Yes
average number of beneficiaries with RX claims	1,445.9	1,480.8	2.41	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	3,628	3,648	0.55	30% (+/-)	Yes
% NPI source = MSIS	100.0	100.0	0.00	30% (+/-)	Yes
% NPI source = NPPES	0.0	0.0	Div by 0	30% (+/-)	N/A
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	3,609	3,648	1.08	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.3	0.3	-1.08	30% (+/-)	Yes
% with first name	0.6	0.5	-13.97	30% (+/-)	Yes
% with middle name	0.5	0.4	-18.47	30% (+/-)	Yes
% with last name	0.6	0.5	-13.97	30% (+/-)	Yes
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.5	0.4	-18.47	30% (+/-)	Yes
% female	0.2	0.2	-1.20	30% (+/-)	Yes
% with credential	0.6	0.5	-19.18	30% (+/-)	Yes
% with business name	99.4	98.8	-0.52	30% (+/-)	Yes
% with address line 1	100.0	99.4	-0.60	30% (+/-)	Yes
% with city	100.0	99.4	-0.60	30% (+/-)	Yes
% with state	100.0	99.4	-0.60	30% (+/-)	Yes
% state = RX state code	83.3	82.2	-1.40	30% (+/-)	Yes
% with zip code	100.0	99.4	-0.60	30% (+/-)	Yes
% with primary taxonomy	99.3	97.9	-1.48	30% (+/-)	Yes
% with provider entity type = individual	0.6	0.5	-13.97	30% (+/-)	Yes
% with provider entity type = organization	99.4	98.8	-0.52	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	3,597	3,570	-0.75	30% (+/-)	Yes
% individual or group of individuals	46.8	3.6	-92.28	30% (+/-)	No
% allopathic and osteopathic physicians	0.0	0.1	300.00	30% (+/-)	Yes

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

[a] "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

2009-2010 MAX RX Billing Provider Characteristics Validation Table
State: IL
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	46.8	3.5	-92.51	30% (+/-)	No
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	53.2	96.4	81.14	30% (+/-)	No
% agencies	0.2	0.6	152.25	30% (+/-)	Yes
% ambulatory health care facilities	0.0	0.1	300.00	30% (+/-)	Yes
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	0.3	0.4	45.60	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.0	0.1	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	52.7	95.3	80.79	30% (+/-)	No
% transportation services	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	23	20	-13.04	30% (+/-)	Yes
% a sole proprietorship	69.6	80.0	15.00	30% (+/-)	Yes
% not a sole proprietorship	30.4	20.0	-34.29	30% (+/-)	No
% not answered	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	3,586	3,606	0.56	30% (+/-)	Yes
% organization is a subpart	31.4	31.4	0.15	30% (+/-)	Yes
% organization is not a subpart	57.6	60.3	4.70	30% (+/-)	Yes
% not answered	11.1	8.3	-24.86	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

[a] "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

2009-2010 MAX RX Prescribing Provider Characteristics Validation Table
State: IL
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
RX Providers					
Number of provider IDs	112,184	105,095	-6.32	30% (+/-)	Yes
% billing provider on RX claim	0.0	0.0	Div by 0	N/A	N/A
% prescribing provider on RX claim	100.0	100.0	0.00	N/A	N/A
% NPI billing provider on RX claim	0.0	0.0	108.33	N/A	N/A
% also a provider on IP claim	0.1	0.1	-3.08	N/A	N/A
% also a provider on LT claim	0.0	0.0	0.00	N/A	N/A
% also a provider on OT claim	26.9	30.3	12.74	N/A	N/A
% provider IDs with NPI	27.0	30.4	12.78	30% (+/-)	Yes
% provider IDs linked to NPPES	26.9	30.4	13.05	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of RX claims	226.5	253.5	11.94	30% (+/-)	Yes
average number of beneficiaries with RX claims	42.1	45.8	8.84	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	30,239	31,948	5.65	30% (+/-)	Yes
% NPI source = MSIS	99.9	99.9	-0.04	30% (+/-)	Yes
% NPI source = NPPES	0.1	0.1	38.68	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	30,166	31,947	5.90	30% (+/-)	Yes
% linked via NPI	99.9	99.9	-0.04	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.1	0.1	11.32	30% (+/-)	Yes
% linked via Medicare UPIN	0.1	0.1	66.04	30% (+/-)	Yes
% with name prefix	46.5	47.8	2.84	30% (+/-)	Yes
% with first name	98.6	98.4	-0.23	30% (+/-)	Yes
% with middle name	65.8	66.2	0.62	30% (+/-)	Yes
% with last name	98.6	98.4	-0.23	30% (+/-)	Yes
% with name suffix	1.8	1.8	0.39	30% (+/-)	Yes
% male	65.0	63.4	-2.43	30% (+/-)	Yes
% female	33.6	35.0	4.02	30% (+/-)	Yes
% with credential	95.9	95.8	-0.11	30% (+/-)	Yes
% with business name	1.4	1.2	-11.80	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.39	30% (+/-)	Yes
% with city	100.0	99.6	-0.39	30% (+/-)	Yes
% with state	100.0	99.6	-0.39	30% (+/-)	Yes
% state = RX state code	82.0	79.5	-3.08	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.39	30% (+/-)	Yes
% with primary taxonomy	98.8	98.3	-0.53	30% (+/-)	Yes
% with provider entity type = individual	98.6	98.4	-0.23	30% (+/-)	Yes
% with provider entity type = organization	1.4	1.2	-11.80	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	29,845	31,393	5.19	30% (+/-)	Yes
% individual or group of individuals	97.7	98.8	1.19	30% (+/-)	Yes
% allopathic and osteopathic physicians	82.9	80.8	-2.58	30% (+/-)	Yes

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

[a] "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

2009-2010 MAX RX Prescribing Provider Characteristics Validation Table
State: IL
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% behavioral health and social service providers	0.1	0.1	-40.17	30% (+/-)	Yes
% chiropractic providers	0.1	0.0	-30.00	30% (+/-)	Yes
% dental providers	3.8	5.5	44.26	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	-100.00	30% (+/-)	Yes
% emergency medical service providers	0.1	0.0	-30.00	30% (+/-)	Yes
% eye and vision service providers	2.2	2.4	5.66	30% (+/-)	Yes
% nursing service providers	0.1	0.1	31.43	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	1.6	2.4	50.44	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	-85.00	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	4.1	5.4	30.74	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.7	1.7	0.24	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.1	0.1	9.16	30% (+/-)	Yes
% speech, language, and hearing service providers	0.1	0.0	-24.00	30% (+/-)	Yes
% student health care	0.2	0.4	81.78	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	-40.00	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.6	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	2.3	1.2	-50.15	30% (+/-)	Yes
% agencies	0.1	0.1	-49.53	30% (+/-)	Yes
% ambulatory health care facilities	0.7	0.4	-43.65	30% (+/-)	Yes
% hospital units	0.1	0.1	-4.48	30% (+/-)	Yes
% hospitals	1.3	0.5	-62.77	30% (+/-)	Yes
% laboratories	0.0	0.0	-70.00	30% (+/-)	Yes
% managed care organizations	0.0	0.0	0.00	30% (+/-)	Yes
% nursing and custodial care facilities	0.0	0.0	2.94	30% (+/-)	Yes
% residential treatment facilities	0.0	0.0	-100.00	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.1	0.1	64.06	30% (+/-)	Yes
% transportation services	0.0	0.0	-76.92	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	29,757	31,441	5.66	30% (+/-)	Yes
% a sole proprietorship	16.0	17.0	6.34	30% (+/-)	Yes
% not a sole proprietorship	73.1	75.8	3.70	30% (+/-)	Yes
% not answered	11.0	7.2	-33.92	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	409	382	-6.60	30% (+/-)	Yes
% organization is a subpart	11.0	14.1	28.49	30% (+/-)	Yes
% organization is not a subpart	61.9	66.8	7.91	30% (+/-)	Yes
% not answered	27.1	19.1	-29.58	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

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2009-2010 MAX All Provider Characteristics Validation Table
State: IL
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
All Providers					
Number of provider IDs	243,893	239,556	-1.78	30%(+/-)	Yes
% billing provider on IP claim	0.3	0.2	-5.14	N/A	N/A
% NPI billing provider on IP claim	0.3	0.3	-2.33	N/A	N/A
% billing provider on LT claim	0.4	0.4	6.61	N/A	N/A
% NPI billing provider on LT claim	0.5	0.6	4.52	N/A	N/A
% billing provider on OT claim	7.4	7.0	-5.94	N/A	N/A
% servicing provider on OT claim	37.9	40.0	5.59	N/A	N/A
% NPI servicing provider on OT claim	20.2	21.5	6.65	N/A	N/A
% billing provider on RX claim	0.4	0.4	0.72	N/A	N/A
% prescribing provider on RX claim	46.0	43.9	-4.62	N/A	N/A
% NPI billing provider on RX claim	1.1	1.2	2.66	N/A	N/A
% billing provider	7.8	7.4	-5.12	N/A	N/A
% NPI billing provider	2.0	2.0	2.46	N/A	N/A
% servicing provider	37.9	40.0	5.59	N/A	N/A
% NPI servicing provider	20.2	21.5	6.65	N/A	N/A
% prescribing provider	46.0	43.9	-4.62	N/A	N/A
% provider IDs with NPI	41.4	44.1	6.46	30%(+/-)	Yes
% provider IDs linked to NPPES	41.3	44.1	6.72	30%(+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of claims	1,370.3	1,461.7	6.67	30%(+/-)	Yes
average number of beneficiaries with claims	222.8	235.3	5.61	30%(+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	100,990	105,603	4.57	30%(+/-)	Yes
% NPI source = MSIS	99.9	99.9	0.00	30%(+/-)	Yes
% NPI source = NPPES	0.1	0.1	3.48	30%(+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	100,730	105,592	4.83	30%(+/-)	Yes
% linked via NPI	99.9	99.9	0.00	30%(+/-)	Yes
% linked via Medicaid legacy provider ID	0.1	0.1	-6.12	30%(+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	58.82	30%(+/-)	Yes
% with name prefix	36.1	37.4	3.71	30%(+/-)	Yes
% with first name	78.7	79.4	0.77	30%(+/-)	Yes
% with middle name	53.4	54.2	1.60	30%(+/-)	Yes
% with last name	78.7	79.4	0.77	30%(+/-)	Yes
% with name suffix	1.4	1.4	0.42	30%(+/-)	Yes
% male	50.6	50.0	-1.14	30%(+/-)	Yes
% female	28.2	29.4	4.21	30%(+/-)	Yes
% with credential	76.0	76.9	1.10	30%(+/-)	Yes
% with business name	21.3	20.3	-4.64	30%(+/-)	Yes
% with address line 1	100.0	99.6	-0.38	30%(+/-)	Yes
% with city	100.0	99.6	-0.38	30%(+/-)	Yes
% with state	100.0	99.6	-0.38	30%(+/-)	Yes
% state = claim file state code	75.2	73.6	-2.10	30%(+/-)	Yes
% with zip code	100.0	99.6	-0.38	30%(+/-)	Yes

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

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2009-2010 MAX All Provider Characteristics Validation Table
State: IL
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% with primary taxonomy	98.9	98.1	-0.82	30%(+/-)	Yes
% with provider entity type = individual	78.7	79.4	0.77	30%(+/-)	Yes
% with provider entity type = organization	21.3	20.3	-4.64	30%(+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	99,748	103,534	3.80	30%(+/-)	Yes
% individual or group of individuals	80.3	80.4	0.14	30%(+/-)	Yes
% allopathic and osteopathic physicians	61.9	61.4	-0.95	30%(+/-)	Yes
% behavioral health and social service providers	0.1	0.2	87.00	30%(+/-)	Yes
% chiropractic providers	1.0	0.9	-6.71	30%(+/-)	Yes
% dental providers	2.5	3.6	48.49	30%(+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	-100.00	30%(+/-)	Yes
% emergency medical service providers	0.0	0.0	-29.17	30%(+/-)	Yes
% eye and vision service providers	1.6	1.6	1.49	30%(+/-)	Yes
% nursing service providers	0.1	0.1	78.87	30%(+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30%(+/-)	N/A
% other service providers	1.1	1.7	52.73	30%(+/-)	Yes
% pharmacy service providers	1.8	0.2	-91.45	30%(+/-)	Yes
% physician assistants and advanced practice nursing providers	4.7	6.0	26.80	30%(+/-)	Yes
% podiatric medicine and surgery service providers	1.1	1.1	1.25	30%(+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	2.1	2.1	0.43	30%(+/-)	Yes
% speech, language, and hearing service providers	0.9	1.0	5.66	30%(+/-)	Yes
% student health care	0.1	0.3	109.03	30%(+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	21.21	30%(+/-)	Yes
% group of individuals with multi- or single specialty	1.0	0.0	-100.00	30%(+/-)	Yes
% nonindividuals	19.7	19.6	-0.56	30%(+/-)	Yes
% agencies	1.3	2.8	112.32	30%(+/-)	Yes
% ambulatory health care facilities	4.5	2.3	-49.29	30%(+/-)	Yes
% hospital units	0.1	0.1	-7.91	30%(+/-)	Yes
% hospitals	3.9	3.2	-18.05	30%(+/-)	Yes
% laboratories	0.4	0.4	2.76	30%(+/-)	Yes
% managed care organizations	0.0	0.0	-37.93	30%(+/-)	Yes
% nursing and custodial care facilities	1.6	1.6	0.44	30%(+/-)	Yes
% residential treatment facilities	0.2	0.4	89.47	30%(+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30%(+/-)	N/A
% suppliers	6.2	7.4	19.22	30%(+/-)	Yes
% transportation services	1.4	1.4	-2.92	30%(+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	79,319	83,790	5.64	30%(+/-)	Yes
% a sole proprietorship	14.7	15.7	7.26	30%(+/-)	Yes
% not a sole proprietorship	74.5	76.7	3.01	30%(+/-)	Yes
% not answered	10.8	7.5	-30.54	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	21,411	21,404	-0.03	30%(+/-)	Yes
% organization is a subpart	18.0	18.5	2.44	30%(+/-)	Yes
% organization is not a subpart	57.8	63.1	9.20	30%(+/-)	Yes
% not answered	24.1	18.4	-23.87	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

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