

**Medicaid Analytic Extract  
Provider Characteristics (MAXPC)**

**State-Specific Validation Tables,  
2011**

June 28, 2013

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Policy Research

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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.<sup>1</sup> 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 percentage change between year two and year three, if applicable, followed by the expected

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<sup>1</sup> CMS. “National Provider Identifier (NPI) Overview.” Available at <http://www.cms.gov/nationalProvIdentstand/>.

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 2011 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.

2009-2011 MAX IP Billing Provider Characteristics Validation Table

State: AL

Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>IP Providers</b>								
Number of provider IDs	573	590	667	2.97	13.05	30% (+/-)	Yes	Yes
% billing provider on IP claim	50.3	50.3	50.2	0.15	-0.23	N/A	N/A	N/A
% NPI billing provider on IP claim	49.7	49.7	49.8	-0.16	0.23	N/A	N/A	N/A
% also a provider on LT claim	2.1	0.7	0.3	-67.63	-55.77	N/A	N/A	N/A
% also a provider on OT claim	82.7	86.3	86.8	4.29	0.62	N/A	N/A	N/A
% also a provider on RX claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% provider IDs with NPI	100.0	100.0	99.9	0.00	-0.15	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	100.0	100.0	99.9	0.00	-0.15	30% (+/-)	Yes	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of IP claims	548.7	557.8	495.3	1.66	-11.21	30% (+/-)	Yes	Yes
average number of beneficiaries with IP claims	429.3	432.8	378.1	0.82	-12.64	30% (+/-)	Yes	Yes
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	573	590	666	2.97	12.88	30% (+/-)	Yes	Yes
% NPI source = MSIS	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% NPI source = NPPES	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% NPI source = state cross-reference file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs Linked to NPPES</b>								
Number of provider IDs linked to NPPES	573	590	666	2.97	12.88	30% (+/-)	Yes	Yes
% linked via NPI	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% linked via Medicare UPIN	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with name prefix	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with first name	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with middle name	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with last name	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with name suffix	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% male	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% female	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with credential	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with business name	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with address line 1	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with city	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with state	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% state = IP state code	40.7	40.7	36.3	0.04	-10.67	30% (+/-)	Yes	Yes
% with zip code	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with primary taxonomy	100.0	99.7	99.7	-0.34	0.04	30% (+/-)	Yes	Yes
% with provider entity type = individual	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with provider entity type = organization	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2011.

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.

b "Yes" signifies that either (1) the percent change between 2010 and 2011 is within the cross-year expected range or (2) both the 2010 and the 2011 values are less than 10. "No" signifies that both (1) the percent change between 2010 and 2011 is over or under the cross-year expected range and (2) either the 2010 or the 2011 value is greater than 10.

2009-2011 MAX IP Billing Provider Characteristics Validation Table

State: AL  
Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>Provider IDs with NPPES Primary Taxonomy</b>								
Number of provider IDs with NPPES primary taxonomy	573	588	664	2.62	12.93	30% (+/-)	Yes	Yes
% individual or group of individuals	0.7	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% allopathic and osteopathic physicians	0.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% behavioral health and social service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% chiropractic providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% dental providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% dietary and nutritional service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% emergency medical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% eye and vision service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing service-related providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% other service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% pharmacy service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% physician assistants and advanced practice nursing providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% podiatric medicine and surgery service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% speech, language, and hearing service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% student health care	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% technologists, technicians, and other technical service providers	0.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% group of individuals with multi- or single specialty	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nonindividuals	99.3	100.0	100.0	0.70	0.00	30% (+/-)	Yes	Yes
% agencies	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% ambulatory health care facilities	0.7	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% hospital units	2.4	4.1	4.8	67.06	18.07	30% (+/-)	Yes	Yes
% hospitals	95.6	95.9	94.9	0.29	-1.08	30% (+/-)	Yes	Yes
% laboratories	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% managed care organizations	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing and custodial care facilities	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% residential treatment facilities	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% respite care facility	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% suppliers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% transportation services	0.5	0.0	0.3	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>								
Number of provider IDs with entity type = individual	0	0	0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% a sole proprietorship	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% not a sole proprietorship	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% not answered	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>								
Number of provider IDs with entity type = organization	573	590	666	2.97	12.88	30% (+/-)	Yes	Yes
% organization is a subpart	6.6	7.1	9.9	7.34	39.21	30% (+/-)	Yes	Yes
% organization is not a subpart	82.2	82.9	81.4	0.83	-1.81	30% (+/-)	Yes	Yes
% not answered	11.2	10.0	8.7	-10.47	-12.91	N/A	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2011.

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.

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2009-2011 MAX LT Billing Provider Characteristics Validation Table

State: AL  
Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>LT Providers</b>								
Number of provider IDs	538	523	512	-2.79	-2.10	30% (+/-)	Yes	Yes
% billing provider on LT claim	50.7	50.7	50.8	-0.15	0.22	N/A	N/A	N/A
% NPI billing provider on LT claim	49.3	49.3	49.2	0.15	-0.23	N/A	N/A	N/A
% also a provider on IP claim	2.2	0.8	0.4	-65.71	-48.93	N/A	N/A	N/A
% also a provider on OT claim	48.7	48.2	47.9	-1.06	-0.69	N/A	N/A	N/A
% also a provider on RX claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% provider IDs with NPI	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	98.5	100.0	100.0	1.51	0.00	30% (+/-)	Yes	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of LT claims	1101.1	1,124.2	1,146.7	2.10	2.00	30% (+/-)	Yes	Yes
average number of beneficiaries with LT claims	111.0	114.1	116.3	2.77	1.92	30% (+/-)	Yes	Yes
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	538	523	512	-2.79	-2.10	30% (+/-)	Yes	Yes
% NPI source = MSIS	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% NPI source = NPPES	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% NPI source = state cross-reference file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs Linked to NPPES</b>								
Number of provider IDs linked to NPPES	530	523	512	-1.32	-2.10	30% (+/-)	Yes	Yes
% linked via NPI	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% linked via Medicare UPIN	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with name prefix	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with first name	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with middle name	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with last name	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with name suffix	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% male	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% female	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with credential	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with business name	100.0	98.5	100.0	-1.53	1.55	30% (+/-)	Yes	Yes
% with address line 1	100.0	98.5	100.0	-1.53	1.55	30% (+/-)	Yes	Yes
% with city	100.0	98.5	100.0	-1.53	1.55	30% (+/-)	Yes	Yes
% with state	100.0	98.5	100.0	-1.53	1.55	30% (+/-)	Yes	Yes
% state = LT state code	99.6	98.5	100.0	-1.16	1.55	30% (+/-)	Yes	Yes
% with zip code	100.0	98.5	100.0	-1.53	1.55	30% (+/-)	Yes	Yes
% with primary taxonomy	100.0	97.1	99.0	-2.87	1.95	30% (+/-)	Yes	Yes
% with provider entity type = individual	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with provider entity type = organization	100.0	98.5	100.0	-1.53	1.55	30% (+/-)	Yes	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2011.

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.

b "Yes" signifies that either (1) the percent change between 2010 and 2011 is within the cross-year expected range or (2) both the 2010 and the 2011 values are less than 10. "No" signifies that both (1) the percent change between 2010 and 2011 is over or under the cross-year expected range and (2) either the 2010 or the 2011 value is greater than 10.

2009-2011 MAX LT Billing Provider Characteristics Validation Table

State: AL  
Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>Provider IDs with NPPES Primary Taxonomy</b>								
Number of provider IDs with NPPES primary taxonomy	538	508	507	-5.58	-0.20	30% (+/-)	Yes	Yes
% individual or group of individuals	0.2	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% allopathic and osteopathic physicians	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% behavioral health and social service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% chiropractic providers	0.2	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% dental providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% dietary and nutritional service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% emergency medical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% eye and vision service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing service-related providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% other service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% pharmacy service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% physician assistants and advanced practice nursing providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% podiatric medicine and surgery service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% speech, language, and hearing service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% student health care	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% group of individuals with multi- or single specialty	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nonindividuals	99.8	100.0	100.0	0.19	0.00	30% (+/-)	Yes	Yes
% agencies	1.7	0.8	0.8	-52.93	0.20	30% (+/-)	Yes	Yes
% ambulatory health care facilities	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% hospital units	2.2	1.2	1.6	-47.05	33.60	30% (+/-)	Yes	Yes
% hospitals	5.0	5.1	4.3	1.98	-15.22	30% (+/-)	Yes	Yes
% laboratories	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% managed care organizations	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing and custodial care facilities	83.6	86.8	87.2	3.79	0.42	30% (+/-)	Yes	Yes
% residential treatment facilities	6.5	6.1	6.1	-6.20	0.20	30% (+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% suppliers	0.7	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% transportation services	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>								
Number of provider IDs with entity type = individual	0	0	0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% a sole proprietorship	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% not a sole proprietorship	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% not answered	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>								
Number of provider IDs with entity type = organization	530	515	512	-2.83	-0.58	30% (+/-)	Yes	Yes
% organization is a subpart	11.1	12.8	12.5	15.12	-2.46	30% (+/-)	Yes	Yes
% organization is not a subpart	57.4	64.9	65.0	13.07	0.28	30% (+/-)	Yes	Yes
% not answered	31.5	22.3	22.5	-29.13	0.59	N/A	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2011.

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b "Yes" signifies that either (1) the percent change between 2010 and 2011 is within the cross-year expected range or (2) both the 2010 and the 2011 values are less than 10. "No" signifies that both (1) the percent change between 2010 and 2011 is over or under the cross-year expected range and (2) either the 2010 or the 2011 value is greater than 10.

2009-2011 MAX OT Servicing Provider Characteristics Validation Table

State: AL

Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>OT Providers</b>								
Number of provider IDs	44,185	47,397	50,975	7.27	7.55	30% (+/-)	Yes	Yes
% billing provider on OT claim	9.2	6.8	7.7	-26.40	12.82	N/A	N/A	N/A
% servicing provider on OT claim	61.2	61.3	62.6	0.23	2.09	N/A	N/A	N/A
% NPI servicing provider on OT claim	38.8	38.7	37.4	-0.36	-3.31	N/A	N/A	N/A
% also a provider on IP claim	1.1	0.6	1.1	-41.94	78.88	N/A	N/A	N/A
% also a provider on LT claim	0.2	0.1	0.1	-53.95	6.59	N/A	N/A	N/A
% also a provider on RX claim	1.2	1.2	1.1	-1.58	-4.65	N/A	N/A	N/A
% provider IDs with NPI	100.0	100.0	100.0	0.00	-0.02	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	99.7	99.9	99.9	0.23	0.00	30% (+/-)	Yes	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of OT claims	1341.4	1,251.0	1,302.0	-6.74	4.08	30% (+/-)	Yes	Yes
average number of beneficiaries with OT claims	238.6	226.9	229.0	-4.90	0.89	30% (+/-)	Yes	Yes
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	44,179	47,392	50,961	7.27	7.53	30% (+/-)	Yes	Yes
% NPI source = MSIS	100.0	100.0	100.0	0.01	-0.01	30% (+/-)	Yes	Yes
% NPI source = NPPES	0.0	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% NPI source = state cross-reference file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs Linked to NPPES</b>								
Number of provider IDs linked to NPPES	44,058	47,370	50,944	7.52	7.54	30% (+/-)	Yes	Yes
% linked via NPI	100.0	100.0	100.0	0.01	-0.01	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% linked via Medicare UPIN	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with name prefix	38.7	39.5	38.8	1.88	-1.78	30% (+/-)	Yes	Yes
% with first name	84.7	86.8	86.5	2.45	-0.35	30% (+/-)	Yes	Yes
% with middle name	71.5	73.5	72.8	2.74	-0.89	30% (+/-)	Yes	Yes
% with last name	84.7	86.8	86.5	2.45	-0.35	30% (+/-)	Yes	Yes
% with name suffix	7.5	7.3	7.0	-2.53	-3.33	30% (+/-)	Yes	Yes
% male	60.6	61.2	59.6	0.93	-2.60	30% (+/-)	Yes	Yes
% female	24.1	25.6	26.9	6.26	5.03	30% (+/-)	Yes	Yes
% with credential	83.3	85.3	84.9	2.39	-0.48	30% (+/-)	Yes	Yes
% with business name	15.3	12.9	13.3	-15.89	3.60	30% (+/-)	Yes	Yes
% with address line 1	100.0	99.6	99.8	-0.36	0.16	30% (+/-)	Yes	Yes
% with city	100.0	99.6	99.8	-0.36	0.16	30% (+/-)	Yes	Yes
% with state	100.0	99.6	99.8	-0.36	0.16	30% (+/-)	Yes	Yes
% state = OT state code	80.0	77.8	77.7	-2.78	-0.16	30% (+/-)	Yes	Yes
% with zip code	100.0	99.6	99.8	-0.36	0.16	30% (+/-)	Yes	Yes
% with primary taxonomy	99.7	97.7	97.8	-2.07	0.13	30% (+/-)	Yes	Yes
% with provider entity type = individual	84.7	86.8	86.5	2.45	-0.35	30% (+/-)	Yes	Yes
% with provider entity type = organization	15.3	12.9	13.3	-15.89	3.60	30% (+/-)	Yes	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2011.

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2009-2011 MAX OT Servicing Provider Characteristics Validation Table

State: AL  
Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>Provider IDs with NPPES Primary Taxonomy</b>								
Number of provider IDs with NPPES primary taxonomy	44,063	46,266	49,822	5.00	7.69	30% (+/-)	Yes	Yes
% individual or group of individuals	85.3	88.6	88.2	3.79	-0.46	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	58.3	62.2	61.1	6.71	-1.74	30% (+/-)	Yes	Yes
% behavioral health and social service providers	0.8	0.9	0.9	13.90	0.13	30% (+/-)	Yes	Yes
% chiropractic providers	4.6	0.0	0.0	-99.15	13.50	30% (+/-)	Yes	Yes
% dental providers	3.3	3.7	3.7	10.36	0.24	30% (+/-)	Yes	Yes
% dietary and nutritional service providers	0.0	0.0	0.0	-68.25	-7.14	30% (+/-)	Yes	Yes
% emergency medical service providers	0.0	0.0	0.0	34.92	-7.14	30% (+/-)	Yes	Yes
% eye and vision service providers	2.3	2.3	2.3	2.08	-3.08	30% (+/-)	Yes	Yes
% nursing service providers	0.1	0.1	0.2	18.10	33.30	30% (+/-)	Yes	Yes
% nursing service-related providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% other service providers	2.4	3.7	3.4	54.08	-7.90	30% (+/-)	Yes	Yes
% pharmacy service providers	0.1	0.1	0.1	-16.67	6.13	30% (+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	10.6	12.5	13.1	18.11	4.88	30% (+/-)	Yes	Yes
% podiatric medicine and surgery service providers	0.3	0.4	0.3	22.02	-1.48	30% (+/-)	Yes	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.2	1.4	1.4	18.91	-1.81	30% (+/-)	Yes	Yes
% speech, language, and hearing service providers	0.6	0.7	0.8	29.80	7.42	30% (+/-)	Yes	Yes
% student health care	0.2	0.5	0.8	194.85	70.11	30% (+/-)	Yes	Yes
% technologists, technicians, and other technical service providers	0.5	0.0	0.0	-96.90	-7.14	30% (+/-)	Yes	Yes
% group of individuals with multi- or single specialty	0.2	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nonindividuals	14.7	11.4	11.8	-22.07	3.59	30% (+/-)	Yes	Yes
% agencies	3.3	2.2	2.2	-34.57	0.38	30% (+/-)	Yes	Yes
% ambulatory health care facilities	1.6	1.0	1.1	-41.56	17.77	30% (+/-)	Yes	Yes
% hospital units	0.0	0.0	0.0	-60.32	30.01	30% (+/-)	Yes	Yes
% hospitals	2.5	1.4	2.1	-45.21	52.02	30% (+/-)	Yes	Yes
% laboratories	0.6	0.8	0.7	20.93	-4.51	30% (+/-)	Yes	Yes
% managed care organizations	0.2	0.0	0.0	-79.83	-7.14	30% (+/-)	Yes	Yes
% nursing and custodial care facilities	0.2	0.1	0.1	-51.69	16.74	30% (+/-)	Yes	Yes
% residential treatment facilities	0.3	0.4	0.3	42.44	-7.14	30% (+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	471.43	-7.14	30% (+/-)	Yes	Yes
% suppliers	5.1	4.9	4.5	-4.46	-7.76	30% (+/-)	Yes	Yes
% transportation services	0.8	0.8	0.7	-5.54	-7.91	30% (+/-)	Yes	Yes
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>								
Number of provider IDs with entity type = individual	37,315	41,102	44,049	10.15	7.17	30% (+/-)	Yes	Yes
% a sole proprietorship	14.6	15.9	16.0	8.44	1.07	30% (+/-)	Yes	Yes
% not a sole proprietorship	74.1	76.6	77.0	3.32	0.46	30% (+/-)	Yes	Yes
% not answered	11.2	7.5	7.0	-32.90	-6.96	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>								
Number of provider IDs with entity type = organization	6,743	6,098	6,794	-9.57	11.41	30% (+/-)	Yes	Yes
% organization is a subpart	12.0	13.5	12.0	12.22	-11.01	30% (+/-)	Yes	Yes
% organization is not a subpart	55.9	60.9	61.3	8.88	0.68	30% (+/-)	Yes	Yes
% not answered	32.1	25.6	26.7	-20.04	4.16	N/A	N/A	N/A

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2009-2011 MAX OT Billing Provider Characteristics Validation Table

State: AL

Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>OT Providers</b>								
Number of provider IDs	7,784	7,896	7,986	1.44	1.14	30% (+/-)	Yes	Yes
% billing provider on OT claim	100.0	100.0	100.0	0.00	0.00	N/A	N/A	N/A
% servicing provider on OT claim	52.5	40.8	49.0	-22.17	19.97	N/A	N/A	N/A
% NPI servicing provider on OT claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% also a provider on IP claim	3.1	3.3	3.7	7.14	10.53	N/A	N/A	N/A
% also a provider on LT claim	2.7	2.7	2.7	-0.95	-1.13	N/A	N/A	N/A
% also a provider on RX claim	0.0	0.0	0.0	-100.00	Div by 0	N/A	N/A	N/A
% provider IDs with NPI	65.1	57.5	62.2	-11.56	8.17	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	64.8	57.5	62.2	-11.18	8.19	30% (+/-)	Yes	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of OT claims	4812.9	4,799.8	4,363.3	-0.27	-9.09	30% (+/-)	Yes	Yes
average number of beneficiaries with OT claims	608.3	633.4	618.9	4.13	-2.29	30% (+/-)	Yes	Yes
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	5,064	4,543	4,970	-10.29	9.40	30% (+/-)	Yes	Yes
% NPI source = MSIS	84.3	80.5	83.1	-4.61	3.26	30% (+/-)	Yes	Yes
% NPI source = NPPES	15.7	19.5	16.9	24.82	-13.43	30% (+/-)	Yes	Yes
% NPI source = state cross-reference file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs Linked to NPPES</b>								
Number of provider IDs linked to NPPES	5,041	4,542	4,970	-9.90	9.42	30% (+/-)	Yes	Yes
% linked via NPI	84.3	80.4	83.1	-4.53	3.27	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	15.3	18.8	16.1	22.62	-14.50	30% (+/-)	Yes	Yes
% linked via Medicare UPIN	0.4	0.7	0.8	88.68	12.89	30% (+/-)	Yes	Yes
% with name prefix	15.4	15.6	13.7	1.29	-12.47	30% (+/-)	Yes	Yes
% with first name	23.8	24.0	21.4	1.00	-11.12	30% (+/-)	Yes	Yes
% with middle name	21.2	21.5	19.1	1.53	-11.04	30% (+/-)	Yes	Yes
% with last name	23.8	24.0	21.4	1.00	-11.12	30% (+/-)	Yes	Yes
% with name suffix	3.1	2.9	2.5	-6.20	-12.80	30% (+/-)	Yes	Yes
% male	19.8	19.7	17.5	-0.58	-11.17	30% (+/-)	Yes	Yes
% female	4.0	4.4	3.9	8.79	-10.92	30% (+/-)	Yes	Yes
% with credential	23.3	23.5	20.8	0.70	-11.52	30% (+/-)	Yes	Yes
% with business name	76.2	75.6	78.5	-0.80	3.79	30% (+/-)	Yes	Yes
% with address line 1	100.0	99.6	99.8	-0.37	0.19	30% (+/-)	Yes	Yes
% with city	100.0	99.6	99.8	-0.37	0.19	30% (+/-)	Yes	Yes
% with state	100.0	99.6	99.8	-0.37	0.19	30% (+/-)	Yes	Yes
% state = OT state code	81.7	83.2	80.4	1.80	-3.36	30% (+/-)	Yes	Yes
% with zip code	100.0	99.6	99.8	-0.37	0.19	30% (+/-)	Yes	Yes
% with primary taxonomy	99.0	96.2	94.5	-2.78	-1.77	30% (+/-)	Yes	Yes
% with provider entity type = individual	23.8	24.0	21.4	1.00	-11.12	30% (+/-)	Yes	Yes
% with provider entity type = organization	76.2	75.6	78.5	-0.80	3.79	30% (+/-)	Yes	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A

Source: Medicaid Analytic eExtract (MAX) Provider Characteristics Files, 2009-2011.

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2009-2011 MAX OT Billing Provider Characteristics Validation Table

State: AL

Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>Provider IDs with NPPES Primary Taxonomy</b>								
Number of provider IDs with NPPES primary taxonomy	5,013	4,371	4,698	-12.81	7.48	30% (+/-)	Yes	Yes
% individual or group of individuals	37.6	40.7	37.1	8.18	-8.79	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	21.4	23.8	21.8	11.48	-8.57	30% (+/-)	Yes	Yes
% behavioral health and social service providers	0.7	0.9	0.8	24.52	-4.51	30% (+/-)	Yes	Yes
% chiropractic providers	1.0	0.2	0.1	-80.15	-27.64	30% (+/-)	Yes	Yes
% dental providers	5.6	6.0	5.4	7.72	-10.14	30% (+/-)	Yes	Yes
% dietary and nutritional service providers	0.0	0.0	0.0	14.69	-6.96	30% (+/-)	Yes	Yes
% emergency medical service providers	0.1	0.0	0.0	-23.54	-6.96	30% (+/-)	Yes	Yes
% eye and vision service providers	3.6	3.9	3.5	8.92	-9.15	30% (+/-)	Yes	Yes
% nursing service providers	0.2	0.3	0.2	26.16	-23.88	30% (+/-)	Yes	Yes
% nursing service-related providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% other service providers	2.4	3.2	2.9	33.64	-9.60	30% (+/-)	Yes	Yes
% pharmacy service providers	0.3	0.4	0.4	21.43	3.38	30% (+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	0.7	0.6	0.5	-15.67	-14.40	30% (+/-)	Yes	Yes
% podiatric medicine and surgery service providers	0.6	0.6	0.6	3.22	-3.51	30% (+/-)	Yes	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.3	0.3	0.3	32.33	-0.76	30% (+/-)	Yes	Yes
% speech, language, and hearing service providers	0.3	0.3	0.3	22.88	-6.96	30% (+/-)	Yes	Yes
% student health care	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% technologists, technicians, and other technical service providers	0.1	0.0	0.0	-54.12	-6.96	30% (+/-)	Yes	Yes
% group of individuals with multi- or single specialty	0.4	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nonindividuals	62.4	59.3	62.9	-4.93	6.03	30% (+/-)	Yes	Yes
% agencies	12.5	7.6	9.7	-39.26	28.74	30% (+/-)	No	Yes
% ambulatory health care facilities	5.5	4.7	5.2	-13.77	11.11	30% (+/-)	Yes	Yes
% hospital units	0.1	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% hospitals	10.5	7.5	11.3	-27.99	49.60	30% (+/-)	Yes	No
% laboratories	2.8	4.1	3.9	47.69	-4.36	30% (+/-)	Yes	Yes
% managed care organizations	0.3	0.2	0.1	-42.66	-6.96	30% (+/-)	Yes	Yes
% nursing and custodial care facilities	4.2	4.9	4.5	15.77	-7.40	30% (+/-)	Yes	Yes
% residential treatment facilities	0.0	0.0	0.0	14.69	-6.96	30% (+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% suppliers	22.7	25.9	23.9	14.28	-7.70	30% (+/-)	Yes	Yes
% transportation services	3.9	4.4	4.1	13.51	-6.96	30% (+/-)	Yes	Yes
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>								
Number of provider IDs with entity type = individual	1,200	1,092	1,062	-9.00	-2.75	30% (+/-)	Yes	Yes
% a sole proprietorship	54.3	58.2	58.0	7.36	-0.41	30% (+/-)	Yes	Yes
% not a sole proprietorship	36.3	35.3	35.9	-2.71	1.49	30% (+/-)	Yes	Yes
% not answered	9.4	6.4	6.1	-31.93	-4.52	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>								
Number of provider IDs with entity type = organization	3,841	3,433	3,899	-10.62	13.57	30% (+/-)	Yes	Yes
% organization is a subpart	13.3	14.7	13.0	10.79	-11.25	30% (+/-)	Yes	Yes
% organization is not a subpart	60.7	68.9	65.7	13.56	-4.70	30% (+/-)	Yes	Yes
% not answered	26.1	16.4	21.3	-37.07	29.80	N/A	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2011.

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.

b "Yes" signifies that either (1) the percent change between 2010 and 2011 is within the cross-year expected range or (2) both the 2010 and the 2011 values are less than 10. "No" signifies that both (1) the percent change between 2010 and 2011 is over or under the cross-year expected range and (2) either the 2010 or the 2011 value is greater than 10.

2009-2011 MAX RX Billing Provider Characteristics Validation Table

State: AL

Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>RX Providers</b>								
Number of provider IDs	2,797	2,819	2,865	0.79	1.63	30% (+/-)	Yes	Yes
% billing provider on RX claim	50.1	50.3	50.2	0.28	-0.22	N/A	N/A	N/A
% prescribing provider on RX claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% NPI billing provider on RX claim	49.9	49.7	49.8	-0.28	0.22	N/A	N/A	N/A
% also a provider on IP claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% also a provider on LT claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% also a provider on OT claim	18.1	19.5	19.7	7.44	0.90	N/A	N/A	N/A
% provider IDs with NPI	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	99.7	100.0	100.0	0.29	0.00	30% (+/-)	Yes	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of RX claims	6407.0	6,779.5	6,924.2	5.81	2.13	30% (+/-)	Yes	Yes
average number of beneficiaries with RX claims	648.3	666.3	680.0	2.76	2.06	30% (+/-)	Yes	Yes
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	2,797	2,819	2,865	0.79	1.63	30% (+/-)	Yes	Yes
% NPI source = MSIS	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% NPI source = NPPES	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% NPI source = state cross-reference file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs Linked to NPPES</b>								
Number of provider IDs linked to NPPES	2,789	2,819	2,865	1.08	1.63	30% (+/-)	Yes	Yes
% linked via NPI	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% linked via Medicare UPIN	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with name prefix	0.2	0.2	0.2	-1.06	-1.61	30% (+/-)	Yes	Yes
% with first name	0.4	0.4	0.3	-1.06	-21.28	30% (+/-)	Yes	Yes
% with middle name	0.3	0.3	0.2	-1.06	-26.20	30% (+/-)	Yes	Yes
% with last name	0.4	0.4	0.3	-1.06	-21.28	30% (+/-)	Yes	Yes
% with name suffix	0.1	0.1	0.1	-1.06	-1.61	30% (+/-)	Yes	Yes
% male	0.4	0.4	0.3	-1.06	-21.28	30% (+/-)	Yes	Yes
% female	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with credential	0.3	0.3	0.2	-1.06	-26.20	30% (+/-)	Yes	Yes
% with business name	99.6	98.9	99.2	-0.78	0.37	30% (+/-)	Yes	Yes
% with address line 1	100.0	99.2	99.5	-0.78	0.29	30% (+/-)	Yes	Yes
% with city	100.0	99.2	99.5	-0.78	0.29	30% (+/-)	Yes	Yes
% with state	100.0	99.2	99.5	-0.78	0.29	30% (+/-)	Yes	Yes
% state = RX state code	93.2	92.0	91.6	-1.25	-0.47	30% (+/-)	Yes	Yes
% with zip code	100.0	99.2	99.5	-0.78	0.29	30% (+/-)	Yes	Yes
% with primary taxonomy	100.0	96.6	97.2	-3.41	0.63	30% (+/-)	Yes	Yes
% with provider entity type = individual	0.4	0.4	0.3	-1.06	-21.28	30% (+/-)	Yes	Yes
% with provider entity type = organization	99.6	98.9	99.2	-0.78	0.37	30% (+/-)	Yes	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2011.

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.

b "Yes" signifies that either (1) the percent change between 2010 and 2011 is within the cross-year expected range or (2) both the 2010 and the 2011 values are less than 10. "No" signifies that both (1) the percent change between 2010 and 2011 is over or under the cross-year expected range and (2) either the 2010 or the 2011 value is greater than 10.

2009-2011 MAX RX Billing Provider Characteristics Validation Table

State: AL

Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>Provider IDs with NPPES Primary Taxonomy</b>								
Number of provider IDs with NPPES primary taxonomy	2,797	2,723	2,785	-2.65	2.28	30% (+/-)	Yes	Yes
% individual or group of individuals	8.4	7.3	6.8	-13.09	-6.18	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	0.0	0.1	0.1	Div by 0	-2.23	30% (+/-)	N/A	Yes
% behavioral health and social service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% chiropractic providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% dental providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% dietary and nutritional service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% emergency medical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% eye and vision service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing service-related providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% other service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% pharmacy service providers	8.1	7.2	6.8	-10.92	-6.22	30% (+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% podiatric medicine and surgery service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% speech, language, and hearing service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% student health care	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% group of individuals with multi- or single specialty	0.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nonindividuals	91.6	92.7	93.2	1.19	0.48	30% (+/-)	Yes	Yes
% agencies	0.1	0.1	0.2	105.44	46.66	30% (+/-)	Yes	Yes
% ambulatory health care facilities	0.0	0.4	0.4	Div by 0	-2.23	30% (+/-)	N/A	Yes
% hospital units	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% hospitals	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% laboratories	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% managed care organizations	0.0	0.1	0.1	Div by 0	-2.23	30% (+/-)	N/A	Yes
% nursing and custodial care facilities	0.1	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% residential treatment facilities	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% respite care facility	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% suppliers	91.5	92.1	92.5	0.71	0.42	30% (+/-)	Yes	Yes
% transportation services	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>								
Number of provider IDs with entity type = individual	10	10	8	0.00	-20.00	30% (+/-)	Yes	Yes
% a sole proprietorship	80.0	80.0	75.0	0.00	-6.25	30% (+/-)	Yes	Yes
% not a sole proprietorship	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% not answered	20.0	20.0	25.0	0.00	25.00	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>								
Number of provider IDs with entity type = organization	2,779	2,787	2,843	0.29	2.01	30% (+/-)	Yes	Yes
% organization is a subpart	21.8	21.0	20.6	-3.75	-1.80	30% (+/-)	Yes	Yes
% organization is not a subpart	62.8	66.8	68.0	6.40	1.77	30% (+/-)	Yes	Yes
% not answered	15.5	12.3	11.5	-20.69	-6.56	N/A	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2011.

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b "Yes" signifies that either (1) the percent change between 2010 and 2011 is within the cross-year expected range or (2) both the 2010 and the 2011 values are less than 10. "No" signifies that both (1) the percent change between 2010 and 2011 is over or under the cross-year expected range and (2) either the 2010 or the 2011 value is greater than 10.

2009-2011 MAX RX Prescribing Provider Characteristics Validation Table

State: AL  
Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>RX Providers</b>								
Number of provider IDs	13,796	13,834	14,235	0.28	2.90	30% (+/-)	Yes	Yes
% billing provider on RX claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% prescribing provider on RX claim	100.0	100.0	100.0	0.00	0.00	N/A	N/A	N/A
% NPI billing provider on RX claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% also a provider on IP claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% also a provider on LT claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% also a provider on OT claim	0.1	0.0	0.0	-100.00	Div by 0	N/A	N/A	N/A
% provider IDs with NPI	3.9	4.2	4.3	6.15	2.73	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	3.9	4.2	4.3	6.15	2.73	30% (+/-)	Yes	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of RX claims	649.5	690.7	696.8	6.35	0.88	30% (+/-)	Yes	Yes
average number of beneficiaries with RX claims	101.3	105.1	105.7	3.73	0.60	30% (+/-)	Yes	Yes
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	543	578	611	6.45	5.71	30% (+/-)	Yes	Yes
% NPI source = MSIS	2.4	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% NPI source = NPPES	97.6	100.0	100.0	2.45	0.00	30% (+/-)	Yes	Yes
% NPI source = state cross-reference file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs Linked to NPPES</b>								
Number of provider IDs linked to NPPES	543	578	611	6.45	5.71	30% (+/-)	Yes	Yes
% linked via NPI	2.4	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% linked via Medicaid legacy provider ID	6.6	6.6	6.2	-0.84	-5.40	30% (+/-)	Yes	Yes
% linked via Medicare UPIN	91.0	93.4	93.8	2.69	0.38	30% (+/-)	Yes	Yes
% with name prefix	44.6	42.6	39.9	-4.50	-6.17	30% (+/-)	Yes	Yes
% with first name	75.9	75.1	75.8	-1.04	0.92	30% (+/-)	Yes	Yes
% with middle name	59.7	58.7	59.6	-1.71	1.58	30% (+/-)	Yes	Yes
% with last name	75.9	75.1	75.8	-1.04	0.92	30% (+/-)	Yes	Yes
% with name suffix	4.1	2.8	2.9	-31.68	6.42	30% (+/-)	Yes	Yes
% male	46.2	44.6	45.7	-3.44	2.30	30% (+/-)	Yes	Yes
% female	29.7	30.4	30.1	2.70	-1.10	30% (+/-)	Yes	Yes
% with credential	72.9	71.8	73.0	-1.55	1.67	30% (+/-)	Yes	Yes
% with business name	24.1	24.9	24.2	3.27	-2.77	30% (+/-)	Yes	Yes
% with address line 1	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with city	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with state	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% state = RX state code	8.7	6.9	6.4	-20.05	-7.77	30% (+/-)	Yes	Yes
% with zip code	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with primary taxonomy	96.1	97.2	97.4	1.14	0.15	30% (+/-)	Yes	Yes
% with provider entity type = individual	75.9	75.1	75.8	-1.04	0.92	30% (+/-)	Yes	Yes
% with provider entity type = organization	24.1	24.9	24.2	3.27	-2.77	30% (+/-)	Yes	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2011.

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b "Yes" signifies that either (1) the percent change between 2010 and 2011 is within the cross-year expected range or (2) both the 2010 and the 2011 values are less than 10. "No" signifies that both (1) the percent change between 2010 and 2011 is over or under the cross-year expected range and (2) either the 2010 or the 2011 value is greater than 10.

2009-2011 MAX RX Prescribing Provider Characteristics Validation Table

State: AL  
Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>Provider IDs with NPPES Primary Taxonomy</b>								
Number of provider IDs with NPPES primary taxonomy	522	562	595	7.66	5.87	30% (+/-)	Yes	Yes
% individual or group of individuals	91.6	91.5	91.8	-0.12	0.33	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	39.5	36.7	36.0	-7.12	-1.88	30% (+/-)	Yes	Yes
% behavioral health and social service providers	10.5	11.2	10.1	6.39	-10.04	30% (+/-)	Yes	Yes
% chiropractic providers	12.6	10.0	9.4	-21.19	-5.55	30% (+/-)	Yes	Yes
% dental providers	5.0	4.8	4.5	-3.55	-5.55	30% (+/-)	Yes	Yes
% dietary and nutritional service providers	0.6	0.5	0.3	-7.12	-37.03	30% (+/-)	Yes	Yes
% emergency medical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% eye and vision service providers	6.1	5.9	5.7	-4.21	-2.68	30% (+/-)	Yes	Yes
% nursing service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing service-related providers	0.2	0.2	0.2	-7.12	-5.55	30% (+/-)	Yes	Yes
% other service providers	4.6	4.3	3.4	-7.12	-21.29	30% (+/-)	Yes	Yes
% pharmacy service providers	1.0	0.7	0.3	-25.69	-52.77	30% (+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	7.1	12.3	17.0	73.21	38.26	30% (+/-)	No	No
% podiatric medicine and surgery service providers	1.3	0.9	0.8	-33.66	-5.55	30% (+/-)	Yes	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.5	2.7	2.5	74.15	-5.55	30% (+/-)	Yes	Yes
% speech, language, and hearing service providers	0.8	1.1	1.2	39.32	10.20	30% (+/-)	Yes	Yes
% student health care	0.6	0.2	0.2	-69.04	-5.55	30% (+/-)	Yes	Yes
% technologists, technicians, and other technical service providers	0.2	0.2	0.2	-7.12	-5.55	30% (+/-)	Yes	Yes
% group of individuals with multi- or single specialty	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nonindividuals	8.4	8.5	8.2	1.33	-3.58	30% (+/-)	Yes	Yes
% agencies	2.5	2.3	2.2	-7.12	-5.55	30% (+/-)	Yes	Yes
% ambulatory health care facilities	3.3	3.4	3.4	3.81	-0.57	30% (+/-)	Yes	Yes
% hospital units	0.2	0.2	0.2	-7.12	-5.55	30% (+/-)	Yes	Yes
% hospitals	0.4	0.4	0.3	-7.12	-5.55	30% (+/-)	Yes	Yes
% laboratories	0.2	0.2	0.2	-7.12	-5.55	30% (+/-)	Yes	Yes
% managed care organizations	0.4	0.7	0.7	85.77	-5.55	30% (+/-)	Yes	Yes
% nursing and custodial care facilities	0.2	0.2	0.2	-7.12	-5.55	30% (+/-)	Yes	Yes
% residential treatment facilities	0.4	0.2	0.2	-53.56	-5.55	30% (+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% suppliers	0.8	0.7	0.7	-7.12	-5.55	30% (+/-)	Yes	Yes
% transportation services	0.2	0.4	0.3	85.77	-5.55	30% (+/-)	Yes	Yes
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>								
Number of provider IDs with entity type = individual	412	434	463	5.34	6.68	30% (+/-)	Yes	Yes
% a sole proprietorship	40.5	37.3	35.2	-7.91	-5.68	30% (+/-)	Yes	Yes
% not a sole proprietorship	49.0	53.2	54.0	8.56	1.45	30% (+/-)	Yes	Yes
% not answered	10.4	9.4	10.8	-9.48	14.31	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>								
Number of provider IDs with entity type = organization	131	144	148	9.92	2.78	30% (+/-)	Yes	Yes
% organization is a subpart	4.6	4.9	5.4	6.13	11.20	30% (+/-)	Yes	Yes
% organization is not a subpart	55.0	63.9	63.5	16.24	-0.59	30% (+/-)	Yes	Yes
% not answered	40.5	31.3	31.1	-22.76	-0.54	N/A	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2011.

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b "Yes" signifies that either (1) the percent change between 2010 and 2011 is within the cross-year expected range or (2) both the 2010 and the 2011 values are less than 10. "No" signifies that both (1) the percent change between 2010 and 2011 is over or under the cross-year expected range and (2) either the 2010 or the 2011 value is greater than 10.

2009-2011 MAX All Provider Characteristics Validation Table

State: AL

Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>All Providers</b>								
Number of provider IDs	64,321	68,522	71,940	6.53	4.99	30%(+/-)	Yes	Yes
% billing provider on IP claim	0.4	0.4	0.5	-3.20	7.44	N/A	N/A	N/A
% NPI billing provider on IP claim	0.4	0.4	0.5	-3.50	7.93	N/A	N/A	N/A
% billing provider on LT claim	0.4	0.4	0.4	-8.88	-6.55	N/A	N/A	N/A
% NPI billing provider on LT claim	0.4	0.4	0.4	-8.61	-6.97	N/A	N/A	N/A
% billing provider on OT claim	12.1	11.5	11.1	-4.78	-3.67	N/A	N/A	N/A
% servicing provider on OT claim	42.0	42.4	44.4	0.92	4.58	N/A	N/A	N/A
% NPI servicing provider on OT claim	26.7	26.8	26.5	0.33	-0.95	N/A	N/A	N/A
% billing provider on RX claim	2.2	2.1	2.0	-5.13	-3.41	N/A	N/A	N/A
% prescribing provider on RX claim	21.4	20.2	19.8	-5.87	-1.99	N/A	N/A	N/A
% NPI billing provider on RX claim	2.2	2.0	2.0	-5.66	-2.98	N/A	N/A	N/A
% billing provider	14.4	13.7	13.2	-5.02	-3.61	N/A	N/A	N/A
% NPI billing provider	3.0	2.8	2.8	-5.55	-1.82	N/A	N/A	N/A
% servicing provider	42.0	42.4	44.4	0.92	4.58	N/A	N/A	N/A
% NPI servicing provider	26.7	26.8	26.5	0.33	-0.95	N/A	N/A	N/A
% prescribing provider	21.4	20.2	19.8	-5.87	-1.99	N/A	N/A	N/A
% provider IDs with NPI	75.2	75.8	76.9	0.79	1.45	30%(+/-)	Yes	Yes
% provider IDs linked to NPPES	75.0	75.7	76.8	1.03	1.46	30%(+/-)	Yes	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of claims	1745.6	1,725.3	1,648.1	-1.16	-4.48	30%(+/-)	Yes	Yes
average number of beneficiaries with claims	262.7	261.9	256.2	-0.31	-2.17	30%(+/-)	Yes	Yes
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	48,344	51,909	55,289	7.37	6.51	30%(+/-)	Yes	Yes
% NPI source = MSIS	97.3	97.2	97.4	-0.09	0.20	30%(+/-)	Yes	Yes
% NPI source = NPPES	2.7	2.8	2.6	3.12	-6.95	30%(+/-)	Yes	Yes
% NPI source = state cross-reference file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs Linked to NPPES</b>								
Number of provider IDs linked to NPPES	48,209	51,887	55,272	7.63	6.52	30%(+/-)	Yes	Yes
% linked via NPI	97.3	97.2	97.4	-0.08	0.20	30%(+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	1.7	1.7	1.5	2.32	-11.81	30%(+/-)	Yes	Yes
% linked via Medicare UPIN	1.1	1.1	1.1	3.76	0.58	30%(+/-)	Yes	Yes
% with name prefix	36.0	36.6	36.3	1.72	-0.92	30%(+/-)	Yes	Yes
% with first name	78.4	80.2	80.7	2.34	0.60	30%(+/-)	Yes	Yes
% with middle name	66.2	67.9	67.9	2.63	0.07	30%(+/-)	Yes	Yes
% with last name	78.4	80.2	80.7	2.34	0.60	30%(+/-)	Yes	Yes
% with name suffix	6.9	6.7	6.5	-2.84	-2.37	30%(+/-)	Yes	Yes
% male	56.0	56.5	55.6	0.80	-1.63	30%(+/-)	Yes	Yes
% female	22.4	23.8	25.2	6.21	5.90	30%(+/-)	Yes	Yes
% with credential	77.1	78.8	79.2	2.28	0.47	30%(+/-)	Yes	Yes
% with business name	21.6	19.4	19.1	-10.27	-1.57	30%(+/-)	Yes	Yes
% with address line 1	100.0	99.6	99.8	-0.38	0.17	30%(+/-)	Yes	Yes
% with city	100.0	99.6	99.8	-0.38	0.17	30%(+/-)	Yes	Yes
% with state	100.0	99.6	99.8	-0.38	0.17	30%(+/-)	Yes	Yes
% state = claim file state code	80.1	77.8	77.7	-2.89	-0.08	30%(+/-)	Yes	Yes
% with zip code	100.0	99.6	99.8	-0.38	0.17	30%(+/-)	Yes	Yes
% with primary taxonomy	99.7	97.6	97.8	-2.08	0.16	30%(+/-)	Yes	Yes

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2011.

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2009-2011 MAX All Provider Characteristics Validation Table

State: AL

Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
% with provider entity type = individual	78.4	80.2	80.7	2.34	0.60	30%(+/-)	Yes	Yes
% with provider entity type = organization	21.6	19.4	19.1	-10.27	-1.57	30%(+/-)	Yes	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs with NPES Primary Taxonomy</b>								
Number of provider IDs with NPES primary taxonomy	48,207	50,662	54,054	5.09	6.70	30%(+/-)	Yes	Yes
% individual or group of individuals	80.5	83.4	83.7	3.62	0.31	30%(+/-)	Yes	Yes
% allopathic and osteopathic physicians	54.5	58.0	57.5	6.53	-0.92	30%(+/-)	Yes	Yes
% behavioral health and social service providers	0.8	0.9	0.9	12.91	-0.38	30%(+/-)	Yes	Yes
% chiropractic providers	4.3	0.2	0.2	-96.40	-1.53	30%(+/-)	Yes	Yes
% dental providers	3.1	3.4	3.5	10.00	1.05	30%(+/-)	Yes	Yes
% dietary and nutritional service providers	0.0	0.0	0.0	-42.91	-21.90	30%(+/-)	Yes	Yes
% emergency medical service providers	0.0	0.0	0.0	31.75	-6.28	30%(+/-)	Yes	Yes
% eye and vision service providers	2.2	2.3	2.2	2.40	-2.26	30%(+/-)	Yes	Yes
% nursing service providers	0.1	0.1	0.2	16.86	28.54	30%(+/-)	Yes	Yes
% nursing service-related providers	0.0	0.0	0.0	-4.85	-6.28	30%(+/-)	Yes	Yes
% other service providers	2.3	3.5	3.3	50.53	-7.11	30%(+/-)	Yes	Yes
% pharmacy service providers	0.5	0.4	0.4	-16.55	-9.67	30%(+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	9.8	11.6	12.3	18.58	6.15	30%(+/-)	Yes	Yes
% podiatric medicine and surgery service providers	0.3	0.3	0.3	15.64	-0.38	30%(+/-)	Yes	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.1	1.4	1.3	19.68	-0.96	30%(+/-)	Yes	Yes
% speech, language, and hearing service providers	0.5	0.7	0.7	29.72	8.23	30%(+/-)	Yes	Yes
% student health care	0.2	0.4	0.8	184.21	71.35	30%(+/-)	Yes	Yes
% technologists, technicians, and other technical service providers	0.4	0.0	0.0	-96.48	-6.28	30%(+/-)	Yes	Yes
% group of individuals with multi- or single specialty	0.2	0.0	0.0	-100.00	Div by 0	30%(+/-)	Yes	N/A
% nonindividuals	19.5	16.6	16.3	-14.93	-1.56	30%(+/-)	Yes	Yes
% agencies	3.4	2.3	2.3	-30.72	-0.03	30%(+/-)	Yes	Yes
% ambulatory health care facilities	1.7	1.1	1.2	-33.63	7.11	30%(+/-)	Yes	Yes
% hospital units	0.1	0.1	0.1	19.82	32.32	30%(+/-)	Yes	Yes
% hospitals	2.6	1.9	2.1	-26.55	13.13	30%(+/-)	Yes	Yes
% laboratories	0.6	0.7	0.7	20.46	-3.65	30%(+/-)	Yes	Yes
% managed care organizations	0.2	0.0	0.0	-72.97	-6.28	30%(+/-)	Yes	Yes
% nursing and custodial care facilities	1.0	0.9	0.8	-6.92	-6.07	30%(+/-)	Yes	Yes
% residential treatment facilities	0.3	0.4	0.4	29.70	-6.28	30%(+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	470.92	-6.28	30%(+/-)	Yes	Yes
% suppliers	9.0	8.4	7.9	-6.71	-5.37	30%(+/-)	Yes	Yes
% transportation services	0.8	0.7	0.7	-5.37	-7.05	30%(+/-)	Yes	Yes
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>								
Number of provider IDs with entity type = individual	37,794	41,631	44,611	10.15	7.16	30%(+/-)	Yes	Yes
% a sole proprietorship	14.9	16.1	16.3	7.95	0.87	30%(+/-)	Yes	Yes
% not a sole proprietorship	73.9	76.3	76.7	3.35	0.48	30%(+/-)	Yes	Yes
% not answered	11.2	7.6	7.0	-32.67	-6.71	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>								
Number of provider IDs with entity type = organization	10,415	10,058	10,546	-3.43	4.85	30%(+/-)	Yes	Yes
% organization is a subpart	13.9	14.3	13.5	3.12	-5.22	30%(+/-)	Yes	Yes
% organization is not a subpart	59.1	64.8	64.6	9.53	-0.28	30%(+/-)	Yes	Yes
% not answered	27.0	20.9	21.9	-22.48	4.43	N/A	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2011.

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