

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

**State-Specific Validation Tables,  
2011**

June 28, 2013

Deo Bencio  
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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: OR  
Produced: 05/20/2013

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>a</sup>
<b>IP Providers</b>								
Number of provider IDs	337	334	325	-0.89	-2.69	30% (+/-)	Yes	Yes
% billing provider on IP claim	54.9	54.8	55.1	-0.19	0.52	N/A	N/A	N/A
% NPI billing provider on IP claim	45.1	45.2	44.9	0.24	-0.63	N/A	N/A	N/A
% also a provider on LT claim	8.3	8.4	9.2	0.89	10.11	N/A	N/A	N/A
% also a provider on OT claim	55.8	55.4	77.2	-0.71	39.43	N/A	N/A	N/A
% also a provider on RX claim	19.9	9.9	11.4	-50.30	15.23	N/A	N/A	N/A
% provider IDs with NPI	93.5	95.2	93.8	1.86	-1.43	30% (+/-)	Yes	Yes
% provider IDs linked to NPES	93.5	95.2	93.8	1.86	-1.43	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	386.3	393.9	403.7	1.95	2.50	30% (+/-)	Yes	Yes
average number of beneficiaries with IP claims	331.6	335.8	341.3	1.28	1.63	30% (+/-)	Yes	Yes
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	315	318	305	0.95	-4.09	30% (+/-)	Yes	Yes
% NPI source = MSIS	97.5	97.2	97.4	-0.30	0.21	30% (+/-)	Yes	Yes
% NPI source = NPES	2.5	2.8	2.6	11.42	-7.32	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 NPES</b>								
Number of provider IDs linked to NPES	315	318	305	0.95	-4.09	30% (+/-)	Yes	Yes
% linked via NPI	97.5	97.2	97.4	-0.30	0.21	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	1.6	1.9	1.6	18.90	-13.12	30% (+/-)	Yes	Yes
% linked via Medicare UPIN	1.0	0.9	1.0	-0.95	4.31	30% (+/-)	Yes	Yes
% with name prefix	0.3	0.3	0.3	-0.95	4.42	30% (+/-)	Yes	Yes
% with first name	0.6	0.6	0.7	-0.94	4.25	30% (+/-)	Yes	Yes
% with middle name	0.6	0.6	0.7	-0.94	4.25	30% (+/-)	Yes	Yes
% with last name	0.6	0.6	0.7	-0.94	4.25	30% (+/-)	Yes	Yes
% with name suffix	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% male	0.3	0.3	0.3	-0.95	4.42	30% (+/-)	Yes	Yes
% female	0.3	0.3	0.3	-0.95	4.42	30% (+/-)	Yes	Yes
% with credential	0.6	0.6	0.7	-0.94	4.25	30% (+/-)	Yes	Yes
% with business name	99.4	99.4	99.3	0.01	-0.03	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	50.2	50.0	53.1	-0.32	6.23	30% (+/-)	Yes	Yes
% with zip code	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with primary taxonomy	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with provider entity type = individual	0.6	0.6	0.7	-0.94	4.25	30% (+/-)	Yes	Yes
% with provider entity type = organization	99.4	99.4	99.3	0.01	-0.03	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: OR  
Produced: 05/20/2013

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>a</sup>
<b>Provider IDs with NPPES Primary Taxonomy</b>								
Number of provider IDs with NPPES primary taxonomy	315	318	305	0.95	-4.09	30% (+/-)	Yes	Yes
% individual or group of individuals	0.3	1.9	0.7	495.27	-65.25	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	0.3	1.9	0.7	495.27	-65.25	30% (+/-)	Yes	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	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	99.7	98.1	99.3	-1.57	1.25	30% (+/-)	Yes	Yes
% agencies	1.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% ambulatory health care facilities	3.2	0.6	0.7	-80.19	4.25	30% (+/-)	Yes	Yes
% hospital units	10.8	10.4	10.5	-3.86	1.11	30% (+/-)	Yes	Yes
% hospitals	81.6	85.2	86.9	4.45	1.95	30% (+/-)	Yes	Yes
% laboratories	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% managed care organizations	1.6	1.3	1.3	-20.73	4.25	30% (+/-)	Yes	Yes
% 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	0.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% respite care facility	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% suppliers	0.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% transportation services	0.6	0.6	0.0	-0.94	-100.00	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	2	2	2	0.00	0.00	30% (+/-)	Yes	Yes
% a sole proprietorship	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% not a sole proprietorship	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% 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	313	316	303	0.96	-4.11	30% (+/-)	Yes	Yes
% organization is a subpart	17.6	18.4	20.1	4.45	9.69	30% (+/-)	Yes	Yes
% organization is not a subpart	77.6	75.0	75.6	-3.40	0.77	30% (+/-)	Yes	Yes
% not answered	4.8	6.6	4.3	38.69	-35.44	N/A	N/A	N/A

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

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2009-2011 MAX LT Billing Provider Characteristics Validation Table  
State: OR  
Produced: 05/20/2013

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>a</sup>
<b>LT Providers</b>								
Number of provider IDs	341	348	347	2.05	-0.29	30% (+/-)	Yes	Yes
% billing provider on LT claim	54.5	55.5	54.5	1.68	-1.79	N/A	N/A	N/A
% NPI billing provider on LT claim	45.5	44.5	45.5	-2.01	2.23	N/A	N/A	N/A
% also a provider on IP claim	8.2	8.0	8.6	-2.01	7.45	N/A	N/A	N/A
% also a provider on OT claim	16.7	11.5	10.4	-31.24	-9.74	N/A	N/A	N/A
% also a provider on RX claim	4.7	4.3	4.0	-8.14	-6.39	N/A	N/A	N/A
% provider IDs with NPI	95.3	95.1	95.1	-0.20	-0.01	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	94.7	95.1	95.1	0.42	-0.01	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	661.3	577.0	566.8	-12.74	-1.77	30% (+/-)	Yes	Yes
average number of beneficiaries with LT claims	69.1	69.8	68.5	1.02	-1.90	30% (+/-)	Yes	Yes
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	325	331	330	1.85	-0.30	30% (+/-)	Yes	Yes
% NPI source = MSIS	97.5	95.5	97.9	-2.12	2.53	30% (+/-)	Yes	Yes
% NPI source = NPPES	2.5	4.5	2.1	84.08	-53.19	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	323	331	330	2.48	-0.30	30% (+/-)	Yes	Yes
% linked via NPI	97.5	95.5	97.9	-2.11	2.53	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	1.5	3.6	1.5	134.17	-58.20	30% (+/-)	Yes	Yes
% linked via Medicare UPIN	0.9	0.9	0.6	-2.48	-33.11	30% (+/-)	Yes	Yes
% with name prefix	0.3	0.3	0.3	-2.58	0.34	30% (+/-)	Yes	Yes
% with first name	0.6	0.6	0.6	-2.42	0.34	30% (+/-)	Yes	Yes
% with middle name	0.6	0.6	0.6	-2.42	0.34	30% (+/-)	Yes	Yes
% with last name	0.6	0.6	0.6	-2.42	0.34	30% (+/-)	Yes	Yes
% with name suffix	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% male	0.3	0.3	0.3	-2.58	0.34	30% (+/-)	Yes	Yes
% female	0.3	0.3	0.3	-2.58	0.34	30% (+/-)	Yes	Yes
% with credential	0.6	0.6	0.6	-2.42	0.34	30% (+/-)	Yes	Yes
% with business name	99.4	99.4	99.4	0.02	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 = LT state code	98.8	98.8	97.3	0.03	-1.54	30% (+/-)	Yes	Yes
% with zip code	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with primary taxonomy	99.7	95.2	95.5	-4.54	0.30	30% (+/-)	Yes	Yes
% with provider entity type = individual	0.6	0.6	0.6	-2.42	0.34	30% (+/-)	Yes	Yes
% with provider entity type = organization	99.4	99.4	99.4	0.02	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.

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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 LT Billing Provider Characteristics Validation Table  
State: OR  
Produced: 05/20/2013

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>a</sup>
<b>Provider IDs with NPPES Primary Taxonomy</b>								
Number of provider IDs with NPPES primary taxonomy	324	315	315	-2.78	0.00	30% (+/-)	Yes	Yes
% individual or group of individuals	0.9	0.6	0.6	-31.43	-0.01	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	0.9	0.6	0.6	-31.43	-0.01	30% (+/-)	Yes	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	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	99.1	99.4	99.4	0.29	0.00	30% (+/-)	Yes	Yes
% agencies	1.9	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% ambulatory health care facilities	1.2	0.6	0.3	-48.58	-50.01	30% (+/-)	Yes	Yes
% hospital units	1.9	2.5	1.9	37.15	-25.01	30% (+/-)	Yes	Yes
% hospitals	2.5	3.5	3.8	41.43	9.09	30% (+/-)	Yes	Yes
% laboratories	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% managed care organizations	1.5	1.3	1.3	-17.69	-0.01	30% (+/-)	Yes	Yes
% nursing and custodial care facilities	77.8	84.8	84.4	8.98	-0.37	30% (+/-)	Yes	Yes
% residential treatment facilities	10.5	6.7	7.6	-36.47	14.28	30% (+/-)	No	Yes
% respite care facility	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% suppliers	0.6	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% transportation services	1.2	0.0	0.0	-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	2	2	2	0.00	0.00	30% (+/-)	Yes	Yes
% a sole proprietorship	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% not a sole proprietorship	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% 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	321	329	328	2.49	-0.30	30% (+/-)	Yes	Yes
% organization is a subpart	15.9	16.7	16.8	5.22	0.31	30% (+/-)	Yes	Yes
% organization is not a subpart	50.5	55.6	55.8	10.22	0.31	30% (+/-)	Yes	Yes
% not answered	33.6	27.7	27.4	-17.79	-0.80	N/A	N/A	N/A

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

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<sup>b</sup> "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: OR  
Produced: 05/20/2013

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>a</sup>
<b>OT Providers</b>								
Number of provider IDs	40,211	47,710	66,742	18.65	39.89	30% (+/-)	Yes	No
% billing provider on OT claim	10.3	17.3	39.1	68.12	125.71	N/A	N/A	N/A
% servicing provider on OT claim	75.3	76.9	84.3	2.14	9.60	N/A	N/A	N/A
% NPI servicing provider on OT claim	47.7	40.6	28.4	-14.81	-30.20	N/A	N/A	N/A
% also a provider on IP claim	0.1	0.1	0.2	-21.71	70.60	N/A	N/A	N/A
% also a provider on LT claim	0.1	0.0	0.0	-57.50	-47.12	N/A	N/A	N/A
% also a provider on RX claim	33.1	24.6	19.2	-25.72	-21.70	N/A	N/A	N/A
% provider IDs with NPI	94.7	84.0	59.9	-11.35	-28.61	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	94.5	84.0	59.9	-11.13	-28.61	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	656.6	585.0	490.4	-10.90	-16.18	30% (+/-)	Yes	Yes
average number of beneficiaries with OT claims	133.0	123.8	103.8	-6.93	-16.12	30% (+/-)	Yes	Yes
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	38,088	40,061	40,007	5.18	-0.13	30% (+/-)	Yes	Yes
% NPI source = MSIS	99.8	99.1	99.0	-0.63	-0.14	30% (+/-)	Yes	Yes
% NPI source = NPPES	0.2	0.9	1.0	267.09	16.39	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	37,993	40,061	40,007	5.44	-0.13	30% (+/-)	Yes	Yes
% linked via NPI	99.8	99.1	99.0	-0.63	-0.14	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	0.1	0.2	0.2	72.22	-0.94	30% (+/-)	Yes	Yes
% linked via Medicare UPIN	0.1	0.6	0.8	494.44	22.25	30% (+/-)	Yes	Yes
% with name prefix	39.7	39.6	40.3	-0.07	1.62	30% (+/-)	Yes	Yes
% with first name	90.0	90.0	90.3	0.00	0.30	30% (+/-)	Yes	Yes
% with middle name	74.2	73.9	74.0	-0.32	0.07	30% (+/-)	Yes	Yes
% with last name	90.0	90.0	90.3	0.00	0.30	30% (+/-)	Yes	Yes
% with name suffix	1.8	1.8	1.7	-4.19	-1.44	30% (+/-)	Yes	Yes
% male	55.9	54.6	53.0	-2.22	-2.95	30% (+/-)	Yes	Yes
% female	34.1	35.4	37.3	3.65	5.34	30% (+/-)	Yes	Yes
% with credential	87.8	87.9	88.0	0.03	0.21	30% (+/-)	Yes	Yes
% with business name	10.0	9.5	9.5	-4.66	-0.60	30% (+/-)	Yes	Yes
% with address line 1	100.0	99.5	99.8	-0.46	0.22	30% (+/-)	Yes	Yes
% with city	100.0	99.5	99.8	-0.46	0.22	30% (+/-)	Yes	Yes
% with state	100.0	99.5	99.8	-0.46	0.22	30% (+/-)	Yes	Yes
% state = OT state code	75.4	72.5	75.1	-3.85	3.54	30% (+/-)	Yes	Yes
% with zip code	100.0	99.5	99.8	-0.46	0.22	30% (+/-)	Yes	Yes
% with primary taxonomy	99.9	97.8	98.1	-2.15	0.30	30% (+/-)	Yes	Yes
% with provider entity type = individual	90.0	90.0	90.3	0.00	0.30	30% (+/-)	Yes	Yes
% with provider entity type = organization	10.0	9.5	9.5	-4.66	-0.60	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: OR  
Produced: 05/20/2013

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>a</sup>
<b>Provider IDs with NPPES Primary Taxonomy</b>								
Number of provider IDs with NPPES primary taxonomy	38,059	39,168	39,232	2.91	0.16	30% (+/-)	Yes	Yes
% individual or group of individuals	91.1	91.5	91.6	0.41	0.07	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	58.0	58.3	55.8	0.40	-4.24	30% (+/-)	Yes	Yes
% behavioral health and social service providers	2.8	3.0	4.0	8.76	29.92	30% (+/-)	Yes	Yes
% chiropractic providers	0.7	0.6	0.7	-2.58	14.56	30% (+/-)	Yes	Yes
% dental providers	5.2	5.4	5.8	3.38	8.08	30% (+/-)	Yes	Yes
% dietary and nutritional service providers	0.2	0.2	0.2	16.87	24.82	30% (+/-)	Yes	Yes
% emergency medical service providers	0.1	0.1	0.1	-21.13	-6.69	30% (+/-)	Yes	Yes
% eye and vision service providers	2.1	2.1	2.1	-1.10	-0.53	30% (+/-)	Yes	Yes
% nursing service providers	1.4	1.1	1.1	-20.38	-0.61	30% (+/-)	Yes	Yes
% nursing service-related providers	0.0	0.0	0.0	-61.54	-100.00	30% (+/-)	Yes	Yes
% other service providers	3.8	3.1	3.0	-17.26	-2.62	30% (+/-)	Yes	Yes
% pharmacy service providers	0.0	0.0	0.0	-70.59	1.96	30% (+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	10.5	11.8	12.8	12.28	9.22	30% (+/-)	Yes	Yes
% podiatric medicine and surgery service providers	0.8	0.7	0.8	-6.21	8.78	30% (+/-)	Yes	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	3.5	3.8	3.7	7.01	-1.23	30% (+/-)	Yes	Yes
% speech, language, and hearing service providers	1.0	1.0	0.9	-2.58	-7.15	30% (+/-)	Yes	Yes
% student health care	0.4	0.3	0.4	-27.99	43.11	30% (+/-)	Yes	Yes
% technologists, technicians, and other technical service providers	0.1	0.0	0.0	-23.33	5.28	30% (+/-)	Yes	Yes
% group of individuals with multi- or single specialty	0.6	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nonindividuals	8.9	8.5	8.4	-4.24	-0.70	30% (+/-)	Yes	Yes
% agencies	1.0	0.9	0.9	-10.09	4.42	30% (+/-)	Yes	Yes
% ambulatory health care facilities	1.8	1.5	1.6	-15.50	4.07	30% (+/-)	Yes	Yes
% hospital units	0.0	0.0	0.0	-44.44	52.94	30% (+/-)	Yes	Yes
% hospitals	0.2	0.2	0.4	-0.48	93.91	30% (+/-)	Yes	Yes
% laboratories	0.7	0.8	0.9	8.68	4.59	30% (+/-)	Yes	Yes
% managed care organizations	0.0	0.0	0.0	16.67	-27.17	30% (+/-)	Yes	Yes
% nursing and custodial care facilities	0.1	0.1	0.1	109.09	-4.69	30% (+/-)	Yes	Yes
% residential treatment facilities	0.4	0.4	0.5	-5.24	13.35	30% (+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	-61.54	1.96	30% (+/-)	Yes	Yes
% suppliers	3.6	3.4	3.1	-4.25	-9.01	30% (+/-)	Yes	Yes
% transportation services	1.0	1.1	1.0	5.77	-12.18	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	34,200	36,063	36,124	5.45	0.17	30% (+/-)	Yes	Yes
% a sole proprietorship	17.0	17.3	17.6	1.75	1.85	30% (+/-)	Yes	Yes
% not a sole proprietorship	73.5	76.2	76.3	3.61	0.15	30% (+/-)	Yes	Yes
% not answered	9.5	6.5	6.1	-31.15	-6.65	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>								
Number of provider IDs with entity type = organization	3,793	3,813	3,785	0.53	-0.73	30% (+/-)	Yes	Yes
% organization is a subpart	11.0	12.2	13.8	10.43	13.55	30% (+/-)	Yes	Yes
% organization is not a subpart	65.0	70.2	69.5	7.86	-0.88	30% (+/-)	Yes	Yes
% not answered	23.9	17.7	16.6	-26.16	-5.83	N/A	N/A	N/A

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State: OR  
Produced: 05/20/2013

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<b>OT Providers</b>								
Number of provider IDs	30,347	30,149	30,419	-0.65	0.90	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	13.7	27.4	85.8	100.78	212.94	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	0.5	0.5	0.5	-2.08	-0.89	N/A	N/A	N/A
% also a provider on LT claim	0.1	0.1	0.1	-26.23	-8.68	N/A	N/A	N/A
% also a provider on RX claim	2.3	0.4	0.2	-81.58	-62.10	N/A	N/A	N/A
% provider IDs with NPI	15.0	14.1	13.0	-6.09	-8.00	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	15.0	14.1	13.0	-5.86	-8.00	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	1,152.8	1,347.8	1,495.7	16.92	10.97	30% (+/-)	Yes	Yes
average number of beneficiaries with OT claims	100.2	110.2	114.8	10.00	4.20	30% (+/-)	Yes	Yes
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	4,553	4,248	3,943	-6.70	-7.18	30% (+/-)	Yes	Yes
% NPI source = MSIS	82.5	81.3	81.1	-1.47	-0.19	30% (+/-)	Yes	Yes
% NPI source = NPPES	17.5	18.7	18.9	6.91	0.82	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	4,542	4,248	3,943	-6.47	-7.18	30% (+/-)	Yes	Yes
% linked via NPI	82.5	81.3	81.1	-1.42	-0.19	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	14.5	15.6	15.8	7.08	1.71	30% (+/-)	Yes	Yes
% linked via Medicare UPIN	3.0	3.2	3.0	4.58	-3.51	30% (+/-)	Yes	Yes
% with name prefix	27.7	25.8	24.7	-6.91	-4.54	30% (+/-)	Yes	Yes
% with first name	51.0	47.5	45.4	-6.92	-4.44	30% (+/-)	Yes	Yes
% with middle name	44.1	40.9	39.3	-7.43	-3.75	30% (+/-)	Yes	Yes
% with last name	51.0	47.5	45.4	-6.92	-4.44	30% (+/-)	Yes	Yes
% with name suffix	1.2	1.0	0.9	-18.84	-2.76	30% (+/-)	Yes	Yes
% male	33.5	30.5	28.6	-8.88	-6.39	30% (+/-)	Yes	Yes
% female	17.5	17.0	16.8	-3.15	-0.93	30% (+/-)	Yes	Yes
% with credential	49.9	46.2	44.0	-7.47	-4.74	30% (+/-)	Yes	Yes
% with business name	49.0	52.0	54.3	6.20	4.42	30% (+/-)	Yes	Yes
% with address line 1	100.0	99.5	99.7	-0.49	0.19	30% (+/-)	Yes	Yes
% with city	100.0	99.5	99.7	-0.49	0.19	30% (+/-)	Yes	Yes
% with state	100.0	99.5	99.7	-0.49	0.19	30% (+/-)	Yes	Yes
% state = OT state code	86.4	86.1	86.1	-0.43	-0.01	30% (+/-)	Yes	Yes
% with zip code	100.0	99.5	99.7	-0.49	0.19	30% (+/-)	Yes	Yes
% with primary taxonomy	99.6	96.7	96.7	-2.94	0.05	30% (+/-)	Yes	Yes
% with provider entity type = individual	51.0	47.5	45.4	-6.92	-4.44	30% (+/-)	Yes	Yes
% with provider entity type = organization	49.0	52.0	54.3	6.20	4.42	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

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State: OR  
Produced: 05/20/2013

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>a</sup>
<b>Provider IDs with NPES Primary Taxonomy</b>								
Number of provider IDs with NPES primary taxonomy	4,534	4,106	3,813	-9.44	-7.14	30% (+/-)	Yes	Yes
% individual or group of individuals	62.7	60.2	58.5	-3.96	-2.82	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	32.5	32.2	30.5	-0.75	-5.33	30% (+/-)	Yes	Yes
% behavioral health and social service providers	4.3	4.4	4.8	2.03	8.26	30% (+/-)	Yes	Yes
% chiropractic providers	1.4	1.3	1.6	-5.40	21.66	30% (+/-)	Yes	Yes
% dental providers	4.2	3.4	2.5	-19.23	-27.17	30% (+/-)	Yes	Yes
% dietary and nutritional service providers	0.0	0.0	0.1	11.36	60.57	30% (+/-)	Yes	Yes
% emergency medical service providers	0.1	0.1	0.2	32.73	7.78	30% (+/-)	Yes	Yes
% eye and vision service providers	3.2	3.0	3.1	-4.16	2.53	30% (+/-)	Yes	Yes
% nursing service providers	3.7	3.8	4.2	2.64	10.41	30% (+/-)	Yes	Yes
% nursing service-related providers	0.0	0.0	0.0	9.09	-100.00	30% (+/-)	Yes	Yes
% other service providers	5.4	5.5	5.3	1.47	-4.64	30% (+/-)	Yes	Yes
% pharmacy service providers	0.0	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% physician assistants and advanced practice nursing providers	2.5	2.5	2.3	1.65	-10.96	30% (+/-)	Yes	Yes
% podiatric medicine and surgery service providers	1.6	1.6	1.8	2.62	12.61	30% (+/-)	Yes	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.2	1.2	1.3	0.57	7.69	30% (+/-)	Yes	Yes
% speech, language, and hearing service providers	0.7	0.6	0.7	-13.05	11.86	30% (+/-)	Yes	Yes
% student health care	0.1	0.0	0.0	-72.73	-100.00	30% (+/-)	Yes	Yes
% technologists, technicians, and other technical service providers	0.2	0.1	0.1	-38.69	-14.01	30% (+/-)	Yes	Yes
% group of individuals with multi- or single specialty	1.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nonindividuals	37.3	39.8	41.5	6.64	4.26	30% (+/-)	Yes	Yes
% agencies	5.0	5.2	5.7	3.12	11.24	30% (+/-)	Yes	Yes
% ambulatory health care facilities	9.5	10.2	11.1	7.33	9.75	30% (+/-)	Yes	Yes
% hospital units	0.2	0.1	0.2	-26.63	7.78	30% (+/-)	Yes	Yes
% hospitals	2.7	3.1	3.4	15.81	9.34	30% (+/-)	Yes	Yes
% laboratories	1.7	2.0	2.2	22.19	9.00	30% (+/-)	Yes	Yes
% managed care organizations	0.2	0.1	0.2	-5.19	7.78	30% (+/-)	Yes	Yes
% nursing and custodial care facilities	1.5	1.2	1.0	-23.19	-12.50	30% (+/-)	Yes	Yes
% residential treatment facilities	2.1	2.2	2.6	1.36	19.76	30% (+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% suppliers	11.5	12.5	11.7	8.73	-5.78	30% (+/-)	Yes	Yes
% transportation services	3.0	3.2	3.3	7.97	2.02	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	2,318	2,018	1,790	-12.94	-11.30	30% (+/-)	Yes	Yes
% a sole proprietorship	43.6	46.3	49.2	6.22	6.34	30% (+/-)	Yes	Yes
% not a sole proprietorship	44.6	45.2	42.5	1.43	-6.03	30% (+/-)	Yes	Yes
% not answered	11.8	8.5	8.3	-28.31	-2.43	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>								
Number of provider IDs with entity type = organization	2,224	2,209	2,141	-0.67	-3.08	30% (+/-)	Yes	Yes
% organization is a subpart	10.7	10.9	12.0	1.53	9.60	30% (+/-)	Yes	Yes
% organization is not a subpart	67.9	73.3	71.9	8.08	-1.98	30% (+/-)	Yes	Yes
% not answered	21.4	15.8	16.2	-26.39	2.58	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: OR  
Produced: 05/20/2013

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>a</sup>
<b>RX Providers</b>								
Number of provider IDs	1,469	1,497	1,501	1.91	0.27	30% (+/-)	Yes	Yes
% billing provider on RX claim	50.5	50.6	50.6	0.11	0.00	N/A	N/A	N/A
% prescribing provider on RX claim	15.1	11.6	13.7	-23.53	18.76	N/A	N/A	N/A
% NPI billing provider on RX claim	49.5	49.4	49.4	-0.12	0.00	N/A	N/A	N/A
% also a provider on IP claim	1.0	0.9	1.1	-1.89	14.01	N/A	N/A	N/A
% also a provider on LT claim	1.0	0.9	0.9	-1.89	-0.24	N/A	N/A	N/A
% also a provider on OT claim	30.2	29.1	18.8	-3.64	-35.49	N/A	N/A	N/A
% provider IDs with NPI	99.3	99.2	99.1	-0.05	-0.06	30% (+/-)	Yes	Yes
% provider IDs linked to NPES	99.3	99.2	99.1	-0.05	-0.06	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	5,247.5	5,694.1	6,515.4	8.51	14.42	30% (+/-)	Yes	Yes
average number of beneficiaries with RX claims	467.4	508.1	581.1	8.73	14.37	30% (+/-)	Yes	Yes
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	1,458	1,485	1,488	1.85	0.20	30% (+/-)	Yes	Yes
% NPI source = MSIS	99.7	99.7	99.7	0.01	0.00	30% (+/-)	Yes	Yes
% NPI source = NPES	0.3	0.3	0.3	-1.82	-0.07	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 NPES</b>								
Number of provider IDs linked to NPES	1,458	1,485	1,488	1.85	0.20	30% (+/-)	Yes	Yes
% linked via NPI	99.7	99.7	99.7	0.01	0.00	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	0.1	0.1	0.1	-1.46	-0.44	30% (+/-)	Yes	Yes
% linked via Medicare UPIN	0.1	0.1	0.1	-1.46	-0.44	30% (+/-)	Yes	Yes
% with name prefix	0.3	0.3	0.2	-1.75	-40.17	30% (+/-)	Yes	Yes
% with first name	0.6	0.6	0.5	-1.78	-22.37	30% (+/-)	Yes	Yes
% with middle name	0.6	0.6	0.5	-1.78	-22.37	30% (+/-)	Yes	Yes
% with last name	0.6	0.6	0.5	-1.78	-22.37	30% (+/-)	Yes	Yes
% with name suffix	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% male	0.6	0.6	0.5	-1.78	-22.37	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	0.3	-1.75	-0.29	30% (+/-)	Yes	Yes
% with business name	99.4	98.6	98.7	-0.80	0.14	30% (+/-)	Yes	Yes
% with address line 1	100.0	99.2	99.2	-0.81	0.00	30% (+/-)	Yes	Yes
% with city	100.0	99.2	99.2	-0.81	0.00	30% (+/-)	Yes	Yes
% with state	100.0	99.2	99.2	-0.81	0.00	30% (+/-)	Yes	Yes
% state = RX state code	91.2	89.9	89.9	-1.45	0.02	30% (+/-)	Yes	Yes
% with zip code	100.0	99.2	99.2	-0.81	0.00	30% (+/-)	Yes	Yes
% with primary taxonomy	99.7	96.6	96.6	-3.10	0.01	30% (+/-)	Yes	Yes
% with provider entity type = individual	0.6	0.6	0.5	-1.78	-22.37	30% (+/-)	Yes	Yes
% with provider entity type = organization	99.4	98.6	98.7	-0.80	0.14	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 Billing Provider Characteristics Validation Table  
State: OR  
Produced: 05/20/2013

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>a</sup>
<b>Provider IDs with NPPES Primary Taxonomy</b>								
Number of provider IDs with NPPES primary taxonomy	1,454	1,435	1,438	-1.31	0.21	30% (+/-)	Yes	Yes
% individual or group of individuals	4.7	2.6	2.3	-45.68	-10.98	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	0.1	0.1	0.1	1.45	-0.66	30% (+/-)	Yes	Yes
% behavioral health and social service providers	0.1	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	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	4.3	2.5	2.2	-42.10	-11.31	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	0.1	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	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	0.1	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nonindividuals	95.3	97.4	97.7	2.28	0.29	30% (+/-)	Yes	Yes
% agencies	0.1	0.1	0.1	0.72	0.06	30% (+/-)	Yes	Yes
% ambulatory health care facilities	0.4	0.3	0.3	-15.74	-0.08	30% (+/-)	Yes	Yes
% hospital units	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% hospitals	0.0	0.1	0.0	Div by 0	-100.00	30% (+/-)	N/A	Yes
% laboratories	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% managed care organizations	0.1	0.1	0.1	0.72	0.06	30% (+/-)	Yes	Yes
% 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	94.6	96.7	97.1	2.21	0.44	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	9	9	7	0.00	-22.22	30% (+/-)	Yes	Yes
% a sole proprietorship	66.7	66.7	57.1	0.00	-14.29	30% (+/-)	Yes	Yes
% not a sole proprietorship	11.1	11.1	14.3	0.00	28.57	30% (+/-)	Yes	Yes
% not answered	22.2	22.2	28.6	0.00	28.57	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>								
Number of provider IDs with entity type = organization	1,449	1,464	1,469	1.04	0.34	30% (+/-)	Yes	Yes
% organization is a subpart	15.0	16.5	16.9	9.87	2.13	30% (+/-)	Yes	Yes
% organization is not a subpart	73.6	76.0	75.9	3.15	-0.07	30% (+/-)	Yes	Yes
% not answered	11.3	7.5	7.2	-33.61	-3.97	N/A	N/A	N/A

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

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## 2009-2011 MAX RX Prescribing Provider Characteristics Validation Table

State: OR

Produced: 05/20/2013

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>a</sup>
<b>RX Providers</b>								
Number of provider IDs	21,646	17,040	20,980	-21.28	23.12	30% (+/-)	Yes	Yes
% billing provider on RX claim	0.0	0.0	0.0	-100.00	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	1.0	1.0	1.0	-0.10	-3.26	N/A	N/A	N/A
% also a provider on IP claim	0.2	0.1	0.1	-54.29	-10.63	N/A	N/A	N/A
% also a provider on LT claim	0.0	0.0	0.0	-33.33	-100.00	N/A	N/A	N/A
% also a provider on OT claim	59.9	66.7	60.2	11.34	-9.78	N/A	N/A	N/A
% provider IDs with NPI	58.1	58.5	50.3	0.66	-13.97	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	58.0	58.5	50.3	0.79	-13.97	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	147.6	168.6	197.2	14.21	16.96	30% (+/-)	Yes	Yes
average number of beneficiaries with RX claims	18.5	21.5	28.7	16.45	33.15	30% (+/-)	Yes	No
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	12,576	9,965	10,555	-20.76	5.92	30% (+/-)	Yes	Yes
% NPI source = MSIS	99.4	99.9	99.9	0.48	0.03	30% (+/-)	Yes	Yes
% NPI source = NPPES	0.6	0.1	0.1	-79.87	-28.94	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	12,559	9,965	10,555	-20.65	5.92	30% (+/-)	Yes	Yes
% linked via NPI	99.4	99.9	99.9	0.48	0.03	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	0.4	0.0	0.0	-92.75	-36.84	30% (+/-)	Yes	Yes
% linked via Medicare UPIN	0.2	0.1	0.1	-50.82	-26.31	30% (+/-)	Yes	Yes
% with name prefix	42.4	43.1	43.4	1.63	0.83	30% (+/-)	Yes	Yes
% with first name	96.3	97.0	97.0	0.77	0.03	30% (+/-)	Yes	Yes
% with middle name	80.7	81.3	80.7	0.70	-0.65	30% (+/-)	Yes	Yes
% with last name	96.3	97.0	97.0	0.77	0.03	30% (+/-)	Yes	Yes
% with name suffix	2.0	1.9	2.0	-2.32	4.18	30% (+/-)	Yes	Yes
% male	59.4	57.2	55.5	-3.74	-3.02	30% (+/-)	Yes	Yes
% female	36.8	39.8	41.5	8.05	4.41	30% (+/-)	Yes	Yes
% with credential	94.7	95.4	95.3	0.71	-0.11	30% (+/-)	Yes	Yes
% with business name	3.8	2.6	2.7	-30.16	4.91	30% (+/-)	Yes	Yes
% with address line 1	100.0	99.6	99.8	-0.39	0.15	30% (+/-)	Yes	Yes
% with city	100.0	99.6	99.8	-0.39	0.15	30% (+/-)	Yes	Yes
% with state	100.0	99.6	99.8	-0.39	0.15	30% (+/-)	Yes	Yes
% state = RX state code	88.1	84.8	85.0	-3.74	0.22	30% (+/-)	Yes	Yes
% with zip code	100.0	99.6	99.8	-0.39	0.15	30% (+/-)	Yes	Yes
% with primary taxonomy	99.9	98.5	98.7	-1.39	0.14	30% (+/-)	Yes	Yes
% with provider entity type = individual	96.3	97.0	97.0	0.77	0.03	30% (+/-)	Yes	Yes
% with provider entity type = organization	3.8	2.6	2.7	-30.16	4.91	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 RX Prescribing Provider Characteristics Validation Table

State: OR  
Produced: 05/20/2013

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>a</sup>
<b>Provider IDs with NPPES Primary Taxonomy</b>								
Number of provider IDs with NPPES primary taxonomy	12,568	9,820	10,416	-21.87	6.07	30% (+/-)	Yes	Yes
% individual or group of individuals	96.7	97.6	97.4	1.00	-0.20	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	70.2	68.3	65.0	-2.70	-4.82	30% (+/-)	Yes	Yes
% behavioral health and social service providers	0.4	0.1	0.2	-76.41	66.97	30% (+/-)	Yes	Yes
% chiropractic providers	0.0	0.0	0.0	-16.67	-100.00	30% (+/-)	Yes	Yes
% dental providers	5.4	6.6	7.8	21.95	18.02	30% (+/-)	Yes	Yes
% dietary and nutritional service providers	0.0	0.0	0.0	25.00	-100.00	30% (+/-)	Yes	Yes
% emergency medical service providers	0.1	0.1	0.1	-14.29	-15.29	30% (+/-)	Yes	Yes
% eye and vision service providers	1.2	1.3	1.8	7.22	42.15	30% (+/-)	Yes	Yes
% nursing service providers	0.4	0.2	0.2	-53.38	-15.44	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	3.9	3.0	2.8	-22.67	-5.41	30% (+/-)	Yes	Yes
% pharmacy service providers	0.0	0.0	0.0	-58.33	44.01	30% (+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	13.0	16.6	18.0	27.91	8.01	30% (+/-)	Yes	Yes
% podiatric medicine and surgery service providers	0.8	0.9	1.0	23.95	4.42	30% (+/-)	Yes	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.1	0.1	0.1	-45.05	10.17	30% (+/-)	Yes	Yes
% speech, language, and hearing service providers	0.0	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% student health care	0.5	0.4	0.6	-7.16	39.07	30% (+/-)	Yes	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	-58.33	-3.99	30% (+/-)	Yes	Yes
% group of individuals with multi- or single specialty	0.7	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nonindividuals	3.3	2.4	2.6	-28.95	8.07	30% (+/-)	Yes	Yes
% agencies	0.1	0.1	0.1	-54.81	-5.57	30% (+/-)	Yes	Yes
% ambulatory health care facilities	0.9	0.3	0.3	-63.89	-8.85	30% (+/-)	Yes	Yes
% hospital units	0.0	0.0	0.0	-58.33	44.01	30% (+/-)	Yes	Yes
% hospitals	0.4	0.2	0.2	-47.29	7.67	30% (+/-)	Yes	Yes
% laboratories	0.0	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% managed care organizations	0.0	0.0	0.0	150.00	-100.00	30% (+/-)	Yes	Yes
% 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	-68.75	-3.99	30% (+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% suppliers	1.8	1.7	1.9	-4.71	12.69	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	12,088	9,665	10,240	-20.04	5.95	30% (+/-)	Yes	Yes
% a sole proprietorship	15.1	15.2	15.5	0.84	1.81	30% (+/-)	Yes	Yes
% not a sole proprietorship	74.7	78.9	78.7	5.54	-0.18	30% (+/-)	Yes	Yes
% not answered	10.2	5.9	5.8	-42.01	-2.29	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>								
Number of provider IDs with entity type = organization	471	261	290	-44.59	11.11	30% (+/-)	No	Yes
% organization is a subpart	13.8	7.7	13.4	-44.47	75.50	30% (+/-)	No	No
% organization is not a subpart	74.5	85.4	79.3	14.65	-7.18	30% (+/-)	Yes	Yes
% not answered	11.7	6.9	7.2	-40.94	4.99	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: OR  
Produced: 05/20/2013

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>a</sup>
<b>All Providers</b>								
Number of provider IDs	76,387	76,668	80,852	0.37	5.46	30%(+/-)	Yes	Yes
% billing provider on IP claim	0.2	0.2	0.2	-1.24	-7.37	N/A	N/A	N/A
% NPI billing provider on IP claim	0.2	0.2	0.2	-1.01	-8.34	N/A	N/A	N/A
% billing provider on LT claim	0.2	0.3	0.2	3.70	-7.24	N/A	N/A	N/A
% NPI billing provider on LT claim	0.2	0.2	0.2	-0.49	-3.26	N/A	N/A	N/A
% billing provider on OT claim	39.7	39.3	37.6	-1.02	-4.33	N/A	N/A	N/A
% servicing provider on OT claim	39.6	47.8	69.6	20.75	45.38	N/A	N/A	N/A
% NPI servicing provider on OT claim	25.1	25.3	23.4	0.71	-7.41	N/A	N/A	N/A
% billing provider on RX claim	1.0	1.0	0.9	1.65	-4.89	N/A	N/A	N/A
% prescribing provider on RX claim	28.3	22.2	25.9	-21.57	16.75	N/A	N/A	N/A
% NPI billing provider on RX claim	1.0	1.0	0.9	1.37	-4.90	N/A	N/A	N/A
% billing provider	40.8	40.4	38.7	-0.86	-4.12	N/A	N/A	N/A
% NPI billing provider	1.4	1.4	1.3	0.74	-5.24	N/A	N/A	N/A
% servicing provider	39.6	47.8	69.6	20.75	45.38	N/A	N/A	N/A
% NPI servicing provider	25.1	25.3	23.4	0.71	-7.41	N/A	N/A	N/A
% prescribing provider	28.3	22.2	25.9	-21.57	16.75	N/A	N/A	N/A
% provider IDs with NPI	53.0	55.3	52.3	4.34	-5.35	30%(+/-)	Yes	Yes
% provider IDs linked to NPPES	52.9	55.3	52.3	4.59	-5.35	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	847.6	939.6	1,024.1	10.86	8.99	30%(+/-)	Yes	Yes
average number of beneficiaries with claims	106.5	116.9	126.7	9.78	8.38	30%(+/-)	Yes	Yes
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	40,491	42,402	42,323	4.72	-0.19	30%(+/-)	Yes	Yes
% NPI source = MSIS	97.7	97.5	97.6	-0.23	0.14	30%(+/-)	Yes	Yes
% NPI source = NPPES	2.3	2.5	2.4	9.59	-5.26	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	40,394	42,402	42,323	4.97	-0.19	30%(+/-)	Yes	Yes
% linked via NPI	97.7	97.5	97.6	-0.22	0.14	30%(+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	1.8	1.7	1.6	-7.37	-6.17	30%(+/-)	Yes	Yes
% linked via Medicare UPIN	0.5	0.8	0.8	70.10	-3.47	30%(+/-)	Yes	Yes
% with name prefix	37.6	37.6	38.1	0.00	1.48	30%(+/-)	Yes	Yes
% with first name	85.1	85.3	85.4	0.19	0.22	30%(+/-)	Yes	Yes
% with middle name	70.1	70.0	70.0	-0.15	-0.01	30%(+/-)	Yes	Yes
% with last name	85.1	85.3	85.4	0.19	0.22	30%(+/-)	Yes	Yes
% with name suffix	1.7	1.7	1.6	-4.19	-1.67	30%(+/-)	Yes	Yes
% male	52.8	51.7	50.2	-2.01	-3.02	30%(+/-)	Yes	Yes
% female	32.3	33.5	35.3	3.79	5.21	30%(+/-)	Yes	Yes
% with credential	83.0	83.2	83.3	0.23	0.12	30%(+/-)	Yes	Yes
% with business name	14.9	14.3	14.3	-4.12	0.10	30%(+/-)	Yes	Yes
% with address line 1	100.0	99.6	99.7	-0.45	0.20	30%(+/-)	Yes	Yes
% with city	100.0	99.6	99.7	-0.45	0.20	30%(+/-)	Yes	Yes
% with state	100.0	99.6	99.7	-0.45	0.20	30%(+/-)	Yes	Yes
% state = claim file state code	75.9	73.2	75.9	-3.61	3.71	30%(+/-)	Yes	Yes
% with zip code	100.0	99.6	99.7	-0.45	0.20	30%(+/-)	Yes	Yes
% with primary taxonomy	99.9	97.7	98.0	-2.14	0.29	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: OR  
Produced: 05/20/2013

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>a</sup>
% with provider entity type = individual	85.1	85.3	85.4	0.19	0.22	30%(+/-)	Yes	Yes
% with provider entity type = organization	14.9	14.3	14.3	-4.12	0.10	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 NPPES Primary Taxonomy</b>								
Number of provider IDs with NPPES primary taxonomy	40,442	41,446	41,488	2.48	0.10	30%(+/-)	Yes	Yes
% individual or group of individuals	87.2	87.6	87.6	0.52	-0.09	30%(+/-)	Yes	Yes
% allopathic and osteopathic physicians	55.4	55.8	53.4	0.64	-4.28	30%(+/-)	Yes	Yes
% behavioral health and social service providers	2.7	2.9	3.7	8.01	29.24	30%(+/-)	Yes	Yes
% chiropractic providers	0.7	0.6	0.7	-2.87	10.41	30%(+/-)	Yes	Yes
% dental providers	4.9	5.1	5.5	3.66	7.98	30%(+/-)	Yes	Yes
% dietary and nutritional service providers	0.2	0.2	0.2	17.72	23.11	30%(+/-)	Yes	Yes
% emergency medical service providers	0.1	0.1	0.1	-20.90	-6.77	30%(+/-)	Yes	Yes
% eye and vision service providers	2.1	2.0	2.0	-0.88	-0.83	30%(+/-)	Yes	Yes
% nursing service providers	1.3	1.0	1.0	-20.26	-0.56	30%(+/-)	Yes	Yes
% nursing service-related providers	0.0	0.0	0.0	-60.00	-100.00	30%(+/-)	Yes	Yes
% other service providers	3.6	3.0	2.9	-16.64	-3.06	30%(+/-)	Yes	Yes
% pharmacy service providers	0.2	0.1	0.1	-42.86	-10.92	30%(+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	9.9	11.1	12.2	12.16	9.20	30%(+/-)	Yes	Yes
% podiatric medicine and surgery service providers	0.7	0.7	0.7	-5.09	8.29	30%(+/-)	Yes	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	3.4	3.6	3.6	7.28	-1.30	30%(+/-)	Yes	Yes
% speech, language, and hearing service providers	1.0	0.9	0.9	-2.39	-7.28	30%(+/-)	Yes	Yes
% student health care	0.4	0.3	0.4	-28.03	42.93	30%(+/-)	Yes	Yes
% technologists, technicians, and other technical service providers	0.1	0.1	0.1	-23.88	-0.75	30%(+/-)	Yes	Yes
% group of individuals with multi- or single specialty	0.6	0.0	0.0	-100.00	Div by 0	30%(+/-)	Yes	N/A
% nonindividuals	12.8	12.4	12.4	-3.53	0.62	30%(+/-)	Yes	Yes
% agencies	1.1	1.0	1.0	-9.41	3.16	30%(+/-)	Yes	Yes
% ambulatory health care facilities	2.1	1.8	1.8	-12.72	0.72	30%(+/-)	Yes	Yes
% hospital units	0.1	0.1	0.1	-6.03	-7.12	30%(+/-)	Yes	Yes
% hospitals	0.8	0.8	0.8	1.96	1.10	30%(+/-)	Yes	Yes
% laboratories	0.7	0.8	0.8	8.65	4.58	30%(+/-)	Yes	Yes
% managed care organizations	0.0	0.0	0.0	-2.50	-19.66	30%(+/-)	Yes	Yes
% nursing and custodial care facilities	0.8	0.8	0.7	-3.61	-3.90	30%(+/-)	Yes	Yes
% residential treatment facilities	0.4	0.4	0.5	-4.49	14.56	30%(+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	-58.33	-3.59	30%(+/-)	Yes	Yes
% suppliers	5.7	5.6	5.7	-2.59	1.88	30%(+/-)	Yes	Yes
% transportation services	1.0	1.1	0.9	5.11	-12.77	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	34,375	36,153	36,164	5.17	0.03	30%(+/-)	Yes	Yes
% a sole proprietorship	17.0	17.3	17.6	1.70	1.68	30%(+/-)	Yes	Yes
% not a sole proprietorship	73.5	76.1	76.3	3.62	0.20	30%(+/-)	Yes	Yes
% not answered	9.5	6.5	6.1	-31.11	-6.76	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>								
Number of provider IDs with entity type = organization	6,019	6,058	6,053	0.65	-0.08	30%(+/-)	Yes	Yes
% organization is a subpart	12.7	13.6	14.1	7.02	3.97	30%(+/-)	Yes	Yes
% organization is not a subpart	66.5	70.8	71.4	6.48	0.83	30%(+/-)	Yes	Yes
% not answered	20.8	15.6	14.5	-24.98	-7.22	N/A	N/A	N/A

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

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