

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

**State-Specific Validation Tables,
2011**

June 28, 2013

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Mei-ling Mason



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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.¹ The NPI is a unique 10-digit, sequentially assigned national identification number, unstructured so as not to carry any way information such as the state or medical specialty of the health care provider who “owns” the identifier. Beginning in February 2009, states were required to include NPIs on claims submitted to MSIS. The main limitation of this identifier, however, is that certain classes of nonmedical providers are not required to obtain an NPI. Nonetheless, the availability of the NPI on MSIS claims makes the development of a uniform provider characteristic file more feasible. The MAX Provider Characteristics (MAXPC) file is such a file.

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

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

¹ 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: WA

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 ^a	Cross Year 2010-2011 Within Range ^b
IP Providers								
Number of provider IDs	682	517	545	-24.19	5.42	30% (+/-)	Yes	Yes
% billing provider on IP claim	67.2	52.0	51.6	-22.52	-0.91	N/A	N/A	N/A
% NPI billing provider on IP claim	32.8	48.5	48.4	47.82	-0.22	N/A	N/A	N/A
% also a provider on LT claim	4.8	4.6	3.3	-4.06	-28.85	N/A	N/A	N/A
% also a provider on OT claim	81.8	79.3	82.9	-3.07	4.58	N/A	N/A	N/A
% also a provider on RX claim	2.9	7.4	7.7	150.64	4.85	N/A	N/A	N/A
% provider IDs with NPI	79.9	95.7	97.1	19.81	1.38	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	79.9	95.7	97.1	19.81	1.38	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	361.8	447.7	427.8	23.76	-4.44	30% (+/-)	Yes	Yes
average number of beneficiaries with IP claims	277.6	330.8	319.6	19.15	-3.37	30% (+/-)	Yes	Yes
Provider IDs with NPI								
Number of provider IDs with NPI	545	495	529	-9.17	6.87	30% (+/-)	Yes	Yes
% NPI source = MSIS	99.8	100.0	100.0	0.18	0.00	30% (+/-)	Yes	Yes
% NPI source = NPPES	0.2	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
Provider IDs Linked to NPPES								
Number of provider IDs linked to NPPES	545	495	529	-9.17	6.87	30% (+/-)	Yes	Yes
% linked via NPI	99.8	100.0	100.0	0.18	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	0.2	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% with name prefix	0.4	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% with first name	1.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% with middle name	1.1	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% with last name	1.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% with name suffix	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% male	1.1	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% female	0.2	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% with credential	1.1	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% with business name	98.7	100.0	100.0	1.30	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	63.3	43.2	40.3	-31.71	-6.86	30% (+/-)	No	Yes
% with zip code	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with primary taxonomy	99.6	99.6	100.0	-0.04	0.41	30% (+/-)	Yes	Yes
% with provider entity type = individual	1.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% with provider entity type = organization	98.7	100.0	100.0	1.30	0.00	30% (+/-)	Yes	Yes
Provider IDs with or without NPI but linked to state provider file								
Number of provider IDs with or without NPI linked to state provider file	0	0	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: WA

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 ^a	Cross Year 2010-2011 Within Range ^b
Provider IDs with NPPES Primary Taxonomy								
Number of provider IDs with NPPES primary taxonomy	543	493	529	-9.21	7.30	30% (+/-)	Yes	Yes
% individual or group of individuals	2.4	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% allopathic and osteopathic physicians	1.8	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	0.4	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	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	0.2	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	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	97.6	100.0	100.0	2.45	0.00	30% (+/-)	Yes	Yes
% agencies	0.4	0.4	0.0	10.14	-100.00	30% (+/-)	Yes	Yes
% ambulatory health care facilities	1.3	0.8	0.8	-37.06	-6.81	30% (+/-)	Yes	Yes
% hospital units	7.7	6.5	4.7	-16.08	-27.19	30% (+/-)	Yes	Yes
% hospitals	87.8	92.3	94.5	5.06	2.41	30% (+/-)	Yes	Yes
% laboratories	0.2	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% managed care organizations	0.2	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	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	0.0	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
Provider IDs with Entity Type = Individual								
Number of provider IDs with entity type = individual	7	0	0	-100.00	Div by 0	30% (+/-)	Yes	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	100.0	0.0	0.0	-100.00	Div by 0	30% (+/-)	No	N/A
% not answered	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs with Entity Type = Organization								
Number of provider IDs with entity type = organization	538	495	529	-7.99	6.87	30% (+/-)	Yes	Yes
% organization is a subpart	12.6	11.3	13.6	-10.49	20.31	30% (+/-)	Yes	Yes
% organization is not a subpart	82.5	84.2	83.0	2.08	-1.49	30% (+/-)	Yes	Yes
% not answered	4.8	4.4	3.4	-8.03	-23.44	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: WA

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 ^a	Cross Year 2010-2011 Within Range ^b
LT Providers								
Number of provider IDs	798	552	534	-30.83	-3.26	30% (+/-)	No	Yes
% billing provider on LT claim	66.3	51.3	50.6	-22.66	-1.38	N/A	N/A	N/A
% NPI billing provider on LT claim	33.7	48.9	49.4	45.10	1.07	N/A	N/A	N/A
% also a provider on IP claim	4.1	4.3	3.4	5.14	-22.47	N/A	N/A	N/A
% also a provider on OT claim	10.2	41.1	9.2	305.14	-77.69	N/A	N/A	N/A
% also a provider on RX claim	1.0	1.8	1.3	80.71	-27.64	N/A	N/A	N/A
% provider IDs with NPI	81.1	55.8	99.1	-31.18	77.54	30% (+/-)	No	No
% provider IDs linked to NPPES	81.0	55.8	99.1	-31.07	77.54	30% (+/-)	No	No
% 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	645.7	1,314.6	1,312.0	103.60	-0.20	30% (+/-)	No	Yes
average number of beneficiaries with LT claims	75.9	102.0	101.5	34.36	-0.44	30% (+/-)	No	Yes
Provider IDs with NPI								
Number of provider IDs with NPI	647	308	529	-52.40	71.75	30% (+/-)	No	No
% 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
Provider IDs Linked to NPPES								
Number of provider IDs linked to NPPES	646	308	529	-52.32	71.75	30% (+/-)	No	No
% 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 = LT state code	98.1	92.2	95.8	-6.05	3.94	30% (+/-)	Yes	Yes
% with zip code	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with primary taxonomy	99.7	98.1	98.1	-1.64	0.06	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
Provider IDs with or without NPI but linked to state provider file								
Number of provider IDs with or without NPI linked to state provider file	0	0	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: WA

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 ^a	Cross Year 2010-2011 Within Range ^b
Provider IDs with NPPES Primary Taxonomy								
Number of provider IDs with NPPES primary taxonomy	644	302	519	-53.11	71.85	30% (+/-)	No	No
% individual or group of individuals	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	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	0.0	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	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% agencies	0.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% ambulatory health care facilities	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% hospital units	7.8	9.6	7.7	23.68	-19.74	30% (+/-)	Yes	Yes
% hospitals	3.6	7.6	5.8	113.25	-24.10	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	88.4	82.5	86.1	-6.68	4.46	30% (+/-)	Yes	Yes
% residential treatment facilities	0.0	0.3	0.4	Div by 0	16.38	30% (+/-)	N/A	Yes
% 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	0.0	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
Provider IDs with Entity Type = Individual								
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
Provider IDs with Entity Type = Organization								
Number of provider IDs with entity type = organization	646	308	529	-52.32	71.75	30% (+/-)	No	No
% organization is a subpart	16.6	18.2	17.0	9.77	-6.43	30% (+/-)	Yes	Yes
% organization is not a subpart	68.3	67.2	69.0	-1.55	2.66	30% (+/-)	Yes	Yes
% not answered	15.2	14.6	14.0	-3.69	-4.26	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 OT Servicing Provider Characteristics Validation Table

State: WA

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 ^a	Cross Year 2010-2011 Within Range ^b
OT Providers								
Number of provider IDs	94,013	68,491	68,353	-27.15	-0.20	30% (+/-)	Yes	Yes
% billing provider on OT claim	20.7	12.2	9.7	-40.95	-20.42	N/A	N/A	N/A
% servicing provider on OT claim	67.7	51.3	50.0	-24.24	-2.49	N/A	N/A	N/A
% NPI servicing provider on OT claim	32.3	49.7	50.0	54.04	0.53	N/A	N/A	N/A
% also a provider on IP claim	0.5	0.6	0.7	13.69	10.22	N/A	N/A	N/A
% also a provider on LT claim	0.1	0.3	0.1	285.82	-79.77	N/A	N/A	N/A
% also a provider on RX claim	18.9	31.6	32.2	66.77	2.11	N/A	N/A	N/A
% provider IDs with NPI	79.1	99.0	99.9	25.06	0.98	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	78.7	98.5	99.5	25.22	1.01	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 OT claims	706.9	1,273.9	1,230.4	80.20	-3.41	30% (+/-)	No	Yes
average number of beneficiaries with OT claims	150.8	207.2	202.3	37.44	-2.41	30% (+/-)	No	Yes
Provider IDs with NPI								
Number of provider IDs with NPI	74,401	67,788	68,316	-8.89	0.78	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
Provider IDs Linked to NPPES								
Number of provider IDs linked to NPPES	73,945	67,455	67,997	-8.78	0.80	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	23.7	30.0	31.5	26.79	4.97	30% (+/-)	Yes	Yes
% with first name	65.8	82.3	85.7	25.04	4.13	30% (+/-)	Yes	Yes
% with middle name	53.5	66.5	68.8	24.34	3.43	30% (+/-)	Yes	Yes
% with last name	65.8	82.3	85.7	25.04	4.13	30% (+/-)	Yes	Yes
% with name suffix	1.2	1.5	1.5	19.86	1.60	30% (+/-)	Yes	Yes
% male	39.6	48.1	48.8	21.25	1.49	30% (+/-)	Yes	Yes
% female	26.2	34.3	36.9	30.78	7.83	30% (+/-)	No	Yes
% with credential	62.4	78.1	81.4	25.18	4.19	30% (+/-)	Yes	Yes
% with business name	34.2	17.4	14.1	-49.06	-18.89	30% (+/-)	No	Yes
% with address line 1	100.0	99.7	99.8	-0.27	0.11	30% (+/-)	Yes	Yes
% with city	100.0	99.7	99.8	-0.27	0.11	30% (+/-)	Yes	Yes
% with state	100.0	99.7	99.8	-0.27	0.11	30% (+/-)	Yes	Yes
% state = OT state code	86.4	81.9	80.2	-5.24	-2.08	30% (+/-)	Yes	Yes
% with zip code	100.0	99.7	99.8	-0.27	0.11	30% (+/-)	Yes	Yes
% with primary taxonomy	99.1	98.7	98.8	-0.46	0.16	30% (+/-)	Yes	Yes
% with provider entity type = individual	65.8	82.3	85.7	25.04	4.13	30% (+/-)	Yes	Yes
% with provider entity type = organization	34.2	17.4	14.1	-49.06	-18.89	30% (+/-)	No	Yes
Provider IDs with or without NPI but linked to state provider file								
Number of provider IDs with or without NPI linked to state provider file	0	0	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 OT Servicing Provider Characteristics Validation Table

State: WA

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 ^a	Cross Year 2010-2011 Within Range ^b
Provider IDs with NPPES Primary Taxonomy								
Number of provider IDs with NPPES primary taxonomy	73,583	66,547	67,187	-9.56	0.96	30% (+/-)	Yes	Yes
% individual or group of individuals	82.7	89.1	89.9	7.81	0.85	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	53.4	54.4	55.0	1.85	1.17	30% (+/-)	Yes	Yes
% behavioral health and social service providers	0.9	1.5	1.9	59.26	31.38	30% (+/-)	Yes	Yes
% chiropractic providers	0.1	0.2	0.1	107.82	-36.51	30% (+/-)	Yes	Yes
% dental providers	4.8	6.2	5.6	27.77	-8.61	30% (+/-)	Yes	Yes
% dietary and nutritional service providers	0.2	0.4	0.4	72.77	7.37	30% (+/-)	Yes	Yes
% emergency medical service providers	0.1	0.0	0.0	-55.77	-0.95	30% (+/-)	Yes	Yes
% eye and vision service providers	2.7	2.7	2.5	-0.56	-8.79	30% (+/-)	Yes	Yes
% nursing service providers	0.2	0.3	0.3	17.37	10.52	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	2.4	2.1	-0.16	-11.23	30% (+/-)	Yes	Yes
% pharmacy service providers	0.0	0.0	0.0	29.00	-29.25	30% (+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	10.1	12.9	13.7	27.43	6.57	30% (+/-)	Yes	Yes
% podiatric medicine and surgery service providers	0.9	0.9	0.8	-6.39	-7.89	30% (+/-)	Yes	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	4.7	5.7	5.6	20.42	-1.63	30% (+/-)	Yes	Yes
% speech, language, and hearing service providers	1.3	1.4	1.4	11.04	-4.27	30% (+/-)	Yes	Yes
% student health care	0.0	0.2	0.3	694.74	73.98	30% (+/-)	Yes	Yes
% technologists, technicians, and other technical service providers	0.1	0.0	0.0	-19.09	-27.37	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	17.3	10.9	10.1	-37.28	-6.97	30% (+/-)	No	Yes
% agencies	1.2	1.4	1.1	15.10	-22.17	30% (+/-)	Yes	Yes
% ambulatory health care facilities	6.7	2.7	2.3	-60.31	-11.93	30% (+/-)	Yes	Yes
% hospital units	0.1	0.0	0.0	-27.79	-31.90	30% (+/-)	Yes	Yes
% hospitals	2.3	1.5	1.7	-35.78	11.28	30% (+/-)	Yes	Yes
% laboratories	0.5	0.4	0.4	-17.85	7.33	30% (+/-)	Yes	Yes
% managed care organizations	1.7	0.0	0.0	-98.40	-33.97	30% (+/-)	Yes	Yes
% nursing and custodial care facilities	0.1	0.2	0.0	184.73	-84.61	30% (+/-)	Yes	Yes
% residential treatment facilities	0.1	0.1	0.1	52.04	-6.96	30% (+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	Div by 0	-0.95	30% (+/-)	N/A	Yes
% suppliers	4.1	4.0	3.8	-1.98	-5.71	30% (+/-)	Yes	Yes
% transportation services	0.7	0.6	0.7	-8.12	9.62	30% (+/-)	Yes	Yes
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs with Entity Type = Individual								
Number of provider IDs with entity type = individual	48,680	55,529	58,285	14.07	4.96	30% (+/-)	Yes	Yes
% a sole proprietorship	15.7	14.6	14.6	-6.99	-0.13	30% (+/-)	Yes	Yes
% not a sole proprietorship	78.2	80.4	80.7	2.83	0.44	30% (+/-)	Yes	Yes
% not answered	6.2	5.1	4.7	-18.14	-6.60	N/A	N/A	N/A
Provider IDs with Entity Type = Organization								
Number of provider IDs with entity type = organization	25,265	11,741	9,600	-53.53	-18.24	30% (+/-)	No	Yes
% organization is a subpart	12.3	13.6	14.1	10.65	3.67	30% (+/-)	Yes	Yes
% organization is not a subpart	74.8	69.5	70.7	-7.13	1.82	30% (+/-)	Yes	Yes
% not answered	12.9	16.9	15.2	31.11	-10.39	N/A	N/A	N/A

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

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2009-2011 MAX OT Billing Provider Characteristics Validation Table
State: WA
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 ^a	Cross Year 2010-2011 Within Range ^b
OT Providers								
Number of provider IDs	23,018	9,573	8,873	-58.41	-7.31	30% (+/-)	No	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	84.4	87.1	74.8	3.14	-14.09	N/A	N/A	N/A
% NPI servicing provider on OT claim	0.0	0.4	0.0	3,346.41	-92.47	N/A	N/A	N/A
% also a provider on IP claim	1.6	2.3	2.6	39.99	16.38	N/A	N/A	N/A
% also a provider on LT claim	0.2	1.1	0.3	442.28	-69.47	N/A	N/A	N/A
% also a provider on RX claim	6.8	9.5	9.3	38.82	-2.10	N/A	N/A	N/A
% provider IDs with NPI	45.8	83.5	74.5	82.55	-10.77	30% (+/-)	No	Yes
% provider IDs linked to NPPES	45.5	83.5	74.4	83.35	-10.81	30% (+/-)	No	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	1,953.2	5,571.0	5,838.9	185.22	4.81	30% (+/-)	No	Yes
average number of beneficiaries with OT claims	335.3	556.8	590.5	66.08	6.05	30% (+/-)	No	Yes
Provider IDs with NPI								
Number of provider IDs with NPI	10,532	7,996	6,613	-24.08	-17.30	30% (+/-)	Yes	Yes
% NPI source = MSIS	100.0	100.0	100.0	0.01	0.00	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
Provider IDs Linked to NPPES								
Number of provider IDs linked to NPPES	10,478	7,990	6,605	-23.74	-17.33	30% (+/-)	Yes	Yes
% linked via NPI	100.0	100.0	100.0	0.01	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	-100.00	Div by 0	30% (+/-)	Yes	N/A
% with name prefix	17.5	17.8	18.1	1.24	1.79	30% (+/-)	Yes	Yes
% with first name	30.1	29.4	29.8	-2.30	1.17	30% (+/-)	Yes	Yes
% with middle name	26.4	25.6	26.0	-3.05	1.78	30% (+/-)	Yes	Yes
% with last name	30.1	29.4	29.8	-2.30	1.17	30% (+/-)	Yes	Yes
% with name suffix	0.6	0.6	0.6	-6.93	1.72	30% (+/-)	Yes	Yes
% male	21.6	20.8	20.4	-3.47	-2.06	30% (+/-)	Yes	Yes
% female	8.5	8.6	9.4	0.66	9.00	30% (+/-)	Yes	Yes
% with credential	29.4	28.6	28.9	-2.74	1.36	30% (+/-)	Yes	Yes
% with business name	69.9	70.2	70.1	0.47	-0.21	30% (+/-)	Yes	Yes
% with address line 1	100.0	99.6	99.8	-0.36	0.20	30% (+/-)	Yes	Yes
% with city	100.0	99.6	99.8	-0.36	0.20	30% (+/-)	Yes	Yes
% with state	100.0	99.6	99.8	-0.36	0.20	30% (+/-)	Yes	Yes
% state = OT state code	91.4	87.6	84.8	-4.21	-3.20	30% (+/-)	Yes	Yes
% with zip code	100.0	99.6	99.8	-0.36	0.20	30% (+/-)	Yes	Yes
% with primary taxonomy	99.0	98.3	98.5	-0.69	0.21	30% (+/-)	Yes	Yes
% with provider entity type = individual	30.1	29.4	29.8	-2.30	1.17	30% (+/-)	Yes	Yes
% with provider entity type = organization	69.9	70.2	70.1	0.47	-0.21	30% (+/-)	Yes	Yes
Provider IDs with or without NPI but linked to state provider file								
Number of provider IDs with or without NPI linked to state provider file	0	0	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: WA

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 ^a	Cross Year 2010-2011 Within Range ^b
Provider IDs with NPPES Primary Taxonomy								
Number of provider IDs with NPPES primary taxonomy	10,389	7,855	6,507	-24.39	-17.16	30% (+/-)	Yes	Yes
% individual or group of individuals	57.7	56.2	49.8	-2.53	-11.53	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	25.5	22.6	18.3	-11.54	-18.77	30% (+/-)	Yes	Yes
% behavioral health and social service providers	1.6	2.2	2.5	37.84	12.34	30% (+/-)	Yes	Yes
% chiropractic providers	0.3	0.6	0.3	149.26	-53.19	30% (+/-)	Yes	Yes
% dental providers	8.9	13.1	12.8	47.16	-1.85	30% (+/-)	No	Yes
% dietary and nutritional service providers	0.1	0.1	0.0	10.22	-27.57	30% (+/-)	Yes	Yes
% emergency medical service providers	0.0	0.0	0.0	-66.94	20.72	30% (+/-)	Yes	Yes
% eye and vision service providers	5.2	4.9	4.3	-7.05	-11.12	30% (+/-)	Yes	Yes
% nursing service providers	0.7	0.5	0.5	-28.04	10.93	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	3.3	3.7	3.0	11.76	-19.38	30% (+/-)	Yes	Yes
% pharmacy service providers	0.1	0.1	0.1	46.96	8.64	30% (+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	2.3	1.9	1.9	-17.13	-0.07	30% (+/-)	Yes	Yes
% podiatric medicine and surgery service providers	2.0	1.5	1.4	-26.24	-7.38	30% (+/-)	Yes	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	3.8	3.5	3.3	-9.15	-5.47	30% (+/-)	Yes	Yes
% speech, language, and hearing service providers	1.5	1.5	1.1	-0.81	-26.56	30% (+/-)	Yes	Yes
% student health care	0.0	0.0	0.0	Div by 0	-39.64	30% (+/-)	N/A	Yes
% technologists, technicians, and other technical service providers	0.2	0.1	0.1	-30.39	-15.50	30% (+/-)	Yes	Yes
% group of individuals with multi- or single specialty	2.2	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nonindividuals	42.3	43.8	50.2	3.45	14.82	30% (+/-)	Yes	Yes
% agencies	3.9	5.6	5.3	43.99	-5.78	30% (+/-)	Yes	Yes
% ambulatory health care facilities	10.3	10.8	11.4	4.09	6.30	30% (+/-)	Yes	Yes
% hospital units	0.2	0.1	0.2	-27.26	20.72	30% (+/-)	Yes	Yes
% hospitals	4.6	6.1	8.3	32.81	36.03	30% (+/-)	Yes	Yes
% laboratories	1.4	1.5	1.9	5.27	28.97	30% (+/-)	Yes	Yes
% managed care organizations	1.2	0.1	0.1	-91.73	-24.55	30% (+/-)	Yes	Yes
% nursing and custodial care facilities	0.2	0.1	0.2	-73.55	201.79	30% (+/-)	Yes	Yes
% residential treatment facilities	0.3	0.4	0.5	41.38	16.82	30% (+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	Div by 0	20.72	30% (+/-)	N/A	Yes
% suppliers	17.4	16.6	19.0	-4.48	14.52	30% (+/-)	Yes	Yes
% transportation services	2.7	2.4	3.3	-10.74	37.15	30% (+/-)	Yes	Yes
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs with Entity Type = Individual								
Number of provider IDs with entity type = individual	3,157	2,352	1,967	-25.50	-16.37	30% (+/-)	Yes	Yes
% a sole proprietorship	53.4	55.4	57.2	3.81	3.25	30% (+/-)	Yes	Yes
% not a sole proprietorship	37.4	35.8	34.4	-4.30	-3.86	30% (+/-)	Yes	Yes
% not answered	9.2	8.8	8.3	-4.65	-4.81	N/A	N/A	N/A
Provider IDs with Entity Type = Organization								
Number of provider IDs with entity type = organization	7,321	5,609	4,627	-23.38	-17.51	30% (+/-)	Yes	Yes
% organization is a subpart	14.0	13.6	14.1	-2.84	3.75	30% (+/-)	Yes	Yes
% organization is not a subpart	69.1	69.4	70.8	0.45	1.97	30% (+/-)	Yes	Yes
% not answered	16.9	17.0	15.1	0.50	-11.05	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: WA

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 ^a	Cross Year 2010-2011 Within Range ^b
RX Providers								
Number of provider IDs	3,673	2,609	2,607	-28.97	-0.08	30% (+/-)	Yes	Yes
% billing provider on RX claim	72.3	52.7	52.2	-27.09	-0.94	N/A	N/A	N/A
% prescribing provider on RX claim	0.0	15.8	13.2	57,902.15	-16.44	N/A	N/A	N/A
% NPI billing provider on RX claim	27.7	47.3	47.8	70.65	1.05	N/A	N/A	N/A
% also a provider on IP claim	0.3	0.7	0.7	99.44	0.08	N/A	N/A	N/A
% also a provider on LT claim	0.2	0.2	0.2	40.78	-33.28	N/A	N/A	N/A
% also a provider on OT claim	57.0	67.2	61.4	17.97	-8.60	N/A	N/A	N/A
% provider IDs with NPI	70.6	96.3	97.7	36.44	1.43	30% (+/-)	No	Yes
% provider IDs linked to NPPES	69.9	96.3	97.7	37.71	1.43	30% (+/-)	No	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	4,369.0	8,378.2	6,806.1	91.76	-18.76	30% (+/-)	No	Yes
average number of beneficiaries with RX claims	488.6	642.5	557.1	31.49	-13.28	30% (+/-)	No	Yes
Provider IDs with NPI								
Number of provider IDs with NPI	2,592	2,512	2,546	-3.09	1.35	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
Provider IDs Linked to NPPES								
Number of provider IDs linked to NPPES	2,568	2,512	2,546	-2.18	1.35	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	99.1	99.5	-0.88	0.41	30% (+/-)	Yes	Yes
% with address line 1	100.0	99.1	99.5	-0.88	0.41	30% (+/-)	Yes	Yes
% with city	100.0	99.1	99.5	-0.88	0.41	30% (+/-)	Yes	Yes
% with state	100.0	99.1	99.5	-0.88	0.41	30% (+/-)	Yes	Yes
% state = RX state code	94.1	91.1	90.1	-3.19	-1.12	30% (+/-)	Yes	Yes
% with zip code	100.0	99.1	99.5	-0.88	0.41	30% (+/-)	Yes	Yes
% with primary taxonomy	99.5	97.8	98.4	-1.65	0.55	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	99.1	99.5	-0.88	0.41	30% (+/-)	Yes	Yes
Provider IDs with or without NPI but linked to state provider file								
Number of provider IDs with or without NPI linked to state provider file	0	0	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: WA

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 ^a	Cross Year 2010-2011 Within Range ^b
Provider IDs with NPPES Primary Taxonomy								
Number of provider IDs with NPPES primary taxonomy	2,571	2,457	2,504	-4.43	1.91	30% (+/-)	Yes	Yes
% individual or group of individuals	0.4	2.0	1.8	366.12	-7.88	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	0.0	0.0	0.0	Div by 0	-100.00	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	0.4	2.0	1.8	356.61	-5.97	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	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nonindividuals	99.6	98.0	98.2	-1.57	0.16	30% (+/-)	Yes	Yes
% agencies	0.2	0.3	0.2	83.12	-15.89	30% (+/-)	Yes	Yes
% ambulatory health care facilities	0.7	0.7	0.7	-1.17	3.89	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	0.2	0.2	318.56	22.65	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	0.1	0.0	0.0	-47.68	-100.00	30% (+/-)	Yes	Yes
% 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	98.6	96.8	97.0	-1.80	0.19	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
Provider IDs with Entity Type = Individual								
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
Provider IDs with Entity Type = Organization								
Number of provider IDs with entity type = organization	2,568	2,490	2,534	-3.04	1.77	30% (+/-)	Yes	Yes
% organization is a subpart	26.5	22.8	22.3	-13.85	-2.08	30% (+/-)	Yes	Yes
% organization is not a subpart	68.5	71.3	72.1	4.07	1.14	30% (+/-)	Yes	Yes
% not answered	5.0	5.9	5.5	17.64	-5.77	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 Prescribing Provider Characteristics Validation Table

State: WA

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 ^a	Cross Year 2010-2011 Within Range ^b
RX Providers								
Number of provider IDs	46,353	64,279	62,388	38.67	-2.94	30% (+/-)	No	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	0.0	0.6	0.6	Div by 0	-13.97	N/A	N/A	N/A
% also a provider on IP claim	0.0	0.0	0.0	98.31	21.76	N/A	N/A	N/A
% also a provider on LT claim	0.0	0.0	0.0	44.22	-22.73	N/A	N/A	N/A
% also a provider on OT claim	33.9	31.5	33.2	-7.10	5.37	N/A	N/A	N/A
% provider IDs with NPI	33.7	31.8	33.5	-5.58	5.26	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	33.6	31.8	33.5	-5.36	5.26	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	67.4	278.0	223.0	312.26	-19.78	30% (+/-)	No	Yes
average number of beneficiaries with RX claims	14.0	38.6	35.1	176.29	-9.19	30% (+/-)	No	Yes
Provider IDs with NPI								
Number of provider IDs with NPI	15,602	20,428	20,870	30.93	2.16	30% (+/-)	No	Yes
% NPI source = MSIS	99.7	99.5	99.6	-0.29	0.15	30% (+/-)	Yes	Yes
% NPI source = NPPES	0.3	0.5	0.4	108.64	-27.46	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
Provider IDs Linked to NPPES								
Number of provider IDs linked to NPPES	15,565	20,428	20,870	31.24	2.16	30% (+/-)	No	Yes
% linked via NPI	99.7	99.5	99.6	-0.29	0.15	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	0.2	0.5	0.3	120.12	-31.29	30% (+/-)	Yes	Yes
% linked via Medicare UPIN	0.0	0.0	0.0	21.91	22.35	30% (+/-)	Yes	Yes
% with name prefix	32.1	34.5	35.2	7.59	1.85	30% (+/-)	Yes	Yes
% with first name	95.9	96.5	97.2	0.67	0.68	30% (+/-)	Yes	Yes
% with middle name	77.4	78.0	78.0	0.86	-0.07	30% (+/-)	Yes	Yes
% with last name	95.9	96.5	97.2	0.67	0.68	30% (+/-)	Yes	Yes
% with name suffix	1.7	1.7	1.7	0.93	-1.29	30% (+/-)	Yes	Yes
% male	57.8	57.4	56.6	-0.57	-1.39	30% (+/-)	Yes	Yes
% female	38.1	39.1	40.6	2.56	3.73	30% (+/-)	Yes	Yes
% with credential	91.3	92.1	92.7	0.86	0.70	30% (+/-)	Yes	Yes
% with business name	4.1	3.2	2.6	-22.49	-17.20	30% (+/-)	Yes	Yes
% with address line 1	100.0	99.7	99.8	-0.28	0.11	30% (+/-)	Yes	Yes
% with city	100.0	99.7	99.8	-0.28	0.11	30% (+/-)	Yes	Yes
% with state	100.0	99.7	99.8	-0.28	0.11	30% (+/-)	Yes	Yes
% state = RX state code	90.7	86.1	85.8	-5.12	-0.37	30% (+/-)	Yes	Yes
% with zip code	100.0	99.7	99.8	-0.28	0.11	30% (+/-)	Yes	Yes
% with primary taxonomy	99.4	98.8	99.0	-0.55	0.12	30% (+/-)	Yes	Yes
% with provider entity type = individual	95.9	96.5	97.2	0.67	0.68	30% (+/-)	Yes	Yes
% with provider entity type = organization	4.1	3.2	2.6	-22.49	-17.20	30% (+/-)	Yes	Yes
Provider IDs with or without NPI but linked to state provider file								
Number of provider IDs with or without NPI linked to state provider file	0	0	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 Prescribing Provider Characteristics Validation Table

State: WA

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 ^a	Cross Year 2010-2011 Within Range ^b
Provider IDs with NPPES Primary Taxonomy								
Number of provider IDs with NPPES primary taxonomy	15,483	20,191	20,653	30.41	2.29	30% (+/-)	No	Yes
% individual or group of individuals	95.3	97.6	97.9	2.37	0.35	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	67.4	66.2	66.2	-1.76	-0.02	30% (+/-)	Yes	Yes
% behavioral health and social service providers	0.1	0.1	0.1	91.71	12.43	30% (+/-)	Yes	Yes
% chiropractic providers	0.0	0.0	0.0	Div by 0	-100.00	30% (+/-)	N/A	Yes
% dental providers	5.3	7.2	6.8	36.06	-5.93	30% (+/-)	Yes	Yes
% dietary and nutritional service providers	0.0	0.0	0.0	Div by 0	-30.17	30% (+/-)	N/A	Yes
% emergency medical service providers	0.0	0.0	0.0	15.02	-2.24	30% (+/-)	Yes	Yes
% eye and vision service providers	2.3	2.9	2.7	24.10	-6.78	30% (+/-)	Yes	Yes
% nursing service providers	0.1	0.2	0.2	34.19	17.32	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	1.7	2.1	2.0	24.65	-4.94	30% (+/-)	Yes	Yes
% pharmacy service providers	0.0	0.0	0.0	436.78	-16.20	30% (+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	17.1	17.3	18.3	1.03	5.53	30% (+/-)	Yes	Yes
% podiatric medicine and surgery service providers	1.1	1.1	1.1	-0.05	-3.50	30% (+/-)	Yes	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.1	0.1	168.39	67.59	30% (+/-)	Yes	Yes
% speech, language, and hearing service providers	0.0	0.0	0.0	436.78	-58.10	30% (+/-)	Yes	Yes
% student health care	0.0	0.2	0.3	371.05	54.60	30% (+/-)	Yes	Yes
% 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	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nonindividuals	4.7	2.4	2.1	-48.24	-14.01	30% (+/-)	Yes	Yes
% agencies	0.0	0.0	0.0	2.24	71.09	30% (+/-)	Yes	Yes
% ambulatory health care facilities	3.8	0.2	0.2	-95.29	8.63	30% (+/-)	Yes	Yes
% hospital units	0.0	0.0	0.0	53.37	-51.12	30% (+/-)	Yes	Yes
% hospitals	0.0	0.1	0.2	666.83	23.83	30% (+/-)	Yes	Yes
% laboratories	0.0	0.0	0.0	Div by 0	-2.24	30% (+/-)	N/A	Yes
% managed care organizations	0.9	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nursing and custodial care facilities	0.0	0.0	0.0	Div by 0	-100.00	30% (+/-)	N/A	Yes
% residential treatment facilities	0.0	0.0	0.0	Div by 0	-2.24	30% (+/-)	N/A	Yes
% respite care facility	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% suppliers	0.0	2.1	1.7	31,646.63	-19.48	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
Provider IDs with Entity Type = Individual								
Number of provider IDs with entity type = individual	14,927	19,722	20,286	32.12	2.86	30% (+/-)	No	Yes
% a sole proprietorship	14.3	14.1	14.1	-1.54	0.09	30% (+/-)	Yes	Yes
% not a sole proprietorship	80.0	81.1	81.4	1.34	0.36	30% (+/-)	Yes	Yes
% not answered	5.7	4.8	4.5	-14.96	-6.24	N/A	N/A	N/A
Provider IDs with Entity Type = Organization								
Number of provider IDs with entity type = organization	638	649	549	1.72	-15.41	30% (+/-)	Yes	Yes
% organization is a subpart	0.5	17.7	17.7	3,668.36	-0.29	30% (+/-)	No	Yes
% organization is not a subpart	98.1	73.0	72.5	-25.56	-0.74	30% (+/-)	Yes	Yes
% not answered	1.4	9.2	9.8	555.37	6.39	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 All Provider Characteristics Validation Table

State: WA

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 ^a	Cross Year 2010-2011 Within Range ^b
All Providers								
Number of provider IDs	130,650	114,956	113,772	-12.01	-1.03	30%(+/-)	Yes	Yes
% billing provider on IP claim	0.4	0.2	0.2	-33.25	5.55	N/A	N/A	N/A
% NPI billing provider on IP claim	0.2	0.2	0.2	27.35	6.27	N/A	N/A	N/A
% billing provider on LT claim	0.4	0.2	0.2	-39.20	-3.60	N/A	N/A	N/A
% NPI billing provider on LT claim	0.2	0.2	0.2	14.07	-1.20	N/A	N/A	N/A
% billing provider on OT claim	17.6	8.3	7.8	-52.73	-6.35	N/A	N/A	N/A
% servicing provider on OT claim	48.7	30.6	30.1	-37.27	-1.67	N/A	N/A	N/A
% NPI servicing provider on OT claim	23.2	29.6	30.0	27.54	1.38	N/A	N/A	N/A
% billing provider on RX claim	2.0	1.2	1.2	-41.14	0.01	N/A	N/A	N/A
% prescribing provider on RX claim	35.5	55.9	54.8	57.60	-1.93	N/A	N/A	N/A
% NPI billing provider on RX claim	0.8	1.1	1.1	37.77	2.02	N/A	N/A	N/A
% billing provider	19.0	8.9	8.5	-52.85	-4.68	N/A	N/A	N/A
% NPI billing provider	1.1	1.5	1.6	31.99	2.37	N/A	N/A	N/A
% servicing provider	48.7	30.6	30.1	-37.27	-1.67	N/A	N/A	N/A
% NPI servicing provider	23.2	29.6	30.0	27.54	1.38	N/A	N/A	N/A
% prescribing provider	35.5	55.9	54.8	57.60	-1.93	N/A	N/A	N/A
% provider IDs with NPI	58.1	60.0	61.5	3.28	2.43	30%(+/-)	Yes	Yes
% provider IDs linked to NPPES	57.8	59.7	61.2	3.42	2.46	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	705.1	1,143.2	1,085.5	62.14	-5.05	30%(+/-)	No	Yes
average number of beneficiaries with claims	132.0	156.6	152.9	18.69	-2.35	30%(+/-)	Yes	Yes
Provider IDs with NPI								
Number of provider IDs with NPI	75,927	68,998	69,948	-9.13	1.38	30%(+/-)	Yes	Yes
% NPI source = MSIS	99.9	99.8	99.9	-0.11	0.04	30%(+/-)	Yes	Yes
% NPI source = NPPES	0.1	0.2	0.1	200.60	-26.90	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
Provider IDs Linked to NPPES								
Number of provider IDs linked to NPPES	75,458	68,665	69,629	-9.00	1.40	30%(+/-)	Yes	Yes
% linked via NPI	99.9	99.8	99.9	-0.11	0.04	30%(+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	0.0	0.2	0.1	217.47	-30.78	30%(+/-)	Yes	Yes
% linked via Medicare UPIN	0.0	0.0	0.0	75.83	23.27	30%(+/-)	Yes	Yes
% with name prefix	23.2	29.5	30.8	27.26	4.30	30%(+/-)	Yes	Yes
% with first name	64.6	81.0	83.8	25.50	3.45	30%(+/-)	Yes	Yes
% with middle name	52.4	65.4	67.2	24.78	2.76	30%(+/-)	Yes	Yes
% with last name	64.6	81.0	83.8	25.50	3.45	30%(+/-)	Yes	Yes
% with name suffix	1.2	1.4	1.5	20.16	0.99	30%(+/-)	Yes	Yes
% male	38.9	47.3	47.7	21.66	0.84	30%(+/-)	Yes	Yes
% female	25.7	33.7	36.1	31.31	7.09	30%(+/-)	No	Yes
% with credential	61.2	76.9	79.6	25.64	3.50	30%(+/-)	Yes	Yes
% with business name	35.4	18.7	16.0	-47.27	-14.34	30%(+/-)	No	Yes
% with address line 1	100.0	99.7	99.8	-0.29	0.11	30%(+/-)	Yes	Yes
% with city	100.0	99.7	99.8	-0.29	0.11	30%(+/-)	Yes	Yes
% with state	100.0	99.7	99.8	-0.29	0.11	30%(+/-)	Yes	Yes
% state = claim file state code	86.5	81.9	80.3	-5.33	-1.97	30%(+/-)	Yes	Yes
% with zip code	100.0	99.7	99.8	-0.29	0.11	30%(+/-)	Yes	Yes
% with primary taxonomy	99.1	98.6	98.8	-0.50	0.16	30%(+/-)	Yes	Yes

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 All Provider Characteristics Validation Table

State: WA

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 ^a	Cross Year 2010-2011 Within Range ^b
% with provider entity type = individual	64.6	81.0	83.8	25.50	3.45	30%(+/-)	Yes	Yes
% with provider entity type = organization	35.4	18.7	16.0	-47.27	-14.34	30%(+/-)	No	Yes
Provider IDs with or without NPI but linked to state provider file								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs with NPES Primary Taxonomy								
Number of provider IDs with NPES primary taxonomy	75,105	67,724	68,783	-9.83	1.56	30%(+/-)	Yes	Yes
% individual or group of individuals	81.1	87.8	88.0	8.31	0.20	30%(+/-)	Yes	Yes
% allopathic and osteopathic physicians	52.3	53.6	53.8	2.34	0.49	30%(+/-)	Yes	Yes
% behavioral health and social service providers	0.9	1.4	1.9	59.73	30.60	30%(+/-)	Yes	Yes
% chiropractic providers	0.1	0.2	0.1	109.77	-37.29	30%(+/-)	Yes	Yes
% dental providers	4.7	6.1	5.5	28.04	-9.08	30%(+/-)	Yes	Yes
% dietary and nutritional service providers	0.2	0.4	0.4	73.28	6.73	30%(+/-)	Yes	Yes
% emergency medical service providers	0.1	0.0	0.0	-55.64	-1.54	30%(+/-)	Yes	Yes
% eye and vision service providers	2.7	2.7	2.4	-0.15	-9.32	30%(+/-)	Yes	Yes
% nursing service providers	0.2	0.3	0.3	17.71	9.86	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	2.3	2.3	2.1	0.07	-11.75	30%(+/-)	Yes	Yes
% pharmacy service providers	0.0	0.1	0.1	158.76	-15.61	30%(+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	9.9	12.7	13.4	27.88	5.90	30%(+/-)	Yes	Yes
% podiatric medicine and surgery service providers	0.9	0.9	0.8	-6.11	-8.44	30%(+/-)	Yes	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	4.6	5.6	5.5	20.80	-2.21	30%(+/-)	Yes	Yes
% speech, language, and hearing service providers	1.3	1.4	1.3	11.36	-4.84	30%(+/-)	Yes	Yes
% student health care	0.0	0.2	0.3	697.08	72.95	30%(+/-)	Yes	Yes
% technologists, technicians, and other technical service providers	0.1	0.0	0.0	-18.85	-27.80	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	18.9	12.2	12.0	-35.56	-1.42	30%(+/-)	No	Yes
% agencies	1.2	1.4	1.0	15.44	-22.63	30%(+/-)	Yes	Yes
% ambulatory health care facilities	6.6	2.6	2.3	-60.05	-12.02	30%(+/-)	Yes	Yes
% hospital units	0.2	0.1	0.1	-24.51	-6.40	30%(+/-)	Yes	Yes
% hospitals	2.4	1.6	1.8	-33.68	9.77	30%(+/-)	Yes	Yes
% laboratories	0.5	0.4	0.4	-17.61	6.70	30%(+/-)	Yes	Yes
% managed care organizations	1.7	0.0	0.0	-98.40	-34.36	30%(+/-)	Yes	Yes
% nursing and custodial care facilities	0.8	0.4	0.7	-49.96	71.45	30%(+/-)	Yes	Yes
% residential treatment facilities	0.1	0.1	0.1	54.80	-5.95	30%(+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	Div by 0	-1.54	30%(+/-)	N/A	Yes
% suppliers	5.0	5.0	5.0	-0.38	-0.76	30%(+/-)	Yes	Yes
% transportation services	0.6	0.6	0.6	-7.85	8.97	30%(+/-)	Yes	Yes
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs with Entity Type = Individual								
Number of provider IDs with entity type = individual	48,719	55,639	58,364	14.20	4.90	30%(+/-)	Yes	Yes
% a sole proprietorship	15.7	14.6	14.5	-7.07	-0.07	30%(+/-)	Yes	Yes
% not a sole proprietorship	78.2	80.4	80.7	2.85	0.42	30%(+/-)	Yes	Yes
% not answered	6.2	5.0	4.7	-18.24	-6.54	N/A	N/A	N/A
Provider IDs with Entity Type = Organization								
Number of provider IDs with entity type = organization	26,739	12,829	11,143	-52.02	-13.14	30%(+/-)	No	Yes
% organization is a subpart	12.6	13.4	13.9	6.29	4.19	30%(+/-)	Yes	Yes
% organization is not a subpart	74.5	69.9	71.2	-6.19	1.87	30%(+/-)	Yes	Yes
% not answered	12.9	16.7	14.9	29.59	-11.17	N/A	N/A	N/A

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

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