

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

**State-Specific Validation Tables,
2010**

Virginia

May 31, 2013

Deo Bencio
Mei-ling Mason



MATHEMATICA
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

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

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

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

- Number of IP Claims for Provider
- Number of Beneficiaries with IP Claims for Provider
- Number of LT Claims for Provider
- Number of Beneficiaries with LT Claims for Provider
- Number of OT Claims for Provider
- Number of Beneficiaries with OT Claims for Provider
- Number of RX Claims for provider
- Number of Beneficiaries with RX Claims for Provider.

2009-2010 MAX IP Billing Provider Characteristics Validation Table

State: VA

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
IP Providers					
Number of provider IDs	1,291	1,347	4.34	30% (+/-)	Yes
% billing provider on IP claim	100.0	100.0	0.00	N/A	N/A
% NPI billing provider on IP claim	100.0	100.0	0.00	N/A	N/A
% also a provider on LT claim	21.5	20.1	-6.57	N/A	N/A
% also a provider on OT claim	68.8	64.7	-5.89	N/A	N/A
% also a provider on RX claim	11.7	10.1	-13.67	N/A	N/A
% provider IDs with NPI	100.0	100.0	0.00	30% (+/-)	Yes
% provider IDs linked to NPPES	99.5	99.7	0.17	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of IP claims	403.1	398.2	-1.22	30% (+/-)	Yes
average number of beneficiaries with IP claims	184.9	178.7	-3.35	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	1,291	1,347	4.34	30% (+/-)	Yes
% NPI source = MSIS	100.0	100.0	0.00	30% (+/-)	Yes
% NPI source = NPPES	0.0	0.0	Div by 0	30% (+/-)	N/A
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	1,285	1,343	4.51	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.1	0.1	-5.13	30% (+/-)	Yes
% with first name	0.1	0.1	-5.13	30% (+/-)	Yes
% with middle name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with last name	0.1	0.1	-5.13	30% (+/-)	Yes
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.0	0.0	Div by 0	30% (+/-)	N/A
% female	0.1	0.1	-5.13	30% (+/-)	Yes
% with credential	0.1	0.1	-5.13	30% (+/-)	Yes
% with business name	99.9	99.8	-0.15	30% (+/-)	Yes
% with address line 1	100.0	99.9	-0.15	30% (+/-)	Yes
% with city	100.0	99.9	-0.15	30% (+/-)	Yes
% with state	100.0	99.9	-0.15	30% (+/-)	Yes
% state = IP state code	53.7	51.3	-4.46	30% (+/-)	Yes
% with zip code	100.0	99.9	-0.15	30% (+/-)	Yes
% with primary taxonomy	99.3	98.6	-0.72	30% (+/-)	Yes
% with provider entity type = individual	0.1	0.1	-5.13	30% (+/-)	Yes
% with provider entity type = organization	99.9	99.8	-0.15	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	1,282	1,324	3.28	30% (+/-)	Yes
% individual or group of individuals	4.7	2.2	-53.21	30% (+/-)	Yes
% allopathic and osteopathic physicians	2.3	0.6	-73.30	30% (+/-)	Yes
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A

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

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

2009-2010 MAX IP Billing Provider Characteristics Validation Table

State: VA

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.1	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.1	0.0	-100.00	30% (+/-)	Yes
% other service providers	0.6	0.2	-75.80	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.2	0.2	-3.21	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	1.2	0.9	-22.56	30% (+/-)	Yes
% speech, language, and hearing service providers	0.2	0.3	29.06	30% (+/-)	Yes
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.2	0.0	-100.00	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	95.3	97.8	2.61	30% (+/-)	Yes
% agencies	0.4	0.5	16.15	30% (+/-)	Yes
% ambulatory health care facilities	22.9	23.5	2.42	30% (+/-)	Yes
% hospital units	0.9	1.3	37.18	30% (+/-)	Yes
% hospitals	51.3	53.6	4.33	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	19.4	18.6	-4.34	30% (+/-)	Yes
% residential treatment facilities	0.1	0.0	-100.00	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.2	0.1	-51.28	30% (+/-)	Yes
% transportation services	0.1	0.4	384.62	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	1	1	0.00	30% (+/-)	Yes
% a sole proprietorship	0.0	100.0	Div by 0	30% (+/-)	N/A
% not a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not answered	100.0	0.0	-100.00	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	1,284	1,340	4.36	30% (+/-)	Yes
% organization is a subpart	9.0	9.3	2.44	30% (+/-)	Yes
% organization is not a subpart	71.9	77.2	7.45	30% (+/-)	Yes
% not answered	19.1	13.5	-29.21	N/A	N/A

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

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

2009-2010 MAX LT Billing Provider Characteristics Validation Table

State: VA

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
LT Providers					
Number of provider IDs	374	378	1.07	30% (+/-)	Yes
% billing provider on LT claim	100.0	100.0	0.00	N/A	N/A
% NPI billing provider on LT claim	100.0	100.0	0.00	N/A	N/A
% also a provider on IP claim	74.3	71.7	-3.55	N/A	N/A
% also a provider on OT claim	27.0	14.3	-47.10	N/A	N/A
% also a provider on RX claim	4.0	4.2	5.53	N/A	N/A
% provider IDs with NPI	100.0	100.0	0.00	30% (+/-)	Yes
% provider IDs linked to NPPES	100.0	100.0	0.00	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of LT claims	1,166.4	1,144.3	-1.90	30% (+/-)	Yes
average number of beneficiaries with LT claims	87.6	84.6	-3.33	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	374	378	1.07	30% (+/-)	Yes
% NPI source = MSIS	100.0	100.0	0.00	30% (+/-)	Yes
% NPI source = NPPES	0.0	0.0	Div by 0	30% (+/-)	N/A
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	374	378	1.07	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.0	0.0	Div by 0	30% (+/-)	N/A
% with first name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with middle name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with last name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.0	0.0	Div by 0	30% (+/-)	N/A
% female	0.0	0.0	Div by 0	30% (+/-)	N/A
% with credential	0.0	0.0	Div by 0	30% (+/-)	N/A
% with business name	100.0	99.7	-0.27	30% (+/-)	Yes
% with address line 1	100.0	99.7	-0.27	30% (+/-)	Yes
% with city	100.0	99.7	-0.27	30% (+/-)	Yes
% with state	100.0	99.7	-0.27	30% (+/-)	Yes
% state = LT state code	96.8	95.8	-1.06	30% (+/-)	Yes
% with zip code	100.0	99.7	-0.27	30% (+/-)	Yes
% with primary taxonomy	98.7	96.6	-2.13	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	99.7	-0.27	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	369	365	-1.08	30% (+/-)	Yes
% individual or group of individuals	0.5	0.0	-100.00	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.0	0.0	Div by 0	30% (+/-)	N/A
% behavioral health and social service providers	0.3	0.0	-100.00	30% (+/-)	Yes

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

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

2009-2010 MAX LT Billing Provider Characteristics Validation Table

State: VA

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.3	0.0	-100.00	30% (+/-)	Yes
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	99.5	100.0	0.54	30% (+/-)	Yes
% agencies	0.8	0.8	1.11	30% (+/-)	Yes
% ambulatory health care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospital units	3.5	6.3	78.85	30% (+/-)	Yes
% hospitals	10.6	9.6	-9.27	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	82.7	80.5	-2.55	30% (+/-)	Yes
% residential treatment facilities	1.4	2.7	102.21	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.5	0.0	-100.00	30% (+/-)	Yes
% transportation services	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	0	0	Div by 0	30% (+/-)	N/A
% a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not answered	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	374	377	0.80	30% (+/-)	Yes
% organization is a subpart	12.3	14.1	14.30	30% (+/-)	Yes
% organization is not a subpart	55.1	59.9	8.84	30% (+/-)	Yes
% not answered	32.6	26.0	-20.31	N/A	N/A

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

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

2009-2010 MAX OT Servicing Provider Characteristics Validation Table

State: VA

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
OT Providers					
Number of provider IDs	74,427	78,368	5.30	30% (+/-)	Yes
% billing provider on OT claim	40.1	39.7	-1.01	N/A	N/A
% servicing provider on OT claim	50.0	50.0	0.00	N/A	N/A
% NPI servicing provider on OT claim	50.0	50.0	0.00	N/A	N/A
% also a provider on IP claim	1.2	1.1	-6.94	N/A	N/A
% also a provider on LT claim	0.1	0.1	-51.52	N/A	N/A
% also a provider on RX claim	26.3	26.0	-1.30	N/A	N/A
% provider IDs with NPI	100.0	100.0	0.00	30% (+/-)	Yes
% provider IDs linked to NPPES	95.5	95.7	0.20	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of OT claims	692.4	720.4	4.05	30% (+/-)	Yes
average number of beneficiaries with OT claims	151.6	152.9	0.88	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	74,426	78,368	5.30	30% (+/-)	Yes
% NPI source = MSIS	100.0	100.0	0.00	30% (+/-)	Yes
% NPI source = NPPES	0.0	0.0	Div by 0	30% (+/-)	N/A
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	71,074	74,984	5.50	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	36.3	36.6	0.71	30% (+/-)	Yes
% with first name	80.3	80.3	-0.02	30% (+/-)	Yes
% with middle name	62.4	62.5	0.14	30% (+/-)	Yes
% with last name	80.3	80.3	-0.02	30% (+/-)	Yes
% with name suffix	3.7	3.6	-2.89	30% (+/-)	Yes
% male	50.1	49.3	-1.59	30% (+/-)	Yes
% female	30.1	30.9	2.59	30% (+/-)	Yes
% with credential	77.3	77.5	0.25	30% (+/-)	Yes
% with business name	19.7	19.3	-1.91	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.39	30% (+/-)	Yes
% with city	100.0	99.6	-0.39	30% (+/-)	Yes
% with state	100.0	99.6	-0.39	30% (+/-)	Yes
% state = OT state code	70.7	69.3	-1.96	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.39	30% (+/-)	Yes
% with primary taxonomy	98.8	97.7	-1.05	30% (+/-)	Yes
% with provider entity type = individual	80.3	80.3	-0.02	30% (+/-)	Yes
% with provider entity type = organization	19.7	19.3	-1.91	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	71,495	73,292	2.51	30% (+/-)	Yes
% individual or group of individuals	84.2	84.1	-0.08	30% (+/-)	Yes
% allopathic and osteopathic physicians	57.8	57.6	-0.27	30% (+/-)	Yes

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

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

2009-2010 MAX OT Servicing Provider Characteristics Validation Table

State: VA

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	6.9	7.0	1.34	30% (+/-)	Yes
% chiropractic providers	0.1	0.1	19.39	30% (+/-)	Yes
% dental providers	3.2	3.4	7.34	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	0.00	30% (+/-)	Yes
% emergency medical service providers	0.0	0.0	145.00	30% (+/-)	Yes
% eye and vision service providers	2.1	2.1	-0.87	30% (+/-)	Yes
% nursing service providers	0.1	0.2	84.26	30% (+/-)	Yes
% nursing service-related providers	0.1	0.0	-73.17	30% (+/-)	Yes
% other service providers	5.4	2.8	-47.81	30% (+/-)	Yes
% pharmacy service providers	0.1	0.1	53.95	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	5.7	8.0	40.14	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.9	0.9	-2.45	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.8	0.9	7.63	30% (+/-)	Yes
% speech, language, and hearing service providers	0.4	0.5	9.88	30% (+/-)	Yes
% student health care	0.2	0.3	75.26	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.1	0.1	-60.71	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.1	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	15.8	15.9	0.41	30% (+/-)	Yes
% agencies	2.7	3.2	16.80	30% (+/-)	Yes
% ambulatory health care facilities	1.7	1.6	-9.77	30% (+/-)	Yes
% hospital units	0.0	0.0	29.63	30% (+/-)	Yes
% hospitals	2.4	2.5	2.42	30% (+/-)	Yes
% laboratories	0.5	0.6	17.76	30% (+/-)	Yes
% managed care organizations	0.0	0.0	84.00	30% (+/-)	Yes
% nursing and custodial care facilities	0.2	0.1	-42.29	30% (+/-)	Yes
% residential treatment facilities	0.4	0.6	39.51	30% (+/-)	Yes
% respite care facility	0.1	0.0	-56.79	30% (+/-)	Yes
% suppliers	6.5	6.3	-2.29	30% (+/-)	Yes
% transportation services	1.2	0.9	-24.72	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	57,060	60,188	5.48	30% (+/-)	Yes
% a sole proprietorship	14.3	14.9	4.22	30% (+/-)	Yes
% not a sole proprietorship	75.8	78.5	3.54	30% (+/-)	Yes
% not answered	9.9	6.6	-33.13	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	14,014	14,502	3.48	30% (+/-)	Yes
% organization is a subpart	9.3	10.0	6.85	30% (+/-)	Yes
% organization is not a subpart	69.3	73.4	5.91	30% (+/-)	Yes
% not answered	21.4	16.6	-22.14	N/A	N/A

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

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

2009-2010 MAX OT Billing Provider Characteristics Validation Table

State: VA

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
OT Providers					
Number of provider IDs	32,348	33,877	4.73	30% (+/-)	Yes
% billing provider on OT claim	100.0	100.0	0.00	N/A	N/A
% servicing provider on OT claim	0.0	0.0	Div by 0	N/A	N/A
% NPI servicing provider on OT claim	92.2	91.7	-0.47	N/A	N/A
% also a provider on IP claim	2.7	2.6	-6.23	N/A	N/A
% also a provider on LT claim	0.3	0.2	-49.04	N/A	N/A
% also a provider on RX claim	50.8	50.1	-1.48	N/A	N/A
% provider IDs with NPI	92.5	92.1	-0.43	30% (+/-)	Yes
% provider IDs linked to NPPES	87.4	87.1	-0.29	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of OT claims	1,055.0	1,081.3	2.49	30% (+/-)	Yes
average number of beneficiaries with OT claims	207.1	210.4	1.62	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	29,925	31,204	4.27	30% (+/-)	Yes
% NPI source = MSIS	99.7	99.6	-0.04	30% (+/-)	Yes
% NPI source = NPPES	0.3	0.4	13.38	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	28,263	29,512	4.42	30% (+/-)	Yes
% linked via NPI	99.7	99.6	-0.04	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.3	0.4	12.16	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	75.00	30% (+/-)	Yes
% with name prefix	35.7	36.0	0.69	30% (+/-)	Yes
% with first name	74.9	74.7	-0.26	30% (+/-)	Yes
% with middle name	59.0	58.7	-0.59	30% (+/-)	Yes
% with last name	74.9	74.7	-0.26	30% (+/-)	Yes
% with name suffix	3.8	3.7	-2.97	30% (+/-)	Yes
% male	48.6	47.7	-1.89	30% (+/-)	Yes
% female	26.3	27.0	2.75	30% (+/-)	Yes
% with credential	72.2	72.3	0.03	30% (+/-)	Yes
% with business name	25.1	24.9	-0.76	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.39	30% (+/-)	Yes
% with city	100.0	99.6	-0.39	30% (+/-)	Yes
% with state	100.0	99.6	-0.39	30% (+/-)	Yes
% state = OT state code	76.9	75.9	-1.32	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.39	30% (+/-)	Yes
% with primary taxonomy	98.7	97.6	-1.11	30% (+/-)	Yes
% with provider entity type = individual	74.9	74.7	-0.26	30% (+/-)	Yes
% with provider entity type = organization	25.1	24.9	-0.76	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	28,526	28,800	0.96	30% (+/-)	Yes
% individual or group of individuals	80.5	79.8	-0.81	30% (+/-)	Yes
% allopathic and osteopathic physicians	56.1	57.5	2.39	30% (+/-)	Yes

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

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

2009-2010 MAX OT Billing Provider Characteristics Validation Table

State: VA

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	7.4	7.5	1.44	30% (+/-)	Yes
% chiropractic providers	0.1	0.1	41.98	30% (+/-)	Yes
% dental providers	4.0	4.4	8.85	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	21.43	30% (+/-)	Yes
% emergency medical service providers	0.0	0.1	152.00	30% (+/-)	Yes
% eye and vision service providers	2.1	2.1	-0.09	30% (+/-)	Yes
% nursing service providers	0.1	0.1	60.71	30% (+/-)	Yes
% nursing service-related providers	0.2	0.0	-72.73	30% (+/-)	Yes
% other service providers	6.5	3.1	-52.79	30% (+/-)	Yes
% pharmacy service providers	0.1	0.2	50.00	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	1.4	2.5	72.52	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.1	1.1	-0.63	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.4	0.4	-6.89	30% (+/-)	Yes
% speech, language, and hearing service providers	0.4	0.4	9.95	30% (+/-)	Yes
% student health care	0.2	0.3	41.12	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.2	0.1	-60.57	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.1	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	19.5	20.2	3.32	30% (+/-)	Yes
% agencies	3.4	4.1	19.15	30% (+/-)	Yes
% ambulatory health care facilities	1.9	2.0	4.53	30% (+/-)	Yes
% hospital units	0.0	0.0	28.57	30% (+/-)	Yes
% hospitals	3.0	3.2	3.97	30% (+/-)	Yes
% laboratories	0.6	0.7	21.03	30% (+/-)	Yes
% managed care organizations	0.0	0.1	62.50	30% (+/-)	Yes
% nursing and custodial care facilities	0.3	0.2	-38.26	30% (+/-)	Yes
% residential treatment facilities	0.6	0.8	42.24	30% (+/-)	Yes
% respite care facility	0.1	0.0	-55.88	30% (+/-)	Yes
% suppliers	8.1	8.0	-1.07	30% (+/-)	Yes
% transportation services	1.4	1.1	-23.55	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	21,163	22,040	4.14	30% (+/-)	Yes
% a sole proprietorship	16.4	16.9	2.95	30% (+/-)	Yes
% not a sole proprietorship	73.1	76.2	4.13	30% (+/-)	Yes
% not answered	10.5	7.0	-33.40	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	7,100	7,357	3.62	30% (+/-)	Yes
% organization is a subpart	9.3	9.9	6.47	30% (+/-)	Yes
% organization is not a subpart	69.5	73.7	5.95	30% (+/-)	Yes
% not answered	21.2	16.4	-22.36	N/A	N/A

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

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

2009-2010 MAX RX Billing Provider Characteristics Validation Table

State: VA

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
RX Providers					
Number of provider IDs	1,751	1,768	0.97	30% (+/-)	Yes
% billing provider on RX claim	100.0	100.0	0.00	N/A	N/A
% prescribing provider on RX claim	10.4	3.1	-70.62	N/A	N/A
% NPI billing provider on RX claim	100.0	100.0	0.00	N/A	N/A
% also a provider on IP claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on LT claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on OT claim	90.1	90.1	-0.02	N/A	N/A
% provider IDs with NPI	100.0	100.0	0.00	30% (+/-)	Yes
% provider IDs linked to NPPES	99.4	100.0	0.57	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of RX claims	5,285.0	5,358.7	1.39	30% (+/-)	Yes
average number of beneficiaries with RX claims	541.7	542.5	0.15	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	1,751	1,768	0.97	30% (+/-)	Yes
% NPI source = MSIS	100.0	100.0	0.00	30% (+/-)	Yes
% NPI source = NPPES	0.0	0.0	Div by 0	30% (+/-)	N/A
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	1,741	1,768	1.55	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.1	0.1	-1.74	30% (+/-)	Yes
% with first name	0.2	0.2	-1.74	30% (+/-)	Yes
% with middle name	0.2	0.2	-1.16	30% (+/-)	Yes
% with last name	0.2	0.2	-1.74	30% (+/-)	Yes
% with name suffix	0.1	0.1	-1.74	30% (+/-)	Yes
% male	0.2	0.2	-1.16	30% (+/-)	Yes
% female	0.1	0.1	0.00	30% (+/-)	Yes
% with credential	0.1	0.1	-1.74	30% (+/-)	Yes
% with business name	99.8	99.0	-0.73	30% (+/-)	Yes
% with address line 1	100.0	99.3	-0.73	30% (+/-)	Yes
% with city	100.0	99.3	-0.73	30% (+/-)	Yes
% with state	100.0	99.3	-0.73	30% (+/-)	Yes
% state = RX state code	86.6	86.4	-0.29	30% (+/-)	Yes
% with zip code	100.0	99.3	-0.73	30% (+/-)	Yes
% with primary taxonomy	97.4	96.1	-1.35	30% (+/-)	Yes
% with provider entity type = individual	0.2	0.2	-1.74	30% (+/-)	Yes
% with provider entity type = organization	99.8	99.0	-0.73	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	1,699	1,699	0.00	30% (+/-)	Yes
% individual or group of individuals	2.4	3.1	29.26	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.0	0.0	Div by 0	30% (+/-)	N/A

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

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

2009-2010 MAX RX Billing Provider Characteristics Validation Table

State: VA

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.1	0.0	-100.00	30% (+/-)	Yes
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.1	0.0	-100.00	30% (+/-)	Yes
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	2.2	3.1	39.43	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	97.6	96.9	-0.72	30% (+/-)	Yes
% agencies	0.6	0.3	-50.08	30% (+/-)	Yes
% ambulatory health care facilities	0.1	0.1	0.00	30% (+/-)	Yes
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	0.2	0.4	50.21	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.2	0.1	-33.33	30% (+/-)	Yes
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	96.5	96.0	-0.49	30% (+/-)	Yes
% transportation services	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	4	4	0.00	30% (+/-)	Yes
% a sole proprietorship	100.0	100.0	0.00	30% (+/-)	Yes
% not a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not answered	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	1,737	1,751	0.81	30% (+/-)	Yes
% organization is a subpart	19.5	20.3	4.18	30% (+/-)	Yes
% organization is not a subpart	69.7	71.4	2.56	30% (+/-)	Yes
% not answered	10.8	8.2	-24.01	N/A	N/A

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

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

2009-2010 MAX RX Prescribing Provider Characteristics Validation Table

State: VA

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
RX Providers					
Number of provider IDs	38,379	39,801	3.71	30% (+/-)	Yes
% billing provider on RX claim	0.5	0.1	-71.31	N/A	N/A
% prescribing provider on RX claim	100.0	100.0	0.00	N/A	N/A
% NPI billing provider on RX claim	0.5	0.1	-71.31	N/A	N/A
% also a provider on IP claim	0.4	0.3	-12.98	N/A	N/A
% also a provider on LT claim	0.0	0.0	2.56	N/A	N/A
% also a provider on OT claim	48.1	47.9	-0.45	N/A	N/A
% provider IDs with NPI	47.9	48.0	0.08	30% (+/-)	Yes
% provider IDs linked to NPPES	47.8	48.0	0.41	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of RX claims	265.2	242.2	-8.68	30% (+/-)	Yes
average number of beneficiaries with RX claims	44.5	41.1	-7.66	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	18,389	19,085	3.78	30% (+/-)	Yes
% NPI source = MSIS	99.1	98.7	-0.38	30% (+/-)	Yes
% NPI source = NPPES	0.9	1.3	42.15	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	18,328	19,085	4.13	30% (+/-)	Yes
% linked via NPI	99.1	98.7	-0.38	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.8	1.2	48.18	30% (+/-)	Yes
% linked via Medicare UPIN	0.1	0.0	-33.80	30% (+/-)	Yes
% with name prefix	44.6	45.1	1.18	30% (+/-)	Yes
% with first name	96.7	97.4	0.73	30% (+/-)	Yes
% with middle name	76.9	77.4	0.61	30% (+/-)	Yes
% with last name	96.7	97.4	0.73	30% (+/-)	Yes
% with name suffix	5.0	4.9	-2.09	30% (+/-)	Yes
% male	64.0	62.9	-1.67	30% (+/-)	Yes
% female	32.7	34.5	5.43	30% (+/-)	Yes
% with credential	93.8	94.8	1.02	30% (+/-)	Yes
% with business name	3.3	2.2	-33.42	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.40	30% (+/-)	Yes
% with city	100.0	99.6	-0.40	30% (+/-)	Yes
% with state	100.0	99.6	-0.40	30% (+/-)	Yes
% state = RX state code	80.7	79.2	-1.86	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.40	30% (+/-)	Yes
% with primary taxonomy	99.1	98.6	-0.43	30% (+/-)	Yes
% with provider entity type = individual	96.7	97.4	0.73	30% (+/-)	Yes
% with provider entity type = organization	3.3	2.2	-33.42	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	18,193	18,826	3.48	30% (+/-)	Yes
% individual or group of individuals	97.6	98.5	0.98	30% (+/-)	Yes
% allopathic and osteopathic physicians	77.8	74.6	-4.06	30% (+/-)	Yes

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

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

2009-2010 MAX RX Prescribing Provider Characteristics Validation Table

State: VA

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	0.3	0.2	-36.04	30% (+/-)	Yes
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	5.3	5.7	7.88	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	31.25	30% (+/-)	Yes
% eye and vision service providers	2.3	2.3	0.40	30% (+/-)	Yes
% nursing service providers	0.1	0.1	51.95	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	3.4	3.9	16.47	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	0.00	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	6.5	9.8	49.75	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.4	1.3	-2.21	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	-2.04	30% (+/-)	Yes
% speech, language, and hearing service providers	0.0	0.0	0.00	30% (+/-)	Yes
% student health care	0.3	0.4	48.48	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.2	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	2.4	1.5	-39.45	30% (+/-)	Yes
% agencies	0.2	0.2	-17.19	30% (+/-)	Yes
% ambulatory health care facilities	0.5	0.4	-23.84	30% (+/-)	Yes
% hospital units	0.0	0.0	22.73	30% (+/-)	Yes
% hospitals	0.7	0.6	-9.02	30% (+/-)	Yes
% laboratories	0.0	0.0	-100.00	30% (+/-)	Yes
% managed care organizations	0.0	0.0	320.00	30% (+/-)	Yes
% nursing and custodial care facilities	0.0	0.0	0.00	30% (+/-)	Yes
% residential treatment facilities	0.0	0.0	-100.00	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	1.0	0.3	-72.97	30% (+/-)	Yes
% transportation services	0.0	0.0	-100.00	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	17,722	18,589	4.89	30% (+/-)	Yes
% a sole proprietorship	13.3	13.7	2.39	30% (+/-)	Yes
% not a sole proprietorship	77.0	80.5	4.56	30% (+/-)	Yes
% not answered	9.6	5.8	-39.67	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	606	420	-30.69	30% (+/-)	No
% organization is a subpart	13.4	7.9	-41.22	30% (+/-)	No
% organization is not a subpart	70.8	78.1	10.32	30% (+/-)	Yes
% not answered	15.8	14.0	-11.32	N/A	N/A

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

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2009-2010 MAX All Provider Characteristics Validation Table

State: VA

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
All Providers					
Number of provider IDs	97,526	102,658	5.26	30%(+/-)	Yes
% billing provider on IP claim	1.3	1.3	-0.91	N/A	N/A
% NPI billing provider on IP claim	1.3	1.3	-0.91	N/A	N/A
% billing provider on LT claim	0.4	0.4	-3.92	N/A	N/A
% NPI billing provider on LT claim	0.4	0.4	-3.92	N/A	N/A
% billing provider on OT claim	33.2	33.0	-0.51	N/A	N/A
% servicing provider on OT claim	38.2	38.2	0.03	N/A	N/A
% NPI servicing provider on OT claim	38.2	38.2	0.03	N/A	N/A
% billing provider on RX claim	1.8	1.7	-4.07	N/A	N/A
% prescribing provider on RX claim	39.4	38.8	-1.48	N/A	N/A
% NPI billing provider on RX claim	1.8	1.7	-4.07	N/A	N/A
% billing provider	33.8	33.7	-0.34	N/A	N/A
% NPI billing provider	3.2	3.1	-2.45	N/A	N/A
% servicing provider	38.2	38.2	0.03	N/A	N/A
% NPI servicing provider	38.2	38.2	0.03	N/A	N/A
% prescribing provider	39.4	38.8	-1.48	N/A	N/A
% provider IDs with NPI	77.3	77.4	0.20	30%(+/-)	Yes
% provider IDs linked to NPPES	73.8	74.1	0.41	30%(+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of claims	804.1	817.3	1.65	30%(+/-)	Yes
average number of beneficiaries with claims	145.0	145.6	0.42	30%(+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	75,355	79,481	5.48	30%(+/-)	Yes
% NPI source = MSIS	99.7	99.6	-0.10	30%(+/-)	Yes
% NPI source = NPPES	0.3	0.4	30.65	30%(+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	71,997	76,094	5.69	30%(+/-)	Yes
% linked via NPI	99.6	99.5	-0.11	30%(+/-)	Yes
% linked via Medicaid legacy provider ID	0.3	0.4	33.73	30%(+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	-26.32	30%(+/-)	Yes
% with name prefix	36.0	36.2	0.61	30%(+/-)	Yes
% with first name	79.5	79.4	-0.07	30%(+/-)	Yes
% with middle name	61.8	61.8	0.09	30%(+/-)	Yes
% with last name	79.5	79.4	-0.07	30%(+/-)	Yes
% with name suffix	3.7	3.6	-2.84	30%(+/-)	Yes
% male	49.6	48.7	-1.71	30%(+/-)	Yes
% female	29.9	30.7	2.65	30%(+/-)	Yes
% with credential	76.5	76.7	0.20	30%(+/-)	Yes
% with business name	20.5	20.2	-1.63	30%(+/-)	Yes
% with address line 1	100.0	99.6	-0.39	30%(+/-)	Yes
% with city	100.0	99.6	-0.39	30%(+/-)	Yes
% with state	100.0	99.6	-0.39	30%(+/-)	Yes
% state = claim file state code	70.6	69.2	-1.96	30%(+/-)	Yes
% with zip code	100.0	99.6	-0.39	30%(+/-)	Yes

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

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2009-2010 MAX All Provider Characteristics Validation Table

State: VA

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% with primary taxonomy	98.8	97.7	-1.04	30%(+/-)	Yes
% with provider entity type = individual	79.5	79.4	-0.07	30%(+/-)	Yes
% with provider entity type = organization	20.5	20.2	-1.63	30%(+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	72,407	74,380	2.72	30%(+/-)	Yes
% individual or group of individuals	83.5	83.4	-0.16	30%(+/-)	Yes
% allopathic and osteopathic physicians	57.3	57.1	-0.34	30%(+/-)	Yes
% behavioral health and social service providers	6.8	6.9	1.17	30%(+/-)	Yes
% chiropractic providers	0.1	0.1	19.59	30%(+/-)	Yes
% dental providers	3.2	3.4	7.10	30%(+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	0.00	30%(+/-)	Yes
% emergency medical service providers	0.0	0.0	152.63	30%(+/-)	Yes
% eye and vision service providers	2.1	2.0	-1.07	30%(+/-)	Yes
% nursing service providers	0.1	0.2	81.48	30%(+/-)	Yes
% nursing service-related providers	0.1	0.0	-73.98	30%(+/-)	Yes
% other service providers	5.4	2.8	-48.03	30%(+/-)	Yes
% pharmacy service providers	0.1	0.1	43.33	30%(+/-)	Yes
% physician assistants and advanced practice nursing providers	5.7	8.0	39.98	30%(+/-)	Yes
% podiatric medicine and surgery service providers	0.9	0.9	-2.69	30%(+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.8	0.8	6.94	30%(+/-)	Yes
% speech, language, and hearing service providers	0.4	0.5	9.50	30%(+/-)	Yes
% student health care	0.2	0.3	70.83	30%(+/-)	Yes
% technologists, technicians, and other technical service providers	0.1	0.1	-60.87	30%(+/-)	Yes
% group of individuals with multi- or single specialty	0.1	0.0	-100.00	30%(+/-)	Yes
% nonindividuals	16.5	16.6	0.79	30%(+/-)	Yes
% agencies	2.7	3.1	16.45	30%(+/-)	Yes
% ambulatory health care facilities	1.8	1.6	-10.12	30%(+/-)	Yes
% hospital units	0.0	0.1	69.23	30%(+/-)	Yes
% hospitals	2.7	2.8	3.79	30%(+/-)	Yes
% laboratories	0.5	0.5	17.56	30%(+/-)	Yes
% managed care organizations	0.0	0.0	84.00	30%(+/-)	Yes
% nursing and custodial care facilities	0.6	0.5	-11.05	30%(+/-)	Yes
% residential treatment facilities	0.4	0.6	40.81	30%(+/-)	Yes
% respite care facility	0.1	0.0	-56.25	30%(+/-)	Yes
% suppliers	6.6	6.4	-2.42	30%(+/-)	Yes
% transportation services	1.1	0.9	-24.78	30%(+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	57,216	60,428	5.61	30%(+/-)	Yes
% a sole proprietorship	14.3	14.9	4.09	30%(+/-)	Yes
% not a sole proprietorship	75.8	78.5	3.56	30%(+/-)	Yes
% not answered	9.9	6.6	-33.22	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	14,781	15,367	3.96	30%(+/-)	Yes
% organization is a subpart	9.5	10.1	6.93	30%(+/-)	Yes
% organization is not a subpart	69.0	73.2	6.10	30%(+/-)	Yes
% not answered	21.5	16.7	-22.58	N/A	N/A

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

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