

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

**State-Specific Validation Tables,
2010**

Pennsylvania

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: PA

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	858	832	-3.03	30% (+/-)	Yes
% billing provider on IP claim	51.4	51.1	-0.62	N/A	N/A
% NPI billing provider on IP claim	48.6	48.9	0.65	N/A	N/A
% also a provider on LT claim	0.1	0.2	105.13	N/A	N/A
% also a provider on OT claim	80.1	80.4	0.42	N/A	N/A
% also a provider on RX claim	4.5	4.3	-4.80	N/A	N/A
% provider IDs with NPI	99.0	99.3	0.33	30% (+/-)	Yes
% provider IDs linked to NPPES	98.7	99.3	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 IP claims	286.0	424.2	48.32	30% (+/-)	No
average number of beneficiaries with IP claims	240.9	259.8	7.84	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	849	826	-2.71	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	847	826	-2.48	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	99.6	-0.36	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.36	30% (+/-)	Yes
% with city	100.0	99.6	-0.36	30% (+/-)	Yes
% with state	100.0	99.6	-0.36	30% (+/-)	Yes
% state = IP state code	60.8	60.8	-0.05	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.36	30% (+/-)	Yes
% with primary taxonomy	100.0	98.9	-1.09	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	99.6	-0.36	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	849	817	-3.77	30% (+/-)	Yes
% individual or group of individuals	0.2	1.1	366.95	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.0	0.9	Div by 0	30% (+/-)	N/A
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A

Source: Medicaid Analytic 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: PA

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	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.2	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	0.1	0.0	-100.00	30% (+/-)	Yes
% 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	0.1	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	99.8	98.9	-0.87	30% (+/-)	Yes
% agencies	0.1	0.0	-100.00	30% (+/-)	Yes
% ambulatory health care facilities	5.1	0.0	-100.00	30% (+/-)	Yes
% hospital units	11.3	10.8	-4.74	30% (+/-)	Yes
% hospitals	83.0	88.1	6.13	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	0.0	0.0	Div by 0	30% (+/-)	N/A
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.0	0.0	Div by 0	30% (+/-)	N/A
% transportation services	0.2	0.0	-100.00	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	0	0	Div by 0	30% (+/-)	N/A
% a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not answered	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	847	823	-2.83	30% (+/-)	Yes
% organization is a subpart	8.6	10.2	18.42	30% (+/-)	Yes
% organization is not a subpart	75.8	75.6	-0.29	30% (+/-)	Yes
% not answered	15.6	14.2	-8.78	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: PA

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	1,879	1,843	-1.92	30% (+/-)	Yes
% billing provider on LT claim	53.5	53.5	-0.07	N/A	N/A
% NPI billing provider on LT claim	46.5	46.5	0.08	N/A	N/A
% also a provider on IP claim	0.1	0.1	105.66	N/A	N/A
% also a provider on OT claim	29.9	30.8	3.23	N/A	N/A
% also a provider on RX claim	0.0	0.1	Div by 0	N/A	N/A
% provider IDs with NPI	99.9	99.9	0.05	30% (+/-)	Yes
% provider IDs linked to NPPES	99.9	99.9	0.05	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of LT claims	1,073.1	1,678.1	56.38	30% (+/-)	No
average number of beneficiaries with LT claims	96.7	98.9	2.34	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	1,877	1,842	-1.86	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	1,877	1,842	-1.86	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.0	0.0	Div by 0	30% (+/-)	N/A
% with first name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with middle name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with last name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.0	0.0	Div by 0	30% (+/-)	N/A
% female	0.0	0.0	Div by 0	30% (+/-)	N/A
% with credential	0.0	0.0	Div by 0	30% (+/-)	N/A
% with business name	100.0	100.0	0.00	30% (+/-)	Yes
% with address line 1	100.0	100.0	0.00	30% (+/-)	Yes
% with city	100.0	100.0	0.00	30% (+/-)	Yes
% with state	100.0	100.0	0.00	30% (+/-)	Yes
% state = LT state code	99.0	99.5	0.42	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	99.8	92.4	-7.40	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	100.0	0.00	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	1,873	1,702	-9.13	30% (+/-)	Yes
% individual or group of individuals	0.1	0.4	675.47	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.0	0.0	Div by 0	30% (+/-)	N/A
% behavioral health and social service providers	0.1	0.4	675.47	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: PA

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	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	99.9	99.6	-0.36	30% (+/-)	Yes
% agencies	0.6	0.6	0.17	30% (+/-)	Yes
% ambulatory health care facilities	0.6	0.9	60.14	30% (+/-)	Yes
% hospital units	8.6	8.6	-0.82	30% (+/-)	Yes
% hospitals	3.0	4.2	39.01	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	82.2	80.7	-1.82	30% (+/-)	Yes
% residential treatment facilities	4.9	4.6	-6.70	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.0	0.0	Div by 0	30% (+/-)	N/A
% transportation services	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	0	0	Div by 0	30% (+/-)	N/A
% a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not answered	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	1,877	1,842	-1.86	30% (+/-)	Yes
% organization is a subpart	9.9	10.5	6.31	30% (+/-)	Yes
% organization is not a subpart	55.6	57.1	2.68	30% (+/-)	Yes
% not answered	34.5	32.4	-6.12	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: PA

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	92,945	97,737	5.16	30% (+/-)	Yes
% billing provider on OT claim	22.1	20.9	-5.09	N/A	N/A
% servicing provider on OT claim	57.9	58.0	0.18	N/A	N/A
% NPI servicing provider on OT claim	42.1	42.0	-0.25	N/A	N/A
% also a provider on IP claim	0.7	0.7	-8.93	N/A	N/A
% also a provider on LT claim	0.6	0.6	-4.44	N/A	N/A
% also a provider on RX claim	5.3	5.3	-0.43	N/A	N/A
% provider IDs with NPI	90.3	89.5	-0.96	30% (+/-)	Yes
% provider IDs linked to NPES	89.9	89.5	-0.52	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	466.0	515.5	10.64	30% (+/-)	Yes
average number of beneficiaries with OT claims	86.8	88.0	1.30	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	83,960	87,444	4.15	30% (+/-)	Yes
% NPI source = MSIS	99.9	99.9	0.01	30% (+/-)	Yes
% NPI source = NPES	0.1	0.1	-11.11	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPES					
Number of provider IDs linked to NPES	83,585	87,434	4.60	30% (+/-)	Yes
% linked via NPI	99.9	99.9	0.01	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.1	0.1	-11.11	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	38.1	38.8	1.79	30% (+/-)	Yes
% with first name	82.6	83.5	1.13	30% (+/-)	Yes
% with middle name	61.5	61.9	0.52	30% (+/-)	Yes
% with last name	82.6	83.5	1.13	30% (+/-)	Yes
% with name suffix	2.6	2.6	-2.28	30% (+/-)	Yes
% male	56.6	56.1	-0.82	30% (+/-)	Yes
% female	26.0	27.4	5.36	30% (+/-)	Yes
% with credential	80.2	80.8	0.81	30% (+/-)	Yes
% with business name	17.4	16.2	-7.31	30% (+/-)	Yes
% with address line 1	100.0	99.7	-0.34	30% (+/-)	Yes
% with city	100.0	99.7	-0.34	30% (+/-)	Yes
% with state	100.0	99.7	-0.34	30% (+/-)	Yes
% state = OT state code	89.0	88.0	-1.02	30% (+/-)	Yes
% with zip code	100.0	99.7	-0.34	30% (+/-)	Yes
% with primary taxonomy	99.6	98.4	-1.27	30% (+/-)	Yes
% with provider entity type = individual	82.6	83.5	1.13	30% (+/-)	Yes
% with provider entity type = organization	17.4	16.2	-7.31	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 NPES Primary Taxonomy					
Number of provider IDs with NPES primary taxonomy	83,570	85,992	2.90	30% (+/-)	Yes
% individual or group of individuals	83.8	85.0	1.38	30% (+/-)	Yes
% allopathic and osteopathic physicians	64.9	63.8	-1.76	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: PA

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	0.5	0.5	-0.41	30% (+/-)	Yes
% chiropractic providers	1.4	1.3	-6.19	30% (+/-)	Yes
% dental providers	2.8	3.1	8.98	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	7.69	30% (+/-)	Yes
% emergency medical service providers	0.0	0.1	540.00	30% (+/-)	Yes
% eye and vision service providers	1.3	1.3	0.62	30% (+/-)	Yes
% nursing service providers	0.6	0.6	13.38	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	1.5	4.5	199.80	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	308.33	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	1.9	2.2	18.25	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.6	1.6	0.76	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	3.6	3.7	0.69	30% (+/-)	Yes
% speech, language, and hearing service providers	1.9	2.2	12.85	30% (+/-)	Yes
% student health care	0.0	0.2	485.71	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	175.00	30% (+/-)	Yes
% group of individuals with multi- or single specialty	1.8	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	16.2	15.0	-7.18	30% (+/-)	Yes
% agencies	3.9	3.6	-7.61	30% (+/-)	Yes
% ambulatory health care facilities	3.1	2.4	-21.11	30% (+/-)	Yes
% hospital units	0.0	0.1	72.22	30% (+/-)	Yes
% hospitals	1.5	1.6	9.56	30% (+/-)	Yes
% laboratories	0.6	0.4	-30.41	30% (+/-)	Yes
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.6	0.6	-5.01	30% (+/-)	Yes
% residential treatment facilities	0.1	0.1	-5.19	30% (+/-)	Yes
% respite care facility	0.0	0.0	0.00	30% (+/-)	Yes
% suppliers	4.4	4.2	-3.08	30% (+/-)	Yes
% transportation services	2.0	2.0	-1.86	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	69,022	73,015	5.79	30% (+/-)	Yes
% a sole proprietorship	15.3	15.8	3.38	30% (+/-)	Yes
% not a sole proprietorship	72.2	73.5	1.68	30% (+/-)	Yes
% not answered	12.5	10.8	-13.86	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	14,563	14,121	-3.04	30% (+/-)	Yes
% organization is a subpart	10.1	10.9	8.27	30% (+/-)	Yes
% organization is not a subpart	64.2	66.1	3.03	30% (+/-)	Yes
% not answered	25.7	23.0	-10.79	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: PA

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	25,052	25,612	2.24	30% (+/-)	Yes
% billing provider on OT claim	100.0	100.0	0.00	N/A	N/A
% servicing provider on OT claim	81.8	79.9	-2.38	N/A	N/A
% NPI servicing provider on OT claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on IP claim	1.4	1.3	-5.24	N/A	N/A
% also a provider on LT claim	1.1	1.1	-1.52	N/A	N/A
% also a provider on RX claim	6.6	6.9	4.36	N/A	N/A
% provider IDs with NPI	53.0	48.6	-8.23	30% (+/-)	Yes
% provider IDs linked to NPPES	52.7	48.6	-7.72	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of OT claims	3,321.8	3,536.0	6.45	30% (+/-)	Yes
average number of beneficiaries with OT claims	325.4	330.9	1.68	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	13,269	12,449	-6.18	30% (+/-)	Yes
% NPI source = MSIS	99.6	99.5	-0.04	30% (+/-)	Yes
% NPI source = NPPES	0.4	0.5	8.37	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	13,196	12,449	-5.66	30% (+/-)	Yes
% linked via NPI	99.6	99.5	-0.03	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.4	0.5	7.87	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	25.8	25.1	-2.59	30% (+/-)	Yes
% with first name	44.6	42.2	-5.42	30% (+/-)	Yes
% with middle name	36.2	34.2	-5.55	30% (+/-)	Yes
% with last name	44.6	42.2	-5.42	30% (+/-)	Yes
% with name suffix	2.2	2.1	-6.01	30% (+/-)	Yes
% male	34.3	32.6	-4.81	30% (+/-)	Yes
% female	10.4	9.6	-7.43	30% (+/-)	Yes
% with credential	43.7	41.3	-5.50	30% (+/-)	Yes
% with business name	55.4	57.4	3.56	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.44	30% (+/-)	Yes
% with city	100.0	99.6	-0.44	30% (+/-)	Yes
% with state	100.0	99.6	-0.44	30% (+/-)	Yes
% state = OT state code	91.7	91.1	-0.71	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.44	30% (+/-)	Yes
% with primary taxonomy	99.5	97.5	-2.08	30% (+/-)	Yes
% with provider entity type = individual	44.6	42.2	-5.42	30% (+/-)	Yes
% with provider entity type = organization	55.4	57.4	3.56	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	13,194	12,133	-8.04	30% (+/-)	Yes
% individual or group of individuals	51.9	50.0	-3.54	30% (+/-)	Yes
% allopathic and osteopathic physicians	28.6	28.3	-1.02	30% (+/-)	Yes

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

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

2009-2010 MAX OT Billing Provider Characteristics Validation Table

State: PA

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	1.0	1.2	20.84	30% (+/-)	Yes
% chiropractic providers	3.6	3.6	0.36	30% (+/-)	Yes
% dental providers	5.2	5.6	8.58	30% (+/-)	Yes
% dietary and nutritional service providers	0.1	0.1	-17.17	30% (+/-)	Yes
% emergency medical service providers	0.0	0.2	830.43	30% (+/-)	Yes
% eye and vision service providers	2.8	2.7	-2.94	30% (+/-)	Yes
% nursing service providers	0.3	0.2	-29.37	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.8	2.1	162.74	30% (+/-)	Yes
% pharmacy service providers	0.0	0.2	334.21	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	0.9	0.6	-31.60	30% (+/-)	Yes
% podiatric medicine and surgery service providers	3.2	3.2	2.22	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.3	1.1	-15.53	30% (+/-)	Yes
% speech, language, and hearing service providers	0.9	0.9	-2.07	30% (+/-)	Yes
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	8.70	30% (+/-)	Yes
% group of individuals with multi- or single specialty	3.2	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	48.1	50.0	3.81	30% (+/-)	Yes
% agencies	8.7	8.8	1.80	30% (+/-)	Yes
% ambulatory health care facilities	10.2	8.7	-14.91	30% (+/-)	Yes
% hospital units	0.2	0.3	75.29	30% (+/-)	Yes
% hospitals	4.9	6.1	26.18	30% (+/-)	Yes
% laboratories	1.9	1.4	-23.72	30% (+/-)	Yes
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	2.0	2.1	6.27	30% (+/-)	Yes
% residential treatment facilities	0.3	0.3	-2.86	30% (+/-)	Yes
% respite care facility	0.0	0.0	0.00	30% (+/-)	Yes
% suppliers	13.7	15.2	10.61	30% (+/-)	Yes
% transportation services	6.4	7.0	10.31	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	5,886	5,252	-10.77	30% (+/-)	Yes
% a sole proprietorship	38.4	43.1	12.07	30% (+/-)	Yes
% not a sole proprietorship	49.8	46.3	-7.18	30% (+/-)	Yes
% not answered	11.7	10.6	-9.07	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	7,310	7,142	-2.30	30% (+/-)	Yes
% organization is a subpart	10.5	11.3	7.00	30% (+/-)	Yes
% organization is not a subpart	69.4	71.7	3.40	30% (+/-)	Yes
% not answered	20.1	17.0	-15.43	N/A	N/A

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

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2009-2010 MAX RX Billing Provider Characteristics Validation Table

State: PA

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	7,260	7,615	4.89	30% (+/-)	Yes
% billing provider on RX claim	49.7	51.3	3.21	N/A	N/A
% prescribing provider on RX claim	1.7	1.8	3.81	N/A	N/A
% NPI billing provider on RX claim	50.3	48.7	-3.17	N/A	N/A
% also a provider on IP claim	0.1	0.0	-52.73	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	42.5	41.5	-2.34	N/A	N/A
% provider IDs with NPI	99.8	99.9	0.10	30% (+/-)	Yes
% provider IDs linked to NPPES	99.1	99.9	0.82	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	2,435.9	2,467.4	1.30	30% (+/-)	Yes
average number of beneficiaries with RX claims	215.7	218.0	1.08	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	7,246	7,608	5.00	30% (+/-)	Yes
% NPI source = MSIS	100.0	100.0	0.00	30% (+/-)	Yes
% NPI source = NPPES	0.0	0.0	-7.14	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	7,194	7,608	5.75	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	-7.14	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	2.8	2.0	-28.74	30% (+/-)	Yes
% with first name	4.6	3.8	-18.30	30% (+/-)	Yes
% with middle name	3.8	3.0	-21.03	30% (+/-)	Yes
% with last name	4.6	3.8	-18.30	30% (+/-)	Yes
% with name suffix	0.2	0.1	-48.37	30% (+/-)	Yes
% male	3.7	2.9	-22.15	30% (+/-)	Yes
% female	0.9	0.9	-2.54	30% (+/-)	Yes
% with credential	4.6	3.8	-17.80	30% (+/-)	Yes
% with business name	95.4	95.7	0.33	30% (+/-)	Yes
% with address line 1	100.0	99.5	-0.53	30% (+/-)	Yes
% with city	100.0	99.5	-0.53	30% (+/-)	Yes
% with state	100.0	99.5	-0.53	30% (+/-)	Yes
% state = RX state code	95.1	94.8	-0.34	30% (+/-)	Yes
% with zip code	100.0	99.5	-0.53	30% (+/-)	Yes
% with primary taxonomy	98.9	97.9	-0.99	30% (+/-)	Yes
% with provider entity type = individual	4.6	3.8	-18.30	30% (+/-)	Yes
% with provider entity type = organization	95.4	95.7	0.33	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	7,122	7,449	4.59	30% (+/-)	Yes
% individual or group of individuals	16.1	17.3	7.10	30% (+/-)	Yes
% allopathic and osteopathic physicians	9.5	13.5	42.91	30% (+/-)	No

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: PA

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	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.1	0.8	437.14	30% (+/-)	Yes
% pharmacy service providers	2.4	2.7	12.76	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	0.1	0.3	219.05	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	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	4.0	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	83.9	82.7	-1.37	30% (+/-)	Yes
% agencies	0.1	0.4	187.30	30% (+/-)	Yes
% ambulatory health care facilities	3.3	2.5	-24.65	30% (+/-)	Yes
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	0.1	0.1	-4.29	30% (+/-)	Yes
% laboratories	0.7	0.0	-100.00	30% (+/-)	Yes
% managed care organizations	0.0	0.0	-3.57	30% (+/-)	Yes
% nursing and custodial care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	79.6	79.7	0.13	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	331	286	-13.60	30% (+/-)	Yes
% a sole proprietorship	32.6	29.7	-8.91	30% (+/-)	Yes
% not a sole proprietorship	61.3	62.2	1.48	30% (+/-)	Yes
% not answered	6.0	8.0	33.10	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	6,863	7,282	6.11	30% (+/-)	Yes
% organization is a subpart	15.3	15.1	-1.73	30% (+/-)	Yes
% organization is not a subpart	75.8	77.4	2.07	30% (+/-)	Yes
% not answered	8.9	7.6	-14.74	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: PA

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	65,853	67,728	2.85	30% (+/-)	Yes
% billing provider on RX claim	0.0	0.0	Div by 0	N/A	N/A
% prescribing provider on RX claim	100.0	100.0	0.00	N/A	N/A
% NPI billing provider on RX claim	0.2	0.2	5.85	N/A	N/A
% also a provider on IP claim	0.1	0.1	-9.09	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	3.4	3.6	5.61	N/A	N/A
% provider IDs with NPI	3.6	3.8	6.60	30% (+/-)	Yes
% provider IDs linked to NPPES	3.5	3.8	7.51	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	137.6	139.1	1.08	30% (+/-)	Yes
average number of beneficiaries with RX claims	20.5	20.9	2.17	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	2,343	2,569	9.65	30% (+/-)	Yes
% NPI source = MSIS	98.8	99.0	0.14	30% (+/-)	Yes
% NPI source = NPPES	1.2	1.0	-12.15	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	2,323	2,569	10.59	30% (+/-)	Yes
% linked via NPI	98.8	99.0	0.15	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.7	0.7	-3.92	30% (+/-)	Yes
% linked via Medicare UPIN	0.5	0.4	-26.16	30% (+/-)	Yes
% with name prefix	49.8	44.8	-9.89	30% (+/-)	Yes
% with first name	92.6	92.3	-0.33	30% (+/-)	Yes
% with middle name	71.5	70.2	-1.79	30% (+/-)	Yes
% with last name	92.6	92.3	-0.33	30% (+/-)	Yes
% with name suffix	3.7	3.3	-11.67	30% (+/-)	Yes
% male	66.9	61.0	-8.88	30% (+/-)	Yes
% female	25.7	31.3	21.98	30% (+/-)	Yes
% with credential	91.8	90.7	-1.27	30% (+/-)	Yes
% with business name	7.4	7.4	-0.11	30% (+/-)	Yes
% with address line 1	100.0	99.7	-0.31	30% (+/-)	Yes
% with city	100.0	99.7	-0.31	30% (+/-)	Yes
% with state	100.0	99.7	-0.31	30% (+/-)	Yes
% state = RX state code	89.7	88.3	-1.59	30% (+/-)	Yes
% with zip code	100.0	99.7	-0.31	30% (+/-)	Yes
% with primary taxonomy	99.6	98.8	-0.78	30% (+/-)	Yes
% with provider entity type = individual	92.6	92.3	-0.33	30% (+/-)	Yes
% with provider entity type = organization	7.4	7.4	-0.11	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	2,329	2,538	8.97	30% (+/-)	Yes
% individual or group of individuals	94.6	96.8	2.35	30% (+/-)	Yes
% allopathic and osteopathic physicians	74.8	90.2	20.56	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: PA

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	0.1	0.0	-54.65	30% (+/-)	Yes
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	12.4	1.6	-86.99	30% (+/-)	No
% 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	1.2	1.1	-1.38	30% (+/-)	Yes
% nursing service providers	0.0	0.1	83.72	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.9	1.9	95.98	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	1.5	0.6	-59.52	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.2	0.5	-62.01	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.1	0.0	-69.77	30% (+/-)	Yes
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.1	0.7	480.62	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	2.1	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	5.4	3.2	-41.02	30% (+/-)	Yes
% agencies	0.3	0.2	-34.55	30% (+/-)	Yes
% ambulatory health care facilities	1.4	1.2	-11.14	30% (+/-)	Yes
% hospital units	0.1	0.0	-54.65	30% (+/-)	Yes
% hospitals	1.6	1.6	-1.04	30% (+/-)	Yes
% laboratories	0.6	0.1	-85.84	30% (+/-)	Yes
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	1.5	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	2,151	2,371	10.23	30% (+/-)	Yes
% a sole proprietorship	21.6	17.5	-19.04	30% (+/-)	Yes
% not a sole proprietorship	68.0	74.8	9.94	30% (+/-)	Yes
% not answered	10.4	7.7	-25.55	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	172	190	10.47	30% (+/-)	Yes
% organization is a subpart	18.0	11.1	-38.67	30% (+/-)	No
% organization is not a subpart	64.5	75.3	16.62	30% (+/-)	Yes
% not answered	17.4	13.7	-21.55	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: PA

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	166,706	173,976	4.36	30%(+/-)	Yes
% billing provider on IP claim	0.3	0.2	-7.92	N/A	N/A
% NPI billing provider on IP claim	0.3	0.2	-6.40	N/A	N/A
% billing provider on LT claim	0.6	0.6	-5.97	N/A	N/A
% NPI billing provider on LT claim	0.5	0.5	-5.92	N/A	N/A
% billing provider on OT claim	15.0	14.7	-2.04	N/A	N/A
% servicing provider on OT claim	32.3	32.6	0.95	N/A	N/A
% NPI servicing provider on OT claim	23.5	23.6	0.51	N/A	N/A
% billing provider on RX claim	2.2	2.2	3.74	N/A	N/A
% prescribing provider on RX claim	39.5	38.9	-1.45	N/A	N/A
% NPI billing provider on RX claim	2.2	2.1	-2.69	N/A	N/A
% billing provider	16.7	16.4	-1.70	N/A	N/A
% NPI billing provider	3.0	2.9	-3.58	N/A	N/A
% servicing provider	32.3	32.6	0.95	N/A	N/A
% NPI servicing provider	23.5	23.6	0.51	N/A	N/A
% prescribing provider	39.5	38.9	-1.45	N/A	N/A
% provider IDs with NPI	54.0	53.9	-0.14	30%(+/-)	Yes
% provider IDs linked to NPPES	53.8	53.9	0.31	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	841.9	876.9	4.17	30%(+/-)	Yes
average number of beneficiaries with claims	105.0	106.5	1.44	30%(+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	90,023	93,822	4.22	30%(+/-)	Yes
% NPI source = MSIS	99.9	99.9	0.01	30%(+/-)	Yes
% NPI source = NPPES	0.1	0.1	-8.62	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	89,612	93,812	4.69	30%(+/-)	Yes
% linked via NPI	99.9	99.9	0.01	30%(+/-)	Yes
% linked via Medicaid legacy provider ID	0.1	0.1	-7.69	30%(+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	-16.67	30%(+/-)	Yes
% with name prefix	35.6	36.2	1.71	30%(+/-)	Yes
% with first name	77.1	77.9	1.05	30%(+/-)	Yes
% with middle name	57.4	57.7	0.44	30%(+/-)	Yes
% with last name	77.1	77.9	1.05	30%(+/-)	Yes
% with name suffix	2.5	2.4	-2.41	30%(+/-)	Yes
% male	52.8	52.3	-0.88	30%(+/-)	Yes
% female	24.3	25.5	5.26	30%(+/-)	Yes
% with credential	74.8	75.4	0.74	30%(+/-)	Yes
% with business name	22.9	21.8	-5.07	30%(+/-)	Yes
% with address line 1	100.0	99.7	-0.35	30%(+/-)	Yes
% with city	100.0	99.7	-0.35	30%(+/-)	Yes
% with state	100.0	99.7	-0.35	30%(+/-)	Yes
% state = claim file state code	89.3	88.4	-0.96	30%(+/-)	Yes
% with zip code	100.0	99.7	-0.35	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: PA

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% with primary taxonomy	99.6	98.2	-1.35	30%(+/-)	Yes
% with provider entity type = individual	77.1	77.9	1.05	30%(+/-)	Yes
% with provider entity type = organization	22.9	21.8	-5.07	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	89,533	92,147	2.92	30%(+/-)	Yes
% individual or group of individuals	79.1	80.3	1.49	30%(+/-)	Yes
% allopathic and osteopathic physicians	61.0	60.3	-1.22	30%(+/-)	Yes
% behavioral health and social service providers	0.5	0.5	1.08	30%(+/-)	Yes
% chiropractic providers	1.3	1.2	-6.24	30%(+/-)	Yes
% dental providers	2.6	2.9	8.97	30%(+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	4.00	30%(+/-)	Yes
% emergency medical service providers	0.0	0.1	566.67	30%(+/-)	Yes
% eye and vision service providers	1.2	1.2	0.66	30%(+/-)	Yes
% nursing service providers	0.5	0.6	13.16	30%(+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30%(+/-)	N/A
% other service providers	1.4	4.2	201.92	30%(+/-)	Yes
% pharmacy service providers	0.2	0.2	17.10	30%(+/-)	Yes
% physician assistants and advanced practice nursing providers	1.8	2.1	18.48	30%(+/-)	Yes
% podiatric medicine and surgery service providers	1.5	1.5	0.88	30%(+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	3.4	3.4	0.71	30%(+/-)	Yes
% speech, language, and hearing service providers	1.8	2.0	12.82	30%(+/-)	Yes
% student health care	0.0	0.2	488.46	30%(+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	162.50	30%(+/-)	Yes
% group of individuals with multi- or single specialty	2.0	0.0	-100.00	30%(+/-)	Yes
% nonindividuals	20.9	19.7	-5.66	30%(+/-)	Yes
% agencies	3.7	3.4	-7.56	30%(+/-)	Yes
% ambulatory health care facilities	2.9	2.4	-19.77	30%(+/-)	Yes
% hospital units	0.3	0.3	-7.69	30%(+/-)	Yes
% hospitals	1.6	1.7	9.39	30%(+/-)	Yes
% laboratories	0.5	0.4	-30.51	30%(+/-)	Yes
% managed care organizations	0.0	0.0	250.00	30%(+/-)	Yes
% nursing and custodial care facilities	1.7	1.5	-12.77	30%(+/-)	Yes
% residential treatment facilities	0.2	0.2	-13.79	30%(+/-)	Yes
% respite care facility	0.0	0.0	0.00	30%(+/-)	Yes
% suppliers	8.1	8.1	-0.06	30%(+/-)	Yes
% transportation services	1.9	1.8	-1.83	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	69,057	73,056	5.79	30%(+/-)	Yes
% a sole proprietorship	15.3	15.8	3.38	30%(+/-)	Yes
% not a sole proprietorship	72.2	73.4	1.68	30%(+/-)	Yes
% not answered	12.5	10.8	-13.84	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	20,555	20,428	-0.62	30%(+/-)	Yes
% organization is a subpart	11.5	11.9	3.73	30%(+/-)	Yes
% organization is not a subpart	65.4	67.7	3.54	30%(+/-)	Yes
% not answered	23.1	20.4	-11.88	N/A	N/A

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

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