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

**State-Specific Validation Tables,
2011**

June 28, 2013

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Mei-ling Mason

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Policy Research

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ACRONYMS

CMS	Centers for Medicare & Medicaid Services
CY	Calendar year
FY	Federal fiscal year
HIPAA	Health Insurance Portability and Accountability Act
ID	Identification/identifier
IP	Inpatient
LT	Long-term care
MAX	Medicaid Analytic Extract
MAXPC	MAX Provider Characteristics File
MSIS	Medicaid Statistical Information System
NPI	National Provider Identifier
NPPES	National Plan and Provider Enumeration System
OT	Other services
RX	Drug
UPIN	Unique Physician Identification Number

INTRODUCTION

The Medicaid Statistical Information System (MSIS) files and the corresponding research-friendly Medicaid Analytic Extract (MAX) files support a wide range of studies on Medicaid enrollment, service use, and expenditures. There is currently considerable interest at the Centers for Medicare & Medicaid Services (CMS) in also examining health reform proposals, program integrity, and access-to-care issues among certain types of Medicaid providers. However, it has not been possible to easily conduct provider-based research activities because the provider identification numbers collected in MSIS are largely unedited, undocumented, and state specific.

The advent of the Health Insurance Portability and Accountability Act (HIPAA) mandated covered entities such as health care providers, health plans, and health care clearinghouses to obtain and use a National Provider Identifier (NPI) in all administrative and financial HIPAA transactions.[1] The NPI is a unique 10-digit, sequentially assigned national identification number, unstructured so as not to carry any way information such as the state or medical specialty of the health care provider who "owns" the identifier. Beginning in February 2009, states were required to include NPIs on claims submitted to MSIS. The main limitation of this identifier, however, is that certain classes of nonmedical providers are not required to obtain an NPI. Nonetheless, the availability of the NPI on MSIS claims makes the development of a uniform provider characteristic file more feasible. The MAX Provider Characteristics (MAXPC) file is such a file.

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

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

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[1] CMS. "National Provider Identifier (NPI) Overview." Available at
http://www.cms.gov/nationalProvIdentstand/.

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

The primary source of data used in the MAXPC 2011 files were the MSIS Valid claims files. The following measures in the MAXPC file were derived from original, unadjusted claims:

- Number of IP Claims for Provider

- Number of Beneficiaries with IP Claims for Provider

- Number of LT Claims for Provider

- Number of Beneficiaries with LT Claims for Provider

- Number of OT Claims for Provider

- Number of Beneficiaries with OT Claims for Provider

- Number of RX Claims for provider

- Number of Beneficiaries with RX Claims for Provider.

2009-2011 MAX IP Billing Provider Characteristics Validation Table
State: SD
Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range[a]	Cross Year 2010-2011 Within Range[b]
IP Providers								
Number of provider IDs	356	361	358	1.40	-0.83	30% (+/-)	Yes	Yes
% billing provider on IP claim	50.6	50.4	50.6	-0.29	0.28	N/A	N/A	N/A
% NPI billing provider on IP claim	49.4	49.6	49.4	0.30	-0.29	N/A	N/A	N/A
% also a provider on LT claim	1.7	0.6	0.8	-67.13	51.26	N/A	N/A	N/A
% also a provider on OT claim	38.5	38.2	40.2	-0.67	5.22	N/A	N/A	N/A
% also a provider on RX claim	0.3	0.0	0.3	-100.00	Div by 0	N/A	N/A	N/A
% provider IDs with NPI	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of IP claims	135.9	136.2	134.9	0.22	-0.95	30% (+/-)	Yes	Yes
average number of beneficiaries with IP claims	116.2	116.6	115.6	0.35	-0.83	30% (+/-)	Yes	Yes
Provider IDs with NPI								
Number of provider IDs with NPI	356	361	358	1.40	-0.83	30% (+/-)	Yes	Yes
% NPI source = MSIS	99.7	100.0	100.0	0.28	0.00	30% (+/-)	Yes	Yes
% NPI source = NPPES	0.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% NPI source = state cross-reference file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs Linked to NPPES								
Number of provider IDs linked to NPPES	356	361	358	1.40	-0.83	30% (+/-)	Yes	Yes
% linked via NPI	99.7	100.0	100.0	0.28	0.00	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	0.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% linked via Medicare UPIN	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with name prefix	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with first name	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with middle name	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with last name	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with name suffix	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% male	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% female	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with credential	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with business name	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with address line 1	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with city	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with state	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% state = IP state code	42.1	40.4	39.7	-4.01	-1.92	30% (+/-)	Yes	Yes
% with zip code	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with primary taxonomy	100.0	99.4	99.4	-0.55	0.00	30% (+/-)	Yes	Yes
% with provider entity type = individual	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with provider entity type = organization	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
Provider IDs with or without NPI but linked to state provider file								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A

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

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

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

2009-2011 MAX IP Billing Provider Characteristics Validation Table
State: SD
Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range[a]	Cross Year 2010-2011 Within Range[b]
Provider IDs with NPPES Primary Taxonomy								
Number of provider IDs with NPPES primary taxonomy	356	359	356	0.84	-0.84	30% (+/-)	Yes	Yes
% individual or group of individuals	1.1	0.6	0.6	-50.42	0.84	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	1.1	0.6	0.6	-50.42	0.84	30% (+/-)	Yes	Yes
% behavioral health and social service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% chiropractic providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% dental providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% dietary and nutritional service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% emergency medical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% eye and vision service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing service-related providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% other service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% pharmacy service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% physician assistants and advanced practice nursing providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% podiatric medicine and surgery service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% speech, language, and hearing service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% student health care	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% group of individuals with multi- or single specialty	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nonindividuals	98.9	99.4	99.4	0.57	0.00	30% (+/-)	Yes	Yes
% agencies	0.0	0.6	0.6	Div by 0	0.84	30% (+/-)	N/A	Yes
% ambulatory health care facilities	0.8	1.1	1.1	32.22	0.84	30% (+/-)	Yes	Yes
% hospital units	8.1	8.6	7.6	6.00	-12.17	30% (+/-)	Yes	Yes
% hospitals	88.2	88.6	90.2	0.43	1.79	30% (+/-)	Yes	Yes
% laboratories	0.6	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% managed care organizations	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing and custodial care facilities	0.8	0.6	0.0	-33.89	-100.00	30% (+/-)	Yes	Yes
% residential treatment facilities	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% respite care facility	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% suppliers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% transportation services	0.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs with Entity Type = Individual								
Number of provider IDs with entity type = individual	0	0	0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% a sole proprietorship	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% not a sole proprietorship	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% not answered	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs with Entity Type = Organization								
Number of provider IDs with entity type = organization	356	361	358	1.40	-0.83	30% (+/-)	Yes	Yes
% organization is a subpart	9.0	8.9	7.8	-1.39	-11.77	30% (+/-)	Yes	Yes
% organization is not a subpart	79.2	82.8	83.2	4.56	0.50	30% (+/-)	Yes	Yes
% not answered	11.8	8.3	8.9	-29.56	7.56	N/A	N/A	N/A

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

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

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

2009-2011 MAX LT Billing Provider Characteristics Validation Table
State: SD
Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range[a]	Cross Year 2010-2011 Within Range[b]
LT Providers								
Number of provider IDs	333	325	311	-2.40	-4.31	30% (+/-)	Yes	Yes
% billing provider on LT claim	51.1	52.0	51.8	1.86	-0.45	N/A	N/A	N/A
% NPI billing provider on LT claim	48.9	48.0	48.2	-1.94	0.48	N/A	N/A	N/A
% also a provider on IP claim	1.8	0.6	1.0	-65.85	56.75	N/A	N/A	N/A
% also a provider on OT claim	9.9	8.3	7.7	-16.17	-7.11	N/A	N/A	N/A
% also a provider on RX claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% provider IDs with NPI	99.4	100.0	100.0	0.60	0.00	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	98.8	100.0	100.0	1.22	0.00	30% (+/-)	Yes	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of LT claims	343.7	345.2	350.5	0.44	1.52	30% (+/-)	Yes	Yes
average number of beneficiaries with LT claims	42.4	42.9	43.5	1.29	1.39	30% (+/-)	Yes	Yes
Provider IDs with NPI								
Number of provider IDs with NPI	331	325	311	-1.81	-4.31	30% (+/-)	Yes	Yes
% NPI source = MSIS	99.4	100.0	100.0	0.61	0.00	30% (+/-)	Yes	Yes
% NPI source = NPPES	0.6	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% NPI source = state cross-reference file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs Linked to NPPES								
Number of provider IDs linked to NPPES	329	325	311	-1.22	-4.31	30% (+/-)	Yes	Yes
% linked via NPI	99.4	100.0	100.0	0.61	0.00	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	0.6	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% linked via Medicare UPIN	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with name prefix	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with first name	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with middle name	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with last name	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with name suffix	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% male	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% female	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with credential	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with business name	100.0	99.4	100.0	-0.62	0.62	30% (+/-)	Yes	Yes
% with address line 1	100.0	99.4	100.0	-0.62	0.62	30% (+/-)	Yes	Yes
% with city	100.0	99.4	100.0	-0.62	0.62	30% (+/-)	Yes	Yes
% with state	100.0	99.4	100.0	-0.62	0.62	30% (+/-)	Yes	Yes
% state = LT state code	92.7	95.7	96.8	3.22	1.14	30% (+/-)	Yes	Yes
% with zip code	100.0	99.4	100.0	-0.62	0.62	30% (+/-)	Yes	Yes
% with primary taxonomy	98.2	95.4	95.8	-2.84	0.46	30% (+/-)	Yes	Yes
% with provider entity type = individual	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with provider entity type = organization	100.0	99.4	100.0	-0.62	0.62	30% (+/-)	Yes	Yes
Provider IDs with or without NPI but linked to state provider file								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A

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

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

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

2009-2011 MAX LT Billing Provider Characteristics Validation Table
State: SD
Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range[a]	Cross Year 2010-2011 Within Range[b]
Provider IDs with NPPES Primary Taxonomy								
Number of provider IDs with NPPES primary taxonomy	325	310	298	-4.62	-3.87	30% (+/-)	Yes	Yes
% individual or group of individuals	1.2	0.6	0.7	-47.58	4.03	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% behavioral health and social service providers	0.9	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% chiropractic providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% dental providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% dietary and nutritional service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% emergency medical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% eye and vision service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing service-related providers	0.3	0.6	0.7	109.68	4.03	30% (+/-)	Yes	Yes
% other service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% pharmacy service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% physician assistants and advanced practice nursing providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% podiatric medicine and surgery service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% speech, language, and hearing service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% student health care	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% group of individuals with multi- or single specialty	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nonindividuals	98.8	99.4	99.3	0.59	-0.03	30% (+/-)	Yes	Yes
% agencies	2.2	1.0	1.0	-55.07	4.03	30% (+/-)	Yes	Yes
% ambulatory health care facilities	11.7	0.0	0.0	-100.00	Div by 0	30% (+/-)	No	N/A
% hospital units	14.5	11.6	10.1	-19.70	-13.31	30% (+/-)	Yes	Yes
% hospitals	9.8	11.3	11.1	14.67	-1.92	30% (+/-)	Yes	Yes
% laboratories	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% managed care organizations	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing and custodial care facilities	59.7	74.2	75.8	24.29	2.22	30% (+/-)	Yes	Yes
% residential treatment facilities	0.9	1.3	1.3	39.78	4.03	30% (+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% suppliers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% transportation services	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs with Entity Type = Individual								
Number of provider IDs with entity type = individual	0	0	0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% a sole proprietorship	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% not a sole proprietorship	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% not answered	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs with Entity Type = Organization								
Number of provider IDs with entity type = organization	329	323	311	-1.82	-3.72	30% (+/-)	Yes	Yes
% organization is a subpart	23.1	25.4	25.1	9.90	-1.21	30% (+/-)	Yes	Yes
% organization is not a subpart	43.2	43.7	46.0	1.14	5.33	30% (+/-)	Yes	Yes
% not answered	33.7	31.0	28.9	-8.24	-6.53	N/A	N/A	N/A

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

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

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

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range[a]	Cross Year 2010-2011 Within Range[b]
OT Providers								
Number of provider IDs	15,492	14,350	18,320	-7.37	27.67	30% (+/-)	Yes	Yes
% billing provider on OT claim	53.2	47.2	50.0	-11.26	5.86	N/A	N/A	N/A
% servicing provider on OT claim	53.3	47.4	50.2	-10.99	5.94	N/A	N/A	N/A
% NPI servicing provider on OT claim	46.7	52.6	49.8	12.54	-5.36	N/A	N/A	N/A
% also a provider on IP claim	0.9	1.0	0.8	8.75	-18.26	N/A	N/A	N/A
% also a provider on LT claim	0.2	0.2	0.1	-11.67	-30.37	N/A	N/A	N/A
% also a provider on RX claim	0.2	0.1	0.8	-44.28	658.82	N/A	N/A	N/A
% provider IDs with NPI	77.3	83.0	83.1	7.34	0.15	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	76.8	82.6	80.8	7.60	-2.23	30% (+/-)	Yes	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of OT claims	356.7	374.8	332.7	5.08	-11.24	30% (+/-)	Yes	Yes
average number of beneficiaries with OT claims	86.4	87.3	79.5	1.00	-8.96	30% (+/-)	Yes	Yes
Provider IDs with NPI								
Number of provider IDs with NPI	11,975	11,906	15,222	-0.58	27.85	30% (+/-)	Yes	Yes
% NPI source = MSIS	87.1	89.7	92.1	3.04	2.63	30% (+/-)	Yes	Yes
% NPI source = NPPES	12.9	10.3	7.9	-20.44	-22.87	30% (+/-)	Yes	Yes
% NPI source = state cross-reference file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs Linked to NPPES								
Number of provider IDs linked to NPPES	11,896	11,856	14,798	-0.34	24.81	30% (+/-)	Yes	Yes
% linked via NPI	87.0	89.7	91.8	3.09	2.42	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	13.0	10.3	8.2	-20.60	-21.06	30% (+/-)	Yes	Yes
% linked via Medicare UPIN	0.0	0.0	0.0	-49.83	60.24	30% (+/-)	Yes	Yes
% with name prefix	19.6	21.0	21.5	7.54	2.24	30% (+/-)	Yes	Yes
% with first name	64.7	66.6	68.8	3.01	3.24	30% (+/-)	Yes	Yes
% with middle name	53.3	55.0	55.6	3.22	1.10	30% (+/-)	Yes	Yes
% with last name	64.7	66.6	68.8	3.01	3.24	30% (+/-)	Yes	Yes
% with name suffix	1.0	1.1	0.9	10.63	-16.15	30% (+/-)	Yes	Yes
% male	41.3	42.3	42.5	2.34	0.63	30% (+/-)	Yes	Yes
% female	23.4	24.3	26.2	4.20	7.77	30% (+/-)	Yes	Yes
% with credential	62.3	64.5	66.6	3.51	3.31	30% (+/-)	Yes	Yes
% with business name	35.3	33.2	31.1	-6.06	-6.26	30% (+/-)	Yes	Yes
% with address line 1	100.0	99.8	99.9	-0.19	0.08	30% (+/-)	Yes	Yes
% with city	100.0	99.8	99.9	-0.19	0.08	30% (+/-)	Yes	Yes
% with state	100.0	99.8	99.9	-0.19	0.08	30% (+/-)	Yes	Yes
% state = OT state code	68.2	66.6	58.7	-2.31	-11.89	30% (+/-)	Yes	Yes
% with zip code	100.0	99.8	99.9	-0.19	0.08	30% (+/-)	Yes	Yes
% with primary taxonomy	99.0	98.4	98.5	-0.65	0.19	30% (+/-)	Yes	Yes
% with provider entity type = individual	64.7	66.6	68.8	3.01	3.24	30% (+/-)	Yes	Yes
% with provider entity type = organization	35.3	33.2	31.1	-6.06	-6.26	30% (+/-)	Yes	Yes
Provider IDs with or without NPI but linked to state provider file								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A

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

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

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

2009-2011 MAX OT Servicing Provider Characteristics Validation Table
State: SD
Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range[a]	Cross Year 2010-2011 Within Range[b]
Provider IDs with NPPES Primary Taxonomy								
Number of provider IDs with NPPES primary taxonomy	11,808	11,661	14,582	-1.24	25.05	30% (+/-)	Yes	Yes
% individual or group of individuals	73.3	77.0	77.9	5.06	1.14	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	43.2	43.4	46.3	0.59	6.58	30% (+/-)	Yes	Yes
% behavioral health and social service providers	4.2	4.4	4.0	4.70	-10.00	30% (+/-)	Yes	Yes
% chiropractic providers	4.4	4.4	3.7	-0.29	-16.60	30% (+/-)	Yes	Yes
% dental providers	0.5	0.4	0.3	-19.33	-13.23	30% (+/-)	Yes	Yes
% dietary and nutritional service providers	0.1	0.1	0.1	-29.12	-8.61	30% (+/-)	Yes	Yes
% emergency medical service providers	0.2	0.1	0.1	-34.18	-1.58	30% (+/-)	Yes	Yes
% eye and vision service providers	3.4	3.3	2.7	-4.04	-16.45	30% (+/-)	Yes	Yes
% nursing service providers	0.2	0.1	0.1	-15.62	1.29	30% (+/-)	Yes	Yes
% nursing service-related providers	0.0	0.1	0.0	51.89	-20.03	30% (+/-)	Yes	Yes
% other service providers	1.2	1.1	1.0	-2.41	-11.01	30% (+/-)	Yes	Yes
% pharmacy service providers	0.0	0.1	0.0	355.67	-37.80	30% (+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	11.5	14.2	14.7	23.83	3.52	30% (+/-)	Yes	Yes
% podiatric medicine and surgery service providers	0.7	0.7	0.6	2.51	-20.03	30% (+/-)	Yes	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	2.3	3.0	2.6	29.08	-13.60	30% (+/-)	Yes	Yes
% speech, language, and hearing service providers	1.1	1.5	1.3	31.41	-12.98	30% (+/-)	Yes	Yes
% student health care	0.0	0.1	0.3	178.47	219.87	30% (+/-)	Yes	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	1.26	-36.03	30% (+/-)	Yes	Yes
% group of individuals with multi- or single specialty	0.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nonindividuals	26.7	23.0	22.1	-13.89	-3.82	30% (+/-)	Yes	Yes
% agencies	4.8	3.9	3.5	-17.48	-10.08	30% (+/-)	Yes	Yes
% ambulatory health care facilities	4.2	3.6	4.3	-14.00	19.67	30% (+/-)	Yes	Yes
% hospital units	0.1	0.0	0.0	-84.42	-100.00	30% (+/-)	Yes	Yes
% hospitals	6.2	3.6	4.4	-41.64	21.38	30% (+/-)	Yes	Yes
% laboratories	0.7	0.8	0.7	12.51	-8.48	30% (+/-)	Yes	Yes
% managed care organizations	0.0	0.0	0.0	-24.05	6.62	30% (+/-)	Yes	Yes
% nursing and custodial care facilities	2.3	2.2	1.8	-1.38	-19.73	30% (+/-)	Yes	Yes
% residential treatment facilities	0.3	0.4	0.3	28.43	-38.49	30% (+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	-32.49	59.94	30% (+/-)	Yes	Yes
% suppliers	5.4	5.5	4.9	3.50	-11.99	30% (+/-)	Yes	Yes
% transportation services	2.8	2.9	2.2	1.26	-21.23	30% (+/-)	Yes	Yes
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs with Entity Type = Individual								
Number of provider IDs with entity type = individual	7,692	7,897	10,176	2.67	28.86	30% (+/-)	Yes	Yes
% a sole proprietorship	10.0	10.6	10.1	6.11	-4.77	30% (+/-)	Yes	Yes
% not a sole proprietorship	77.7	82.1	83.6	5.67	1.87	30% (+/-)	Yes	Yes
% not answered	12.3	7.3	6.2	-40.84	-14.15	N/A	N/A	N/A
Provider IDs with Entity Type = Organization								
Number of provider IDs with entity type = organization	4,204	3,936	4,605	-6.37	17.00	30% (+/-)	Yes	Yes
% organization is a subpart	9.0	9.1	9.9	1.14	9.65	30% (+/-)	Yes	Yes
% organization is not a subpart	67.6	71.3	71.8	5.34	0.74	30% (+/-)	Yes	Yes
% not answered	23.4	19.7	18.3	-15.90	-7.13	N/A	N/A	N/A

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

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2009-2011 MAX OT Billing Provider Characteristics Validation Table
State: SD
Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range[a]	Cross Year 2010-2011 Within Range[b]
OT Providers								
Number of provider IDs	8,303	8,463	9,425	1.93	11.37	30% (+/-)	Yes	Yes
% billing provider on OT claim	100.0	100.0	100.0	0.00	0.00	N/A	N/A	N/A
% servicing provider on OT claim	99.3	80.1	97.1	-19.35	21.35	N/A	N/A	N/A
% NPI servicing provider on OT claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% also a provider on IP claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% also a provider on LT claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% also a provider on RX claim	0.1	0.2	0.1	6.29	-17.11	N/A	N/A	N/A
% provider IDs with NPI	57.1	53.7	64.6	-6.07	20.41	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	57.1	53.7	64.6	-5.97	20.38	30% (+/-)	Yes	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of OT claims	535.0	438.8	373.0	-17.97	-15.00	30% (+/-)	Yes	Yes
average number of beneficiaries with OT claims	102.3	102.3	82.8	-0.06	-19.06	30% (+/-)	Yes	Yes
Provider IDs with NPI								
Number of provider IDs with NPI	4,745	4,543	6,092	-4.26	34.10	30% (+/-)	Yes	No
% NPI source = MSIS	67.0	68.5	79.8	2.15	16.51	30% (+/-)	Yes	Yes
% NPI source = NPPES	33.0	31.5	20.2	-4.36	-35.83	30% (+/-)	Yes	No
% NPI source = state cross-reference file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs Linked to NPPES								
Number of provider IDs linked to NPPES	4,738	4,541	6,088	-4.16	34.07	30% (+/-)	Yes	No
% linked via NPI	67.0	68.4	79.7	2.20	16.52	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	33.0	31.5	20.2	-4.41	-35.88	30% (+/-)	Yes	No
% linked via Medicare UPIN	0.0	0.0	0.0	-47.83	49.18	30% (+/-)	Yes	Yes
% with name prefix	17.6	19.4	19.1	10.09	-1.59	30% (+/-)	Yes	Yes
% with first name	57.5	60.1	62.0	4.41	3.19	30% (+/-)	Yes	Yes
% with middle name	48.5	51.2	52.1	5.56	1.77	30% (+/-)	Yes	Yes
% with last name	57.5	60.1	62.0	4.41	3.19	30% (+/-)	Yes	Yes
% with name suffix	0.7	0.9	0.8	22.22	-10.86	30% (+/-)	Yes	Yes
% male	37.0	38.3	38.5	3.39	0.74	30% (+/-)	Yes	Yes
% female	20.5	21.8	23.5	6.27	7.48	30% (+/-)	Yes	Yes
% with credential	55.7	58.6	60.2	5.17	2.77	30% (+/-)	Yes	Yes
% with business name	42.5	39.9	37.9	-6.14	-4.81	30% (+/-)	Yes	Yes
% with address line 1	100.0	99.9	99.9	-0.07	0.00	30% (+/-)	Yes	Yes
% with city	100.0	99.9	99.9	-0.07	0.00	30% (+/-)	Yes	Yes
% with state	100.0	99.9	99.9	-0.07	0.00	30% (+/-)	Yes	Yes
% state = OT state code	73.8	73.2	61.3	-0.91	-16.18	30% (+/-)	Yes	Yes
% with zip code	100.0	99.9	99.9	-0.07	0.00	30% (+/-)	Yes	Yes
% with primary taxonomy	99.2	98.2	98.4	-0.97	0.14	30% (+/-)	Yes	Yes
% with provider entity type = individual	57.5	60.1	62.0	4.41	3.19	30% (+/-)	Yes	Yes
% with provider entity type = organization	42.5	39.9	37.9	-6.14	-4.81	30% (+/-)	Yes	Yes
Provider IDs with or without NPI but linked to state provider file								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A

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

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Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range[a]	Cross Year 2010-2011 Within Range[b]
Provider IDs with NPPES Primary Taxonomy								
Number of provider IDs with NPPES primary taxonomy	4,704	4,461	5,989	-5.17	34.25	30% (+/-)	Yes	No
% individual or group of individuals	66.3	70.9	71.7	6.97	1.15	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	35.2	37.3	41.1	5.83	10.39	30% (+/-)	Yes	Yes
% behavioral health and social service providers	4.5	4.8	4.2	6.95	-12.29	30% (+/-)	Yes	Yes
% chiropractic providers	4.2	4.1	3.2	-1.01	-21.47	30% (+/-)	Yes	Yes
% dental providers	0.7	0.6	0.5	-14.96	-16.58	30% (+/-)	Yes	Yes
% dietary and nutritional service providers	0.1	0.1	0.1	-15.64	-25.51	30% (+/-)	Yes	Yes
% emergency medical service providers	0.2	0.1	0.1	-36.73	-13.10	30% (+/-)	Yes	Yes
% eye and vision service providers	3.2	2.9	2.3	-10.02	-21.44	30% (+/-)	Yes	Yes
% nursing service providers	0.1	0.1	0.1	-24.68	19.18	30% (+/-)	Yes	Yes
% nursing service-related providers	0.0	0.1	0.1	110.89	-25.51	30% (+/-)	Yes	Yes
% other service providers	1.2	1.2	1.0	-5.46	-11.19	30% (+/-)	Yes	Yes
% pharmacy service providers	0.0	0.1	0.1	427.24	-40.41	30% (+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	12.0	14.3	14.5	18.91	1.66	30% (+/-)	Yes	Yes
% podiatric medicine and surgery service providers	0.7	0.7	0.5	-4.44	-22.94	30% (+/-)	Yes	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	2.2	3.1	2.5	37.58	-20.08	30% (+/-)	Yes	Yes
% speech, language, and hearing service providers	1.4	1.5	1.2	5.45	-20.04	30% (+/-)	Yes	Yes
% student health care	0.0	0.0	0.2	Div by 0	868.33	30% (+/-)	N/A	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	5.45	-25.51	30% (+/-)	Yes	Yes
% group of individuals with multi- or single specialty	0.4	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nonindividuals	33.7	29.1	28.3	-13.69	-2.81	30% (+/-)	Yes	Yes
% agencies	6.0	5.7	4.8	-4.31	-15.58	30% (+/-)	Yes	Yes
% ambulatory health care facilities	4.8	4.8	6.0	1.23	23.45	30% (+/-)	Yes	Yes
% hospital units	0.2	0.0	0.0	-89.46	-100.00	30% (+/-)	Yes	Yes
% hospitals	7.9	2.7	4.9	-65.80	80.63	30% (+/-)	Yes	Yes
% laboratories	0.8	0.9	0.8	11.15	-6.41	30% (+/-)	Yes	Yes
% managed care organizations	0.0	0.0	0.0	-47.28	48.97	30% (+/-)	Yes	Yes
% nursing and custodial care facilities	3.1	3.0	2.3	-3.22	-24.40	30% (+/-)	Yes	Yes
% residential treatment facilities	0.5	0.6	0.4	29.41	-42.07	30% (+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	-47.28	48.97	30% (+/-)	Yes	Yes
% suppliers	6.7	7.5	6.3	12.19	-15.45	30% (+/-)	Yes	Yes
% transportation services	3.8	3.9	2.8	1.32	-26.81	30% (+/-)	Yes	Yes
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs with Entity Type = Individual								
Number of provider IDs with entity type = individual	2,726	2,728	3,774	0.07	38.34	30% (+/-)	Yes	No
% a sole proprietorship	10.5	11.4	10.9	8.28	-4.47	30% (+/-)	Yes	Yes
% not a sole proprietorship	81.6	83.3	84.5	2.04	1.43	30% (+/-)	Yes	Yes
% not answered	7.9	5.3	4.6	-32.29	-12.76	N/A	N/A	N/A
Provider IDs with Entity Type = Organization								
Number of provider IDs with entity type = organization	2,012	1,810	2,310	-10.04	27.62	30% (+/-)	Yes	Yes
% organization is a subpart	9.3	9.7	10.4	3.47	7.91	30% (+/-)	Yes	Yes
% organization is not a subpart	65.7	69.0	70.3	4.94	1.90	30% (+/-)	Yes	Yes
% not answered	25.0	21.4	19.3	-14.30	-9.70	N/A	N/A	N/A

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

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

2009-2011 MAX RX Billing Provider Characteristics Validation Table
State: SD
Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range[a]	Cross Year 2010-2011 Within Range[b]
RX Providers								
Number of provider IDs	428	408	649	-4.67	59.07	30% (+/-)	Yes	No
% billing provider on RX claim	81.1	84.3	53.3	4.00	-36.77	N/A	N/A	N/A
% prescribing provider on RX claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% NPI billing provider on RX claim	18.9	15.7	46.7	-17.11	197.63	N/A	N/A	N/A
% also a provider on IP claim	0.2	0.0	0.2	-100.00	Div by 0	N/A	N/A	N/A
% also a provider on LT claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% also a provider on OT claim	7.2	7.1	24.2	-1.87	240.34	N/A	N/A	N/A
% provider IDs with NPI	74.5	69.4	96.0	-6.94	38.39	30% (+/-)	Yes	No
% provider IDs linked to NPPES	74.1	69.4	96.0	-6.35	38.39	30% (+/-)	Yes	No
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of RX claims	2052.0	2,293.0	1,887.9	11.75	-17.67	30% (+/-)	Yes	Yes
average number of beneficiaries with RX claims	261.3	282.9	261.7	8.27	-7.47	30% (+/-)	Yes	Yes
Provider IDs with NPI								
Number of provider IDs with NPI	319	283	623	-11.29	120.14	30% (+/-)	Yes	No
% NPI source = MSIS	52.4	45.6	98.9	-12.93	116.91	30% (+/-)	Yes	No
% NPI source = NPPES	47.6	54.4	1.1	14.20	-97.94	30% (+/-)	Yes	No
% NPI source = state cross-reference file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs Linked to NPPES								
Number of provider IDs linked to NPPES	317	283	623	-10.73	120.14	30% (+/-)	Yes	No
% linked via NPI	52.1	45.6	98.9	-12.43	116.91	30% (+/-)	Yes	No
% linked via Medicaid legacy provider ID	47.9	54.4	1.1	13.49	-97.94	30% (+/-)	Yes	No
% linked via Medicare UPIN	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with name prefix	0.3	0.0	0.2	-100.00	Div by 0	30% (+/-)	Yes	N/A
% with first name	0.3	0.0	0.2	-100.00	Div by 0	30% (+/-)	Yes	N/A
% with middle name	0.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% with last name	0.3	0.0	0.2	-100.00	Div by 0	30% (+/-)	Yes	N/A
% with name suffix	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% male	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% female	0.3	0.0	0.2	-100.00	Div by 0	30% (+/-)	Yes	N/A
% with credential	0.3	0.0	0.2	-100.00	Div by 0	30% (+/-)	Yes	N/A
% with business name	99.7	99.3	99.2	-0.39	-0.10	30% (+/-)	Yes	Yes
% with address line 1	100.0	99.3	99.4	-0.71	0.07	30% (+/-)	Yes	Yes
% with city	100.0	99.3	99.4	-0.71	0.07	30% (+/-)	Yes	Yes
% with state	100.0	99.3	99.4	-0.71	0.07	30% (+/-)	Yes	Yes
% state = RX state code	73.5	74.9	67.3	1.92	-10.22	30% (+/-)	Yes	Yes
% with zip code	100.0	99.3	99.4	-0.71	0.07	30% (+/-)	Yes	Yes
% with primary taxonomy	99.1	98.2	98.1	-0.83	-0.16	30% (+/-)	Yes	Yes
% with provider entity type = individual	0.3	0.0	0.2	-100.00	Div by 0	30% (+/-)	Yes	N/A
% with provider entity type = organization	99.7	99.3	99.2	-0.39	-0.10	30% (+/-)	Yes	Yes
Provider IDs with or without NPI but linked to state provider file								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A

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

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

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range[a]	Cross Year 2010-2011 Within Range[b]
Provider IDs with NPPES Primary Taxonomy								
Number of provider IDs with NPPES primary taxonomy	314	278	611	-11.46	119.78	30% (+/-)	Yes	No
% individual or group of individuals	3.2	3.2	2.8	1.65	-14.06	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	1.0	1.1	0.0	12.95	-100.00	30% (+/-)	Yes	Yes
% behavioral health and social service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% chiropractic providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% dental providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% dietary and nutritional service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% emergency medical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% eye and vision service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing service providers	0.3	0.4	0.5	12.95	36.50	30% (+/-)	Yes	Yes
% nursing service-related providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% other service providers	0.0	0.4	0.0	Div by 0	-100.00	30% (+/-)	N/A	Yes
% pharmacy service providers	1.6	1.4	2.0	-9.64	36.50	30% (+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	0.3	0.0	0.3	-100.00	Div by 0	30% (+/-)	Yes	N/A
% podiatric medicine and surgery service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% speech, language, and hearing service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% student health care	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% group of individuals with multi- or single specialty	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nonindividuals	96.8	96.8	97.2	-0.05	0.47	30% (+/-)	Yes	Yes
% agencies	3.2	2.9	1.0	-9.64	-65.88	30% (+/-)	Yes	Yes
% ambulatory health care facilities	1.6	1.4	0.5	-9.64	-65.88	30% (+/-)	Yes	Yes
% hospital units	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% hospitals	1.9	1.1	1.3	-43.53	21.33	30% (+/-)	Yes	Yes
% laboratories	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% managed care organizations	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing and custodial care facilities	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% residential treatment facilities	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% respite care facility	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% suppliers	90.1	91.4	94.4	1.38	3.36	30% (+/-)	Yes	Yes
% transportation services	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs with Entity Type = Individual								
Number of provider IDs with entity type = individual	1	0	1	-100.00	Div by 0	30% (+/-)	Yes	N/A
% a sole proprietorship	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% not a sole proprietorship	100.0	0.0	100.0	-100.00	Div by 0	30% (+/-)	No	N/A
% not answered	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs with Entity Type = Organization								
Number of provider IDs with entity type = organization	316	281	618	-11.08	119.93	30% (+/-)	Yes	No
% organization is a subpart	17.7	20.6	18.1	16.47	-12.20	30% (+/-)	Yes	Yes
% organization is not a subpart	71.2	72.6	71.8	1.96	-1.04	30% (+/-)	Yes	Yes
% not answered	11.1	6.8	10.0	-38.95	48.37	N/A	N/A	N/A

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

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2009-2011 MAX RX Prescribing Provider Characteristics Validation Table
State: SD
Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range[a]	Cross Year 2010-2011 Within Range[b]
RX Providers								
Number of provider IDs	4,737	5,024	5,260	6.06	4.70	30% (+/-)	Yes	Yes
% billing provider on RX claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% prescribing provider on RX claim	100.0	100.0	100.0	0.00	0.00	N/A	N/A	N/A
% NPI billing provider on RX claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% also a provider on IP claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% also a provider on LT claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% also a provider on OT claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% provider IDs with NPI			0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% provider IDs linked to NPPES	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of RX claims	183.5	184.6	185.0	0.57	0.25	30% (+/-)	Yes	Yes
average number of beneficiaries with RX claims	37.2	36.5	35.9	-1.70	-1.70	30% (+/-)	Yes	Yes
Provider IDs with NPI								
Number of provider IDs with NPI	0	0	1	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% NPI source = MSIS	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% NPI source = NPPES	0.0	0.0	100.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% NPI source = state cross-reference file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs Linked to NPPES								
Number of provider IDs linked to NPPES	0	0	1	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% linked via NPI	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% linked via Medicaid legacy provider ID	0.0	0.0	100.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% linked via Medicare UPIN	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with name prefix	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with first name	0.0	0.0	100.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with middle name	0.0	0.0	100.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with last name	0.0	0.0	100.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with name suffix	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% male	0.0	0.0	100.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% female	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with credential	0.0	0.0	100.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with business name	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with address line 1	0.0	0.0	100.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with city	0.0	0.0	100.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with state	0.0	0.0	100.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% state = RX state code	0.0	0.0	100.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with zip code	0.0	0.0	100.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with primary taxonomy	0.0	0.0	100.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with provider entity type = individual	0.0	0.0	100.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with provider entity type = organization	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
Provider IDs with or without NPI but linked to state provider file								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A

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

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

2009-2011 MAX RX Prescribing Provider Characteristics Validation Table
State: SD
Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range[a]	Cross Year 2010-2011 Within Range[b]
Provider IDs with NPPES Primary Taxonomy								
Number of provider IDs with NPPES primary taxonomy	0	0	1	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% individual or group of individuals	0.0	0.0	100.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% allopathic and osteopathic physicians	0.0	0.0	100.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% behavioral health and social service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% chiropractic providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% dental providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% dietary and nutritional service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% emergency medical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% eye and vision service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing service-related providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% other service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% pharmacy service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% physician assistants and advanced practice nursing providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% podiatric medicine and surgery service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% speech, language, and hearing service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% student health care	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% group of individuals with multi- or single specialty	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nonindividuals	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% agencies	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% ambulatory health care facilities	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% hospital units	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% hospitals	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% laboratories	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% managed care organizations	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing and custodial care facilities	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% residential treatment facilities	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% respite care facility	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% suppliers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% transportation services	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs with Entity Type = Individual								
Number of provider IDs with entity type = individual	0	0	1	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% a sole proprietorship	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% not a sole proprietorship	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% not answered	0.0	0.0	100.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs with Entity Type = Organization								
Number of provider IDs with entity type = organization	0	0	0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% organization is a subpart	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% organization is not a subpart	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% not answered	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A

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

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

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

2009-2011 MAX All Provider Characteristics Validation Table
State: SD
Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range[a]	Cross Year 2010-2011 Within Range[b]
All Providers								
Number of provider IDs	21,205	21,962	24,841	3.57	13.11	30%(+/-)	Yes	Yes
% billing provider on IP claim	0.8	0.8	0.7	-2.37	-12.08	N/A	N/A	N/A
% NPI billing provider on IP claim	0.8	0.8	0.7	-1.80	-12.58	N/A	N/A	N/A
% billing provider on LT claim	0.8	0.8	0.6	-4.01	-15.77	N/A	N/A	N/A
% NPI billing provider on LT claim	0.8	0.7	0.6	-7.59	-14.99	N/A	N/A	N/A
% billing provider on OT claim	39.2	38.5	37.9	-1.59	-1.54	N/A	N/A	N/A
% servicing provider on OT claim	38.9	31.0	37.1	-20.39	19.57	N/A	N/A	N/A
% NPI servicing provider on OT claim	34.1	34.4	36.7	0.65	6.82	N/A	N/A	N/A
% billing provider on RX claim	1.6	1.6	1.4	-4.28	-11.08	N/A	N/A	N/A
% prescribing provider on RX claim	22.3	22.9	21.2	2.40	-7.44	N/A	N/A	N/A
% NPI billing provider on RX claim	0.4	0.3	1.2	-23.71	318.57	N/A	N/A	N/A
% billing provider	42.4	41.6	40.7	-1.76	-2.34	N/A	N/A	N/A
% NPI billing provider	1.9	1.8	2.5	-7.19	39.41	N/A	N/A	N/A
% servicing provider	38.9	31.0	37.1	-20.39	19.57	N/A	N/A	N/A
% NPI servicing provider	34.1	34.4	36.7	0.65	6.82	N/A	N/A	N/A
% prescribing provider	22.3	22.9	21.2	2.40	-7.44	N/A	N/A	N/A
% provider IDs with NPI	60.3	58.7	65.3	-2.71	11.20	30%(+/-)	Yes	Yes
% provider IDs linked to NPPES	59.9	58.5	63.6	-2.45	8.72	30%(+/-)	Yes	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of claims	413.2	375.8	340.4	-9.06	-9.42	30%(+/-)	Yes	Yes
average number of beneficiaries with claims	85.5	84.6	74.9	-1.00	-11.53	30%(+/-)	Yes	Yes
Provider IDs with NPI								
Number of provider IDs with NPI	12,795	12,893	16,217	0.77	25.78	30%(+/-)	Yes	Yes
% NPI source = MSIS	86.6	87.8	92.4	1.33	5.25	30%(+/-)	Yes	Yes
% NPI source = NPPES	13.4	12.2	7.6	-8.58	-37.62	30%(+/-)	Yes	No
% NPI source = state cross-reference file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs Linked to NPPES								
Number of provider IDs linked to NPPES	12,712	12,843	15,793	1.03	22.97	30%(+/-)	Yes	Yes
% linked via NPI	86.5	87.7	92.2	1.37	5.07	30%(+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	13.5	12.3	7.8	-8.77	-36.25	30%(+/-)	Yes	No
% linked via Medicare UPIN	0.0	0.0	0.0	-50.51	62.64	30%(+/-)	Yes	Yes
% with name prefix	18.4	19.5	20.2	5.91	3.43	30%(+/-)	Yes	Yes
% with first name	60.6	61.8	64.5	1.97	4.26	30%(+/-)	Yes	Yes
% with middle name	50.0	51.1	52.1	2.17	2.09	30%(+/-)	Yes	Yes
% with last name	60.6	61.8	64.5	1.97	4.26	30%(+/-)	Yes	Yes
% with name suffix	0.9	1.0	0.9	9.98	-15.55	30%(+/-)	Yes	Yes
% male	38.7	39.2	39.9	1.25	1.65	30%(+/-)	Yes	Yes
% female	21.9	22.6	24.6	3.25	8.80	30%(+/-)	Yes	Yes
% with credential	58.4	59.8	62.4	2.47	4.31	30%(+/-)	Yes	Yes
% with business name	39.4	38.0	35.4	-3.57	-6.74	30%(+/-)	Yes	Yes
% with address line 1	100.0	99.8	99.9	-0.21	0.08	30%(+/-)	Yes	Yes
% with city	100.0	99.8	99.9	-0.21	0.08	30%(+/-)	Yes	Yes
% with state	100.0	99.8	99.9	-0.21	0.08	30%(+/-)	Yes	Yes
% state = claim file state code	68.4	67.1	59.2	-2.01	-11.80	30%(+/-)	Yes	Yes
% with zip code	100.0	99.8	99.9	-0.21	0.08	30%(+/-)	Yes	Yes
% with primary taxonomy	99.0	98.3	98.5	-0.66	0.15	30%(+/-)	Yes	Yes

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

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2009-2011 MAX All Provider Characteristics Validation Table
State: SD
Produced: 04/03/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range[a]	Cross Year 2010-2011 Within Range[b]
% with provider entity type = individual	60.6	61.8	64.5	1.97	4.26	30%(+/-)	Yes	Yes
% with provider entity type = organization	39.4	38.0	35.4	-3.57	-6.74	30%(+/-)	Yes	Yes
Provider IDs with or without NPI but linked to state provider file								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs with NPPES Primary Taxonomy								
Number of provider IDs with NPPES primary taxonomy	12,618	12,631	15,556	0.10	23.16	30%(+/-)	Yes	Yes
% individual or group of individuals	68.8	71.6	73.1	4.07	2.12	30%(+/-)	Yes	Yes
% allopathic and osteopathic physicians	40.5	40.4	43.4	-0.43	7.54	30%(+/-)	Yes	Yes
% behavioral health and social service providers	4.0	4.1	3.7	2.87	-8.79	30%(+/-)	Yes	Yes
% chiropractic providers	4.1	4.1	3.4	-1.64	-15.32	30%(+/-)	Yes	Yes
% dental providers	0.5	0.4	0.3	-18.73	-13.73	30%(+/-)	Yes	Yes
% dietary and nutritional service providers	0.1	0.1	0.1	-0.10	-26.92	30%(+/-)	Yes	Yes
% emergency medical service providers	0.2	0.1	0.1	-35.07	-0.07	30%(+/-)	Yes	Yes
% eye and vision service providers	3.2	3.0	2.6	-5.33	-15.17	30%(+/-)	Yes	Yes
% nursing service providers	0.2	0.1	0.1	-15.88	6.57	30%(+/-)	Yes	Yes
% nursing service-related providers	0.0	0.1	0.0	39.86	-18.80	30%(+/-)	Yes	Yes
% other service providers	1.1	1.1	1.0	-2.27	-10.38	30%(+/-)	Yes	Yes
% pharmacy service providers	0.1	0.1	0.1	85.52	-0.07	30%(+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	10.7	13.3	13.8	23.49	4.08	30%(+/-)	Yes	Yes
% podiatric medicine and surgery service providers	0.6	0.6	0.5	1.13	-18.80	30%(+/-)	Yes	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	2.2	2.8	2.4	27.34	-12.27	30%(+/-)	Yes	Yes
% speech, language, and hearing service providers	1.0	1.3	1.2	29.64	-11.64	30%(+/-)	Yes	Yes
% student health care	0.0	0.1	0.3	174.72	224.79	30%(+/-)	Yes	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	-0.10	-35.04	30%(+/-)	Yes	Yes
% group of individuals with multi- or single specialty	0.3	0.0	0.0	-100.00	Div by 0	30%(+/-)	Yes	N/A
% nonindividuals	31.2	28.4	26.9	-8.98	-5.36	30%(+/-)	Yes	Yes
% agencies	4.5	3.8	3.3	-16.90	-11.11	30%(+/-)	Yes	Yes
% ambulatory health care facilities	4.2	3.9	4.1	-8.19	5.49	30%(+/-)	Yes	Yes
% hospital units	0.7	0.5	0.4	-20.08	-31.94	30%(+/-)	Yes	Yes
% hospitals	7.5	5.6	5.6	-25.29	-0.63	30%(+/-)	Yes	Yes
% laboratories	0.6	0.7	0.7	9.64	-7.07	30%(+/-)	Yes	Yes
% managed care organizations	0.0	0.0	0.0	-25.08	8.26	30%(+/-)	Yes	Yes
% nursing and custodial care facilities	3.5	3.8	3.1	8.52	-19.31	30%(+/-)	Yes	Yes
% residential treatment facilities	0.3	0.4	0.3	24.87	-36.52	30%(+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	-33.40	62.39	30%(+/-)	Yes	Yes
% suppliers	7.1	7.0	7.4	-1.32	4.94	30%(+/-)	Yes	Yes
% transportation services	2.6	2.6	2.1	-0.10	-20.02	30%(+/-)	Yes	Yes
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs with Entity Type = Individual								
Number of provider IDs with entity type = individual	7,707	7,940	10,180	3.02	28.21	30%(+/-)	Yes	Yes
% a sole proprietorship	10.0	10.6	10.1	5.87	-4.40	30%(+/-)	Yes	Yes
% not a sole proprietorship	77.7	82.2	83.6	5.74	1.79	30%(+/-)	Yes	Yes
% not answered	12.3	7.2	6.2	-41.06	-13.87	N/A	N/A	N/A
Provider IDs with Entity Type = Organization								
Number of provider IDs with entity type = organization	5,005	4,876	5,592	-2.58	14.68	30%(+/-)	Yes	Yes
% organization is a subpart	10.4	11.0	11.3	5.61	2.84	30%(+/-)	Yes	Yes
% organization is not a subpart	66.8	70.2	70.9	4.98	1.04	30%(+/-)	Yes	Yes
% not answered	22.8	18.9	17.8	-17.16	-5.51	N/A	N/A	N/A

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