Medicaid Analytic Extract Provider Characteristics (MAXPC)

State-Specific Validation Tables, 2010

South Dakota

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

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

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[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: SD
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	356	361	1.40	30% (+/-)	Yes
% billing provider on IP claim	50.6	50.4	-0.29	N/A	N/A
% NPI billing provider on IP claim	49.4	49.6	0.30	N/A	N/A
% also a provider on LT claim	1.7	0.6	-67.12	N/A	N/A
% also a provider on OT claim	38.5	38.2	-0.67	N/A	N/A
% also a provider on RX claim	0.3	0.0	-100.00	N/A	N/A
% provider IDs with NPI	100.0	100.0	0.00	30% (+/-)	Yes
% provider IDs linked to NPPES	100.0	100.0	0.00	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of IP claims	135.9	136.2	0.22	30% (+/-)	Yes
average number of beneficiaries with IP claims	116.2	116.6	0.35	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	356	361	1.40	30% (+/-)	Yes
% NPI source = MSIS	99.7	100.0	0.28	30% (+/-)	Yes
% NPI source = NPPES	0.3	0.0	-100.00	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	356	361	1.40	30% (+/-)	Yes
% linked via NPI	99.7	100.0	0.28	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.3	0.0	-100.00	30% (+/-)	Yes
% 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 = IP state code	42.1	40.4	-4.02	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	100.0	99.4	-0.55	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	356	359	0.84	30% (+/-)	Yes
% individual or group of individuals	1.1	0.6	-50.44	30% (+/-)	Yes
% allopathic and osteopathic physicians	1.1	0.6	-50.44	30% (+/-)	Yes
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	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 IP Billing Provider Characteristics Validation Table
State: SD
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	98.9	99.4	0.57	30% (+/-)	Yes
% agencies	0.0	0.6	Div by 0	30% (+/-)	N/A
% ambulatory health care facilities	0.8	1.1	32.15	30% (+/-)	Yes
% hospital units	8.1	8.6	6.00	30% (+/-)	Yes
% hospitals	88.2	88.6	0.43	30% (+/-)	Yes
% laboratories	0.6	0.0	-100.00	30% (+/-)	Yes
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.8	0.6	-33.93	30% (+/-)	Yes
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.0	0.0	Div by 0	30% (+/-)	N/A
% transportation services	0.3	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	356	361	1.40	30% (+/-)	Yes
% organization is a subpart	9.0	8.9	-1.39	30% (+/-)	Yes
% organization is not a subpart	79.2	82.8	4.56	30% (+/-)	Yes
% not answered	11.8	8.3	-29.56	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: SD
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	333	325	-2.40	30% (+/-)	Yes
% billing provider on LT claim	51.1	52.0	1.86	N/A	N/A
% NPI billing provider on LT claim	48.9	48.0	-1.94	N/A	N/A
% also a provider on IP claim	1.8	0.6	-65.87	N/A	N/A
% also a provider on OT claim	9.9	8.3	-16.17	N/A	N/A
% also a provider on RX claim	0.0	0.0	Div by 0	N/A	N/A
% provider IDs with NPI	99.4	100.0	0.60	30% (+/-)	Yes
% provider IDs linked to NPPES	98.8	100.0	1.22	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	343.7	345.2	0.44	30% (+/-)	Yes
average number of beneficiaries with LT claims	42.4	42.9	1.29	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	331	325	-1.81	30% (+/-)	Yes
% NPI source = MSIS	99.4	100.0	0.61	30% (+/-)	Yes
% NPI source = NPPES	0.6	0.0	-100.00	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	329	325	-1.22	30% (+/-)	Yes
% linked via NPI	99.4	100.0	0.61	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.6	0.0	-100.00	30% (+/-)	Yes
% 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	99.4	-0.61	30% (+/-)	Yes
% with address line 1	100.0	99.4	-0.61	30% (+/-)	Yes
% with city	100.0	99.4	-0.61	30% (+/-)	Yes
% with state	100.0	99.4	-0.61	30% (+/-)	Yes
% state = LT state code	92.7	95.7	3.22	30% (+/-)	Yes
% with zip code	100.0	99.4	-0.61	30% (+/-)	Yes
% with primary taxonomy	98.2	95.4	-2.84	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	99.4	-0.61	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	325	310	-4.62	30% (+/-)	Yes
% individual or group of individuals	1.2	0.6	-47.60	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.0	0.0	Div by 0	30% (+/-)	N/A
% behavioral health and social service providers	0.9	0.0	-100.00	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 LT Billing Provider Characteristics Validation Table
State: SD
Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.3	0.6	109.42	30% (+/-)	Yes
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	98.8	99.4	0.59	30% (+/-)	Yes
% agencies	2.2	1.0	-55.06	30% (+/-)	Yes
% ambulatory health care facilities	11.7	0.0	-100.00	30% (+/-)	No
% hospital units	14.5	11.6	-19.70	30% (+/-)	Yes
% hospitals	9.8	11.3	14.67	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	59.7	74.2	24.29	30% (+/-)	Yes
% residential treatment facilities	0.9	1.3	39.76	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	329	323	-1.82	30% (+/-)	Yes
% organization is a subpart	23.1	25.4	9.90	30% (+/-)	Yes
% organization is not a subpart	43.2	43.7	1.14	30% (+/-)	Yes
% not answered	33.7	31.0	-8.24	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: SD
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	15,492	14,350	-7.37	30% (+/-)	Yes
% billing provider on OT claim	53.2	47.2	-11.26	N/A	N/A
% servicing provider on OT claim	53.3	47.4	-10.99	N/A	N/A
% NPI servicing provider on OT claim	46.7	52.6	12.54	N/A	N/A
% also a provider on IP claim	0.9	1.0	8.82	N/A	N/A
% also a provider on LT claim	0.2	0.2	-11.74	N/A	N/A
% also a provider on RX claim	0.2	0.1	-44.50	N/A	N/A
% provider IDs with NPI	77.3	83.0	7.34	30% (+/-)	Yes
% provider IDs linked to NPPES	76.8	82.6	7.59	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	356.7	374.8	5.08	30% (+/-)	Yes
average number of beneficiaries with OT claims	86.4	87.3	1.00	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	11,975	11,906	-0.58	30% (+/-)	Yes
% NPI source = MSIS	87.1	89.7	3.04	30% (+/-)	Yes
% NPI source = NPPES	12.9	10.3	-20.45	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	11,896	11,856	-0.34	30% (+/-)	Yes
% linked via NPI	87.0	89.7	3.09	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	13.0	10.3	-20.60	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	-52.94	30% (+/-)	Yes
% with name prefix	19.6	21.0	7.53	30% (+/-)	Yes
% with first name	64.7	66.6	3.01	30% (+/-)	Yes
% with middle name	53.3	55.0	3.22	30% (+/-)	Yes
% with last name	64.7	66.6	3.01	30% (+/-)	Yes
% with name suffix	1.0	1.1	10.57	30% (+/-)	Yes
% male	41.3	42.3	2.34	30% (+/-)	Yes
% female	23.4	24.3	4.20	30% (+/-)	Yes
% with credential	62.3	64.5	3.51	30% (+/-)	Yes
% with business name	35.3	33.2	-6.06	30% (+/-)	Yes
% with address line 1	100.0	99.8	-0.19	30% (+/-)	Yes
% with city	100.0	99.8	-0.19	30% (+/-)	Yes
% with state	100.0	99.8	-0.19	30% (+/-)	Yes
% state = OT state code	68.2	66.7	-2.31	30% (+/-)	Yes
% with zip code	100.0	99.8	-0.19	30% (+/-)	Yes
% with primary taxonomy	99.0	98.4	-0.65	30% (+/-)	Yes
% with provider entity type = individual	64.7	66.6	3.01	30% (+/-)	Yes
% with provider entity type = organization	35.3	33.2	-6.06	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	11,808	11,661	-1.24	30% (+/-)	Yes
% individual or group of individuals	73.3	77.0	5.06	30% (+/-)	Yes
% allopathic and osteopathic physicians	43.2	43.4	0.59	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 Servicing Provider Characteristics Validation Table
State: SD
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	4.2	4.4	4.69	30% (+/-)	Yes
% chiropractic providers	4.4	4.4	-0.29	30% (+/-)	Yes
% dental providers	0.5	0.4	-19.40	30% (+/-)	Yes
% dietary and nutritional service providers	0.1	0.1	-29.41	30% (+/-)	Yes
% emergency medical service providers	0.2	0.1	-34.32	30% (+/-)	Yes
% eye and vision service providers	3.4	3.3	-4.03	30% (+/-)	Yes
% nursing service providers	0.2	0.1	-15.13	30% (+/-)	Yes
% nursing service-related providers	0.0	0.1	50.00	30% (+/-)	Yes
% other service providers	1.2	1.1	-2.40	30% (+/-)	Yes
% pharmacy service providers	0.0	0.1	352.94	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	11.5	14.2	23.83	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.7	0.7	2.48	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	2.3	3.0	29.07	30% (+/-)	Yes
% speech, language, and hearing service providers	1.1	1.5	31.47	30% (+/-)	Yes
% student health care	0.0	0.1	176.47	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	2.38	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.3	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	26.7	23.0	-13.89	30% (+/-)	Yes
% agencies	4.8	3.9	-17.46	30% (+/-)	Yes
% ambulatory health care facilities	4.2	3.6	-14.00	30% (+/-)	Yes
% hospital units	0.1	0.0	-84.55	30% (+/-)	Yes
% hospitals	6.2	3.6	-41.64	30% (+/-)	Yes
% laboratories	0.7	0.8	12.54	30% (+/-)	Yes
% managed care organizations	0.0	0.0	-23.53	30% (+/-)	Yes
% nursing and custodial care facilities	2.3	2.2	-1.41	30% (+/-)	Yes
% residential treatment facilities	0.3	0.4	28.53	30% (+/-)	Yes
% respite care facility	0.0	0.0	-32.00	30% (+/-)	Yes
% suppliers	5.4	5.5	3.51	30% (+/-)	Yes
% transportation services	2.8	2.9	1.28	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	7,692	7,897	2.67	30% (+/-)	Yes
% a sole proprietorship	10.0	10.7	6.12	30% (+/-)	Yes
% not a sole proprietorship	77.7	82.1	5.67	30% (+/-)	Yes
% not answered	12.3	7.3	-40.83	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	4,204	3,936	-6.37	30% (+/-)	Yes
% organization is a subpart	9.0	9.1	1.14	30% (+/-)	Yes
% organization is not a subpart	67.7	71.3	5.34	30% (+/-)	Yes
% not answered	23.4	19.7	-15.90	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: SD
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	8,303	8,463	1.93	30% (+/-)	Yes
% billing provider on OT claim	100.0	100.0	0.00	N/A	N/A
% servicing provider on OT claim	99.3	80.1	-19.35	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	0.0	0.0	Div by 0	N/A	N/A
% also a provider on LT claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on RX claim	0.1	0.2	6.21	N/A	N/A
% provider IDs with NPI	57.1	53.7	-6.07	30% (+/-)	Yes
% provider IDs linked to NPPES	57.1	53.7	-5.97	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	535.0	438.8	-17.97	30% (+/-)	Yes
average number of beneficiaries with OT claims	102.3	102.3	-0.06	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	4,745	4,543	-4.26	30% (+/-)	Yes
% NPI source = MSIS	67.0	68.5	2.15	30% (+/-)	Yes
% NPI source = NPPES	33.0	31.5	-4.36	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	4,738	4,541	-4.16	30% (+/-)	Yes
% linked via NPI	67.0	68.4	2.20	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	33.0	31.5	-4.41	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	-47.62	30% (+/-)	Yes
% with name prefix	17.6	19.4	10.10	30% (+/-)	Yes
% with first name	57.5	60.1	4.41	30% (+/-)	Yes
% with middle name	48.5	51.2	5.57	30% (+/-)	Yes
% with last name	57.5	60.1	4.41	30% (+/-)	Yes
% with name suffix	0.7	0.9	22.19	30% (+/-)	Yes
% male	37.0	38.3	3.38	30% (+/-)	Yes
% female	20.5	21.8	6.27	30% (+/-)	Yes
% with credential	55.7	58.6	5.17	30% (+/-)	Yes
% with business name	42.5	39.9	-6.14	30% (+/-)	Yes
% with address line 1	100.0	99.9	-0.07	30% (+/-)	Yes
% with city	100.0	99.9	-0.07	30% (+/-)	Yes
% with state	100.0	99.9	-0.07	30% (+/-)	Yes
% state = OT state code	73.8	73.2	-0.91	30% (+/-)	Yes
% with zip code	100.0	99.9	-0.07	30% (+/-)	Yes
% with primary taxonomy	99.2	98.2	-0.97	30% (+/-)	Yes
% with provider entity type = individual	57.5	60.1	4.41	30% (+/-)	Yes
% with provider entity type = organization	42.5	39.9	-6.14	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	4,704	4,461	-5.17	30% (+/-)	Yes
% individual or group of individuals	66.3	70.9	6.97	30% (+/-)	Yes
% allopathic and osteopathic physicians	35.2	37.3	5.83	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: SD
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	4.5	4.8	6.93	30% (+/-)	Yes
% chiropractic providers	4.2	4.1	-1.01	30% (+/-)	Yes
% dental providers	0.7	0.6	-15.02	30% (+/-)	Yes
% dietary and nutritional service providers	0.1	0.1	-15.09	30% (+/-)	Yes
% emergency medical service providers	0.2	0.1	-37.09	30% (+/-)	Yes
% eye and vision service providers	3.2	2.9	-10.03	30% (+/-)	Yes
% nursing service providers	0.1	0.1	-24.83	30% (+/-)	Yes
% nursing service-related providers	0.0	0.1	109.30	30% (+/-)	Yes
% other service providers	1.2	1.2	-5.43	30% (+/-)	Yes
% pharmacy service providers	0.0	0.1	433.33	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	12.0	14.3	18.91	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.7	0.7	-4.41	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	2.2	3.1	37.59	30% (+/-)	Yes
% speech, language, and hearing service providers	1.4	1.5	5.39	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	4.65	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.4	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	33.7	29.1	-13.69	30% (+/-)	Yes
% agencies	6.0	5.7	-4.32	30% (+/-)	Yes
% ambulatory health care facilities	4.8	4.8	1.23	30% (+/-)	Yes
% hospital units	0.2	0.0	-89.67	30% (+/-)	Yes
% hospitals	7.9	2.7	-65.80	30% (+/-)	Yes
% laboratories	0.8	0.9	11.05	30% (+/-)	Yes
% managed care organizations	0.0	0.0	-48.84	30% (+/-)	Yes
% nursing and custodial care facilities	3.1	3.0	-3.22	30% (+/-)	Yes
% residential treatment facilities	0.5	0.6	29.27	30% (+/-)	Yes
% respite care facility	0.0	0.0	-48.84	30% (+/-)	Yes
% suppliers	6.7	7.5	12.19	30% (+/-)	Yes
% transportation services	3.8	3.9	1.34	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	2,726	2,728	0.07	30% (+/-)	Yes
% a sole proprietorship	10.5	11.4	8.28	30% (+/-)	Yes
% not a sole proprietorship	81.6	83.3	2.04	30% (+/-)	Yes
% not answered	7.9	5.3	-32.29	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	2,012	1,810	-10.04	30% (+/-)	Yes
% organization is a subpart	9.3	9.7	3.48	30% (+/-)	Yes
% organization is not a subpart	65.7	69.0	4.94	30% (+/-)	Yes
% not answered	25.0	21.4	-14.30	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: SD
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	428	408	-4.67	30% (+/-)	Yes
% billing provider on RX claim	81.1	84.3	4.00	N/A	N/A
% prescribing provider on RX claim	0.0	0.0	Div by 0	N/A	N/A
% NPI billing provider on RX claim	18.9	15.7	-17.11	N/A	N/A
% also a provider on IP claim	0.2	0.0	-100.00	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	7.2	7.1	-1.86	N/A	N/A
% provider IDs with NPI	74.5	69.4	-6.94	30% (+/-)	Yes
% provider IDs linked to NPPES	74.1	69.4	-6.35	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	2,052.0	2,293.0	11.75	30% (+/-)	Yes
average number of beneficiaries with RX claims	261.3	282.9	8.27	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	319	283	-11.29	30% (+/-)	Yes
% NPI source = MSIS	52.4	45.6	-12.93	30% (+/-)	Yes
% NPI source = NPPES	47.6	54.4	14.20	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	317	283	-10.73	30% (+/-)	Yes
% linked via NPI	52.1	45.6	-12.42	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	48.0	54.4	13.49	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.3	0.0	-100.00	30% (+/-)	Yes
% with first name	0.3	0.0	-100.00	30% (+/-)	Yes
% with middle name	0.3	0.0	-100.00	30% (+/-)	Yes
% with last name	0.3	0.0	-100.00	30% (+/-)	Yes
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.0	0.0	Div by 0	30% (+/-)	N/A
% female	0.3	0.0	-100.00	30% (+/-)	Yes
% with credential	0.3	0.0	-100.00	30% (+/-)	Yes
% with business name	99.7	99.3	-0.39	30% (+/-)	Yes
% with address line 1	100.0	99.3	-0.71	30% (+/-)	Yes
% with city	100.0	99.3	-0.71	30% (+/-)	Yes
% with state	100.0	99.3	-0.71	30% (+/-)	Yes
% state = RX state code	73.5	74.9	1.92	30% (+/-)	Yes
% with zip code	100.0	99.3	-0.71	30% (+/-)	Yes
% with primary taxonomy	99.1	98.2	-0.83	30% (+/-)	Yes
% with provider entity type = individual	0.3	0.0	-100.00	30% (+/-)	Yes
% with provider entity type = organization	99.7	99.3	-0.39	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	314	278	-11.46	30% (+/-)	Yes
% individual or group of individuals	3.2	3.2	1.63	30% (+/-)	Yes
% allopathic and osteopathic physicians	1.0	1.1	12.98	30% (+/-)	Yes

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

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2009-2010 MAX RX Billing Provider Characteristics Validation Table
State: SD
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	0.3	0.4	13.21	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.4	Div by 0	30% (+/-)	N/A
% pharmacy service providers	1.6	1.4	-9.61	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	0.3	0.0	-100.00	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	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	96.8	96.8	-0.05	30% (+/-)	Yes
% agencies	3.2	2.9	-9.64	30% (+/-)	Yes
% ambulatory health care facilities	1.6	1.4	-9.61	30% (+/-)	Yes
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	1.9	1.1	-43.54	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	90.1	91.4	1.38	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	1	0	-100.00	30% (+/-)	Yes
% a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not a sole proprietorship	100.0	0.0	-100.00	30% (+/-)	No
% 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	316	281	-11.08	30% (+/-)	Yes
% organization is a subpart	17.7	20.6	16.47	30% (+/-)	Yes
% organization is not a subpart	71.2	72.6	1.96	30% (+/-)	Yes
% not answered	11.1	6.8	-38.95	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: SD
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	4,737	5,024	6.06	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	0.0	0.0	Div by 0	N/A	N/A
% also a provider on IP claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on LT claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on OT claim	0.0	0.0	Div by 0	N/A	N/A
% provider IDs with NPI			Div by 0	30% (+/-)	N/A
% provider IDs linked to NPPES	0.0	0.0	Div by 0	30% (+/-)	N/A
% 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	183.5	184.6	0.57	30% (+/-)	Yes
average number of beneficiaries with RX claims	37.2	36.5	-1.70	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	0	0	Div by 0	30% (+/-)	N/A
% NPI source = MSIS	0.0	0.0	Div by 0	30% (+/-)	N/A
% 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	0	0	Div by 0	30% (+/-)	N/A
% linked via NPI	0.0	0.0	Div by 0	30% (+/-)	N/A
% 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	0.0	0.0	Div by 0	30% (+/-)	N/A
% with address line 1	0.0	0.0	Div by 0	30% (+/-)	N/A
% with city	0.0	0.0	Div by 0	30% (+/-)	N/A
% with state	0.0	0.0	Div by 0	30% (+/-)	N/A
% state = RX state code	0.0	0.0	Div by 0	30% (+/-)	N/A
% with zip code	0.0	0.0	Div by 0	30% (+/-)	N/A
% with primary taxonomy	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = individual	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	0.0	0.0	Div by 0	30% (+/-)	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	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	0	0	Div by 0	30% (+/-)	N/A
% individual or group of individuals	0.0	0.0	Div by 0	30% (+/-)	N/A
% allopathic and osteopathic physicians	0.0	0.0	Div by 0	30% (+/-)	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.

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	0.0	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	0.0	0.0	Div by 0	30% (+/-)	N/A
% agencies	0.0	0.0	Div by 0	30% (+/-)	N/A
% ambulatory health care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	0.0	0.0	Div by 0	30% (+/-)	N/A
% 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	0.0	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	0	0	Div by 0	30% (+/-)	N/A
% organization is a subpart	0.0	0.0	Div by 0	30% (+/-)	N/A
% organization is not a subpart	0.0	0.0	Div by 0	30% (+/-)	N/A
% not answered	0.0	0.0	Div by 0	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 All Provider Characteristics Validation Table
State: SD
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	21,205	21,962	3.57	30%(+/-)	Yes
% billing provider on IP claim	0.8	0.8	-2.36	N/A	N/A
% NPI billing provider on IP claim	0.8	0.8	-1.81	N/A	N/A
% billing provider on LT claim	0.8	0.8	-3.99	N/A	N/A
% NPI billing provider on LT claim	0.8	0.7	-7.67	N/A	N/A
% billing provider on OT claim	39.2	38.5	-1.59	N/A	N/A
% servicing provider on OT claim	38.9	31.0	-20.39	N/A	N/A
% NPI servicing provider on OT claim	34.1	34.4	0.65	N/A	N/A
% billing provider on RX claim	1.6	1.6	-4.28	N/A	N/A
% prescribing provider on RX claim	22.3	22.9	2.40	N/A	N/A
% NPI billing provider on RX claim	0.4	0.3	-23.82	N/A	N/A
% billing provider	42.4	41.6	-1.76	N/A	N/A
% NPI billing provider	1.9	1.8	-7.19	N/A	N/A
% servicing provider	38.9	31.0	-20.39	N/A	N/A
% NPI servicing provider	34.1	34.4	0.65	N/A	N/A
% prescribing provider	22.3	22.9	2.40	N/A	N/A
% provider IDs with NPI	60.3	58.7	-2.71	30%(+/-)	Yes
% provider IDs linked to NPPES	59.9	58.5	-2.45	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	413.2	375.8	-9.06	30%(+/-)	Yes
average number of beneficiaries with claims	85.5	84.6	-1.00	30%(+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	12,795	12,893	0.77	30%(+/-)	Yes
% NPI source = MSIS	86.6	87.8	1.33	30%(+/-)	Yes
% NPI source = NPPES	13.4	12.2	-8.58	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	12,712	12,843	1.03	30%(+/-)	Yes
% linked via NPI	86.5	87.7	1.37	30%(+/-)	Yes
% linked via Medicaid legacy provider ID	13.5	12.3	-8.77	30%(+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	-50.00	30%(+/-)	Yes
% with name prefix	18.4	19.5	5.91	30%(+/-)	Yes
% with first name	60.6	61.8	1.97	30%(+/-)	Yes
% with middle name	50.0	51.1	2.17	30%(+/-)	Yes
% with last name	60.6	61.8	1.97	30%(+/-)	Yes
% with name suffix	0.9	1.0	10.00	30%(+/-)	Yes
% male	38.7	39.2	1.25	30%(+/-)	Yes
% female	21.9	22.6	3.25	30%(+/-)	Yes
% with credential	58.4	59.8	2.47	30%(+/-)	Yes
% with business name	39.4	38.0	-3.57	30%(+/-)	Yes
% with address line 1	100.0	99.8	-0.21	30%(+/-)	Yes
% with city	100.0	99.8	-0.21	30%(+/-)	Yes
% with state	100.0	99.8	-0.21	30%(+/-)	Yes
% state = claim file state code	68.4	67.1	-2.01	30%(+/-)	Yes
% with zip code	100.0	99.8	-0.21	30%(+/-)	Yes

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

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2009-2010 MAX All Provider Characterstics Validation Table
State: SD
Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% with primary taxonomy	99.0	98.3	-0.66	30%(+/-)	Yes
% with provider entity type = individual	60.6	61.8	1.97	30%(+/-)	Yes
% with provider entity type = organization	39.4	38.0	-3.57	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	12,618	12,631	0.10	30%(+/-)	Yes
% individual or group of individuals	68.8	71.6	4.07	30%(+/-)	Yes
% allopathic and osteopathic physicians	40.5	40.4	-0.43	30%(+/-)	Yes
% behavioral health and social service providers	4.0	4.1	2.88	30%(+/-)	Yes
% chiropractic providers	4.1	4.1	-1.65	30%(+/-)	Yes
% dental providers	0.5	0.4	-18.80	30%(+/-)	Yes
% dietary and nutritional service providers	0.1	0.1	0.00	30%(+/-)	Yes
% emergency medical service providers	0.2	0.1	-35.22	30%(+/-)	Yes
% eye and vision service providers	3.2	3.0	-5.35	30%(+/-)	Yes
% nursing service providers	0.2	0.1	-15.89	30%(+/-)	Yes
% nursing service-related providers	0.0	0.1	37.50	30%(+/-)	Yes
% other service providers	1.1	1.1	-2.29	30%(+/-)	Yes
% pharmacy service providers	0.1	0.1	87.27	30%(+/-)	Yes
% physician assistants and advanced practice nursing providers	10.7	13.3	23.48	30%(+/-)	Yes
% podiatric medicine and surgery service providers	0.6	0.6	1.09	30%(+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	2.2	2.8	27.31	30%(+/-)	Yes
% speech, language, and hearing service providers	1.0	1.3	29.67	30%(+/-)	Yes
% student health care	0.0	0.1	171.88	30%(+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	0.00	30%(+/-)	Yes
% group of individuals with multi- or single specialty	0.3	0.0	-100.00	30%(+/-)	Yes
% nonindividuals	31.2	28.4	-8.98	30%(+/-)	Yes
% agencies	4.5	3.8	-16.88	30%(+/-)	Yes
% ambulatory health care facilities	4.2	3.9	-8.17	30%(+/-)	Yes
% hospital units	0.7	0.5	-20.18	30%(+/-)	Yes
% hospitals	7.5	5.6	-25.29	30%(+/-)	Yes
% laboratories	0.7	0.7	9.69	30%(+/-)	Yes
% managed care organizations	0.0	0.0	-25.00	30%(+/-)	Yes
% nursing and custodial care facilities	3.5	3.8	8.52	30%(+/-)	Yes
% residential treatment facilities	0.3	0.4	24.64	30%(+/-)	Yes
% respite care facility	0.0	0.0	-33.33	30%(+/-)	Yes
% suppliers	7.1	7.0	-1.33	30%(+/-)	Yes
% transportation services	2.6	2.6	-0.11	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	7,707	7,940	3.02	30%(+/-)	Yes
% a sole proprietorship	10.0	10.6	5.87	30%(+/-)	Yes
% not a sole proprietorship	77.7	82.2	5.74	30%(+/-)	Yes
% not answered	12.3	7.2	-41.06	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	5,005	4,876	-2.58	30%(+/-)	Yes
% organization is a subpart	10.4	11.0	5.60	30%(+/-)	Yes
% organization is not a subpart	66.8	70.2	4.98	30%(+/-)	Yes
% not answered	22.8	18.9	-17.16	N/A	N/A

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

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