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

**State-Specific Validation Tables,
2011**

June 28, 2013

Deo Bencio
Mei-ling Mason

**MATHEMATICA
Policy Research**

This page has been left blank for double-sided copying.

Medicaid Analytic Extract Provider Characteristics (MAXPC)

State-Specific Validation Tables, 2011

June 28, 2013

Deo Bencio
Mei-ling Mason

MATHEMATICA
Policy Research

This page has been left blank for double-sided copying.

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

This page has been left blank for double-sided copying.

INTRODUCTION

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

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

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

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

---

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

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

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

- Number of IP Claims for Provider

- Number of Beneficiaries with IP Claims for Provider

- Number of LT Claims for Provider

- Number of Beneficiaries with LT Claims for Provider

- Number of OT Claims for Provider

- Number of Beneficiaries with OT Claims for Provider

- Number of RX Claims for provider

- Number of Beneficiaries with RX Claims for Provider.

2009-2011 MAX IP Billing Provider Characteristics Validation Table
State: SC
Produced: 05/20/2013

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[a]
IP Providers								
Number of provider IDs	222	242	4,147	9.01	1,613.64	30% (+/-)	Yes	No
% billing provider on IP claim	100.0	100.0	100.0	0.00	0.00	N/A	N/A	N/A
% NPI billing provider on IP claim	100.0	100.0	100.0	0.00	-0.05	N/A	N/A	N/A
% also a provider on LT claim	4.1	3.3	0.0	-18.45	-99.27	N/A	N/A	N/A
% also a provider on OT claim	69.4	66.1	94.4	-4.69	42.75	N/A	N/A	N/A
% also a provider on RX claim	5.9	6.6	87.9	12.91	1,228.96	N/A	N/A	N/A
% provider IDs with NPI	100.0	100.0	100.0	0.00	-0.05	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	99.6	100.0	99.8	0.45	-0.17	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	487.6	398.2	30.7	-18.32	-92.29	30% (+/-)	Yes	No
average number of beneficiaries with IP claims	405.8	328.1	26.2	-19.15	-92.02	30% (+/-)	Yes	No
Provider IDs with NPI								
Number of provider IDs with NPI	222	242	4,145	9.01	1,612.81	30% (+/-)	Yes	No
% NPI source = MSIS	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% NPI source = NPPES	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% NPI source = state cross-reference file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs Linked to NPPES								
Number of provider IDs linked to NPPES	221	242	4,140	9.50	1,610.74	30% (+/-)	Yes	No
% linked via NPI	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% linked via Medicare UPIN	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with name prefix	0.0	0.0	41.5	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with first name	0.0	0.0	93.9	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with middle name	0.0	0.0	79.8	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with last name	0.0	0.0	93.9	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with name suffix	0.0	0.0	8.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% male	0.0	0.0	65.5	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% female	0.0	0.0	28.3	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with credential	0.0	0.0	92.6	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with business name	100.0	100.0	6.1	0.00	-93.91	30% (+/-)	Yes	No
% with address line 1	100.0	100.0	100.0	0.00	-0.05	30% (+/-)	Yes	Yes
% with city	100.0	100.0	100.0	0.00	-0.05	30% (+/-)	Yes	Yes
% with state	100.0	100.0	100.0	0.00	-0.05	30% (+/-)	Yes	Yes
% state = IP state code	38.9	37.2	77.0	-4.43	107.12	30% (+/-)	Yes	No
% with zip code	100.0	100.0	100.0	0.00	-0.05	30% (+/-)	Yes	Yes
% with primary taxonomy	100.0	99.2	99.5	-0.83	0.30	30% (+/-)	Yes	Yes
% with provider entity type = individual	0.0	0.0	93.9	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with provider entity type = organization	100.0	100.0	6.1	0.00	-93.91	30% (+/-)	Yes	No
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: SC
Produced: 05/20/2013

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[a]
Provider IDs with NPPES Primary Taxonomy								
Number of provider IDs with NPPES primary taxonomy	222	240	4,118	8.11	1,615.83	30% (+/-)	Yes	No
% individual or group of individuals	2.7	0.4	94.1	-84.57	22,471.55	30% (+/-)	Yes	No
% allopathic and osteopathic physicians	2.7	0.4	87.6	-84.57	20,899.23	30% (+/-)	Yes	No
% 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	0.2	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	3.2	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	2.6	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% podiatric medicine and surgery service providers	0.0	0.0	0.1	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	0.4	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% group of individuals with multi- or single specialty	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nonindividuals	97.3	99.6	5.9	2.35	-94.10	30% (+/-)	Yes	No
% 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	0.1	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% hospital units	8.1	7.5	0.5	-7.50	-93.52	30% (+/-)	Yes	Yes
% hospitals	87.8	90.8	5.3	3.41	-94.20	30% (+/-)	Yes	No
% 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	0.4	0.0	Div by 0	-94.18	30% (+/-)	N/A	Yes
% residential treatment facilities	1.4	0.8	0.0	-38.34	-97.08	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	3,886	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% a sole proprietorship	0.0	0.0	10.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% not a sole proprietorship	0.0	0.0	85.7	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% not answered	0.0	0.0	4.3	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	221	242	252	9.50	4.13	30% (+/-)	Yes	Yes
% organization is a subpart	11.3	12.4	10.7	9.59	-13.57	30% (+/-)	Yes	Yes
% organization is not a subpart	74.7	76.0	76.2	1.84	0.21	30% (+/-)	Yes	Yes
% not answered	14.0	11.6	13.1	-17.52	13.18	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: SC
Produced: 05/20/2013

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[a]
LT Providers								
Number of provider IDs	285	287	291	0.70	1.39	30% (+/-)	Yes	Yes
% billing provider on LT claim	100.0	100.0	100.0	0.00	0.00	N/A	N/A	N/A
% NPI billing provider on LT claim	9.8	10.8	8.9	9.93	-17.28	N/A	N/A	N/A
% also a provider on IP claim	3.2	2.8	0.3	-11.75	-87.67	N/A	N/A	N/A
% also a provider on OT claim	2.1	1.7	5.8	-17.24	235.36	N/A	N/A	N/A
% also a provider on RX claim	0.7	1.0	0.7	48.86	-34.23	N/A	N/A	N/A
% provider IDs with NPI	79.3	80.1	80.4	1.06	0.34	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	79.3	80.1	80.1	1.06	-0.09	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	590.9	590.7	575.0	-0.05	-2.65	30% (+/-)	Yes	Yes
average number of beneficiaries with LT claims	70.8	70.4	70.4	-0.61	-0.02	30% (+/-)	Yes	Yes
Provider IDs with NPI								
Number of provider IDs with NPI	226	230	234	1.77	1.74	30% (+/-)	Yes	Yes
% NPI source = MSIS	12.4	13.5	11.5	8.79	-14.39	30% (+/-)	Yes	Yes
% NPI source = NPPES	87.6	86.5	88.5	-1.24	2.24	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	226	230	233	1.77	1.30	30% (+/-)	Yes	Yes
% linked via NPI	12.4	13.5	11.2	8.79	-17.21	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	87.6	86.5	88.8	-1.24	2.68	30% (+/-)	Yes	Yes
% linked via Medicare UPIN	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with name prefix	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with first name	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with middle name	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with last name	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with name suffix	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% male	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% female	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with credential	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with business name	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with address line 1	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with city	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with state	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% state = LT state code	98.7	99.1	99.1	0.46	0.01	30% (+/-)	Yes	Yes
% with zip code	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with primary taxonomy	99.6	100.0	100.0	0.44	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 LT Billing Provider Characteristics Validation Table
State: SC
Produced: 05/20/2013

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[a]
Provider IDs with NPPES Primary Taxonomy								
Number of provider IDs with NPPES primary taxonomy	225	230	233	2.22	1.30	30% (+/-)	Yes	Yes
% individual or group of individuals	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% allopathic and osteopathic physicians	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% behavioral health and social service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% chiropractic providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% dental providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% dietary and nutritional service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% emergency medical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% eye and vision service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing service-related providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% other service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% pharmacy service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% physician assistants and advanced practice nursing providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% podiatric medicine and surgery service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% speech, language, and hearing service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% student health care	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% group of individuals with multi- or single specialty	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nonindividuals	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% agencies	0.0	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	1.3	0.9	0.4	-34.73	-50.67	30% (+/-)	Yes	Yes
% hospitals	5.3	7.0	4.7	30.45	-32.14	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	86.7	85.7	88.0	-1.17	2.72	30% (+/-)	Yes	Yes
% residential treatment facilities	6.7	6.5	6.9	-2.17	5.29	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	226	230	233	1.77	1.30	30% (+/-)	Yes	Yes
% organization is a subpart	7.1	9.6	15.5	35.10	61.53	30% (+/-)	Yes	No
% organization is not a subpart	41.2	44.3	41.2	7.77	-7.09	30% (+/-)	Yes	Yes
% not answered	51.8	46.1	43.3	-10.98	-5.94	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: SC
Produced: 05/20/2013

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[a]
OT Providers								
Number of provider IDs	25,129	25,807	50,142	2.70	94.30	30% (+/-)	Yes	No
% billing provider on OT claim	24.2	21.3	35.1	-11.83	64.29	N/A	N/A	N/A
% servicing provider on OT claim	100.0	100.0	89.1	0.00	-10.94	N/A	N/A	N/A
% NPI servicing provider on OT claim	0.0	0.0	33.9	Div by 0	Div by 0	N/A	N/A	N/A
% also a provider on IP claim	0.2	0.0	7.6	-74.17	19,311.54	N/A	N/A	N/A
% also a provider on LT claim	0.0	0.0	0.0	50.00	132.67	N/A	N/A	N/A
% also a provider on RX claim	52.7	54.2	28.7	2.90	-46.98	N/A	N/A	N/A
% provider IDs with NPI	1.3	47.9	64.0	3,607.42	33.52	30% (+/-)	No	No
% provider IDs linked to NPPES	1.3	47.9	38.7	3,607.42	-19.24	30% (+/-)	No	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of OT claims	904.4	790.0	703.0	-12.65	-11.01	30% (+/-)	Yes	Yes
average number of beneficiaries with OT claims	146.2	130.1	111.8	-11.01	-14.10	30% (+/-)	Yes	Yes
Provider IDs with NPI								
Number of provider IDs with NPI	325	12,371	32,093	3,706.46	159.42	30% (+/-)	No	No
% NPI source = MSIS	44.9	98.4	84.5	119.06	-14.09	30% (+/-)	No	Yes
% NPI source = NPPES	55.1	1.6	15.5	-97.11	870.80	30% (+/-)	No	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	325	12,371	19,412	3,706.46	56.92	30% (+/-)	No	No
% linked via NPI	44.9	98.4	74.4	119.06	-24.35	30% (+/-)	No	Yes
% linked via Medicaid legacy provider ID	47.4	1.5	23.8	-96.83	1,481.74	30% (+/-)	No	No
% linked via Medicare UPIN	7.7	0.1	1.8	-98.84	1,879.55	30% (+/-)	Yes	Yes
% with name prefix	25.2	47.1	45.2	86.68	-4.13	30% (+/-)	No	Yes
% with first name	48.9	97.8	96.2	99.84	-1.55	30% (+/-)	No	Yes
% with middle name	40.0	83.8	82.1	109.44	-2.04	30% (+/-)	No	Yes
% with last name	48.9	97.8	96.2	99.84	-1.55	30% (+/-)	No	Yes
% with name suffix	2.8	8.8	8.3	217.91	-5.37	30% (+/-)	Yes	Yes
% male	32.3	65.2	64.8	101.84	-0.61	30% (+/-)	No	Yes
% female	16.6	32.6	31.4	95.97	-3.44	30% (+/-)	No	Yes
% with credential	45.8	95.8	94.2	109.02	-1.71	30% (+/-)	No	Yes
% with business name	51.1	1.9	3.6	-96.38	92.59	30% (+/-)	No	Yes
% with address line 1	100.0	99.6	99.8	-0.38	0.20	30% (+/-)	Yes	Yes
% with city	100.0	99.6	99.8	-0.38	0.20	30% (+/-)	Yes	Yes
% with state	100.0	99.6	99.8	-0.38	0.20	30% (+/-)	Yes	Yes
% state = OT state code	85.2	78.4	77.6	-8.00	-1.02	30% (+/-)	Yes	Yes
% with zip code	100.0	99.6	99.8	-0.38	0.20	30% (+/-)	Yes	Yes
% with primary taxonomy	98.8	99.0	99.1	0.20	0.16	30% (+/-)	Yes	Yes
% with provider entity type = individual	48.9	97.8	96.2	99.84	-1.55	30% (+/-)	No	Yes
% with provider entity type = organization	51.1	1.9	3.6	-96.38	92.59	30% (+/-)	No	Yes
Provider IDs with or without NPI but linked to state provider file								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A

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

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: SC
Produced: 05/20/2013

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[a]
Provider IDs with NPPES Primary Taxonomy								
Number of provider IDs with NPPES primary taxonomy	321	12,243	19,242	3,714.02	57.17	30% (+/-)	No	No
% individual or group of individuals	49.5	98.6	97.4	99.00	-1.18	30% (+/-)	No	Yes
% allopathic and osteopathic physicians	28.3	74.3	75.7	161.96	1.87	30% (+/-)	No	Yes
% behavioral health and social service providers	3.7	0.4	0.3	-89.94	-10.16	30% (+/-)	Yes	Yes
% chiropractic providers	3.1	0.1	0.4	-97.11	292.66	30% (+/-)	Yes	Yes
% dental providers	1.9	6.6	4.9	250.51	-24.56	30% (+/-)	Yes	Yes
% 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	0.1	Div by 0	6.06	30% (+/-)	N/A	Yes
% eye and vision service providers	2.5	2.1	2.1	-15.13	-2.94	30% (+/-)	Yes	Yes
% nursing service providers	0.0	0.1	0.1	Div by 0	-15.15	30% (+/-)	N/A	Yes
% nursing service-related providers	0.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% other service providers	5.3	3.1	2.7	-41.71	-10.94	30% (+/-)	Yes	Yes
% 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	0.9	10.7	9.6	1,048.77	-11.02	30% (+/-)	No	Yes
% podiatric medicine and surgery service providers	0.0	0.8	0.8	Div by 0	0.86	30% (+/-)	N/A	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.2	0.1	0.2	-91.49	91.21	30% (+/-)	Yes	Yes
% speech, language, and hearing service providers	1.9	0.1	0.4	-93.90	223.67	30% (+/-)	Yes	Yes
% student health care	0.0	0.2	0.2	Div by 0	26.90	30% (+/-)	N/A	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% group of individuals with multi- or single specialty	0.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nonindividuals	50.5	1.4	2.6	-97.17	81.48	30% (+/-)	No	Yes
% agencies	12.5	0.7	0.6	-94.49	-9.85	30% (+/-)	No	Yes
% ambulatory health care facilities	1.9	0.2	0.5	-91.28	202.89	30% (+/-)	Yes	Yes
% hospital units	0.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% hospitals	19.3	0.1	0.6	-99.49	509.85	30% (+/-)	No	Yes
% laboratories	0.6	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% managed care organizations	0.6	0.0	0.0	-98.72	-35.04	30% (+/-)	Yes	Yes
% nursing and custodial care facilities	3.1	0.2	0.2	-92.39	-12.29	30% (+/-)	Yes	Yes
% residential treatment facilities	0.6	0.0	0.0	-97.43	-35.04	30% (+/-)	Yes	Yes
% respite care facility	0.3	0.0	0.0	-94.87	-35.04	30% (+/-)	Yes	Yes
% suppliers	11.2	0.2	0.4	-98.18	75.78	30% (+/-)	No	Yes
% transportation services	0.0	0.0	0.3	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	159	12,095	18,684	7,506.92	54.48	30% (+/-)	No	No
% a sole proprietorship	18.2	13.5	12.1	-25.75	-10.41	30% (+/-)	Yes	Yes
% not a sole proprietorship	73.0	81.6	83.6	11.86	2.39	30% (+/-)	Yes	Yes
% not answered	8.8	4.8	4.3	-44.97	-11.18	N/A	N/A	N/A
Provider IDs with Entity Type = Organization								
Number of provider IDs with entity type = organization	166	229	692	37.95	202.18	30% (+/-)	No	No
% organization is a subpart	4.2	5.7	7.7	34.62	34.91	30% (+/-)	Yes	Yes
% organization is not a subpart	61.4	68.1	74.3	10.86	9.04	30% (+/-)	Yes	Yes
% not answered	34.3	26.2	18.1	-23.69	-31.06	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 Billing Provider Characteristics Validation Table
State: SC
Produced: 05/20/2013

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[a]
OT Providers								
Number of provider IDs	9,896	9,934	26,664	0.38	168.41	30% (+/-)	Yes	No
% 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	61.5	55.5	58.0	-9.80	4.61	N/A	N/A	N/A
% NPI servicing provider on OT claim	0.0	0.0	19.8	Div by 0	Div by 0	N/A	N/A	N/A
% also a provider on IP claim	1.5	1.6	2.3	4.91	43.36	N/A	N/A	N/A
% also a provider on LT claim	0.1	0.1	0.0	-18.03	-55.00	N/A	N/A	N/A
% also a provider on RX claim	29.4	29.2	10.6	-0.83	-63.68	N/A	N/A	N/A
% provider IDs with NPI	3.6	23.1	43.3	548.07	87.91	30% (+/-)	No	No
% provider IDs linked to NPPES	3.5	23.1	26.3	549.90	14.14	30% (+/-)	No	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of OT claims	3,668.8	3,991.7	1,544.0	8.80	-61.32	30% (+/-)	Yes	No
average number of beneficiaries with OT claims	480.2	496.9	241.7	3.49	-51.35	30% (+/-)	Yes	No
Provider IDs with NPI								
Number of provider IDs with NPI	352	2,290	11,550	550.57	404.37	30% (+/-)	No	No
% NPI source = MSIS	54.5	91.6	61.1	67.88	-33.30	30% (+/-)	No	No
% NPI source = NPPES	45.5	8.4	38.9	-81.46	361.77	30% (+/-)	No	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	351	2,290	7,016	552.42	206.38	30% (+/-)	No	No
% linked via NPI	54.4	91.6	35.9	68.28	-60.76	30% (+/-)	No	No
% linked via Medicaid legacy provider ID	39.9	7.9	60.4	-80.07	659.82	30% (+/-)	No	No
% linked via Medicare UPIN	5.7	0.5	3.7	-91.58	666.11	30% (+/-)	Yes	Yes
% with name prefix	12.3	49.0	35.8	300.29	-26.93	30% (+/-)	No	Yes
% with first name	19.9	76.2	71.2	282.09	-6.59	30% (+/-)	No	Yes
% with middle name	16.8	67.0	61.2	298.52	-8.61	30% (+/-)	No	Yes
% with last name	19.9	76.2	71.2	282.09	-6.59	30% (+/-)	No	Yes
% with name suffix	1.1	9.3	7.0	719.74	-24.96	30% (+/-)	Yes	Yes
% male	14.0	59.1	52.3	323.55	-11.60	30% (+/-)	No	Yes
% female	6.0	17.1	18.9	185.38	10.78	30% (+/-)	No	Yes
% with credential	18.5	74.1	69.7	300.39	-6.00	30% (+/-)	No	Yes
% with business name	80.1	23.3	28.7	-70.87	23.16	30% (+/-)	No	Yes
% with address line 1	100.0	99.5	99.9	-0.48	0.38	30% (+/-)	Yes	Yes
% with city	100.0	99.5	99.9	-0.48	0.38	30% (+/-)	Yes	Yes
% with state	100.0	99.5	99.9	-0.48	0.38	30% (+/-)	Yes	Yes
% state = OT state code	65.8	84.7	85.0	28.66	0.34	30% (+/-)	Yes	Yes
% with zip code	100.0	99.5	99.9	-0.48	0.38	30% (+/-)	Yes	Yes
% with primary taxonomy	98.6	98.4	98.8	-0.19	0.41	30% (+/-)	Yes	Yes
% with provider entity type = individual	19.9	76.2	71.2	282.09	-6.59	30% (+/-)	No	Yes
% with provider entity type = organization	80.1	23.3	28.7	-70.87	23.16	30% (+/-)	No	Yes
Provider IDs with or without NPI but linked to state provider file								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A

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

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 Billing Provider Characteristics Validation Table
State: SC
Produced: 05/20/2013

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[a]
Provider IDs with NPPES Primary Taxonomy								
Number of provider IDs with NPPES primary taxonomy	347	2,253	6,931	549.28	207.63	30% (+/-)	No	No
% individual or group of individuals	29.4	85.1	89.6	189.61	5.23	30% (+/-)	No	Yes
% allopathic and osteopathic physicians	13.5	45.1	68.3	233.26	51.22	30% (+/-)	No	No
% behavioral health and social service providers	2.9	0.9	0.5	-67.66	-45.82	30% (+/-)	Yes	Yes
% chiropractic providers	2.9	0.2	0.9	-93.82	386.33	30% (+/-)	Yes	Yes
% dental providers	2.3	24.1	7.1	943.69	-70.37	30% (+/-)	No	No
% dietary and nutritional service providers	0.3	0.0	0.1	-84.72	195.12	30% (+/-)	Yes	Yes
% emergency medical service providers	0.0	0.0	0.1	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% eye and vision service providers	2.3	7.4	4.6	221.56	-38.49	30% (+/-)	Yes	Yes
% 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	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% other service providers	2.9	4.3	3.4	49.38	-20.24	30% (+/-)	Yes	Yes
% 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	0.9	2.8	Div by 0	197.23	30% (+/-)	N/A	Yes
% podiatric medicine and surgery service providers	0.0	1.6	1.0	Div by 0	-35.90	30% (+/-)	N/A	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.6	0.2	0.4	-69.10	126.96	30% (+/-)	Yes	Yes
% speech, language, and hearing service providers	1.4	0.3	0.4	-78.42	34.54	30% (+/-)	Yes	Yes
% student health care	0.0	0.0	0.0	Div by 0	-100.00	30% (+/-)	N/A	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% group of individuals with multi- or single specialty	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nonindividuals	70.6	14.9	10.4	-78.94	-29.94	30% (+/-)	No	Yes
% agencies	12.1	3.8	1.8	-68.83	-52.96	30% (+/-)	No	Yes
% ambulatory health care facilities	1.2	1.4	2.5	23.16	73.74	30% (+/-)	Yes	Yes
% hospital units	0.9	0.1	0.0	-89.71	-51.37	30% (+/-)	Yes	Yes
% hospitals	42.1	7.0	3.5	-83.44	-49.27	30% (+/-)	No	Yes
% laboratories	0.3	0.0	0.1	-100.00	Div by 0	30% (+/-)	Yes	N/A
% managed care organizations	0.6	0.0	0.1	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nursing and custodial care facilities	2.9	1.3	0.5	-55.34	-63.01	30% (+/-)	Yes	Yes
% residential treatment facilities	0.9	0.1	0.1	-84.62	-56.61	30% (+/-)	Yes	Yes
% respite care facility	0.3	0.0	0.0	-84.72	-67.21	30% (+/-)	Yes	Yes
% suppliers	9.5	1.2	1.2	-87.87	2.52	30% (+/-)	Yes	Yes
% transportation services	0.0	0.0	0.7	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	70	1,745	4,994	2,392.86	186.19	30% (+/-)	No	No
% a sole proprietorship	25.7	36.2	19.2	40.62	-46.84	30% (+/-)	No	No
% not a sole proprietorship	62.9	55.6	75.5	-11.47	35.63	30% (+/-)	Yes	No
% not answered	11.4	8.2	5.3	-28.30	-35.25	N/A	N/A	N/A
Provider IDs with Entity Type = Organization								
Number of provider IDs with entity type = organization	281	534	2,015	90.04	277.34	30% (+/-)	No	No
% organization is a subpart	6.4	7.7	12.3	19.86	59.65	30% (+/-)	Yes	No
% organization is not a subpart	67.3	70.8	73.8	5.24	4.25	30% (+/-)	Yes	Yes
% not answered	26.3	21.5	13.9	-18.22	-35.25	N/A	N/A	N/A

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

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

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

2009-2011 MAX RX Billing Provider Characteristics Validation Table
State: SC
Produced: 05/20/2013

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[a]
RX Providers								
Number of provider IDs	1,362	19,952	28,149	1,364.90	41.08	30% (+/-)	No	No
% billing provider on RX claim	93.3	6.4	7.5	-93.19	18.79	N/A	N/A	N/A
% prescribing provider on RX claim	18.6	93.8	83.0	402.87	-11.49	N/A	N/A	N/A
% NPI billing provider on RX claim	6.7	93.6	92.5	1,301.66	-1.22	N/A	N/A	N/A
% also a provider on IP claim	0.0	0.0	12.9	Div by 0	64,626.99	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	56.0	65.3	52.0	16.50	-20.34	N/A	N/A	N/A
% provider IDs with NPI	10.4	93.9	94.6	800.15	0.85	30% (+/-)	No	Yes
% provider IDs linked to NPPES	10.4	93.5	94.3	796.55	0.83	30% (+/-)	No	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of RX claims	3,144.8	410.3	354.4	-86.95	-13.60	30% (+/-)	No	Yes
average number of beneficiaries with RX claims	425.5	66.4	68.9	-84.40	3.71	30% (+/-)	No	Yes
Provider IDs with NPI								
Number of provider IDs with NPI	142	18,725	26,643	13,086.62	42.29	30% (+/-)	No	No
% NPI source = MSIS	85.9	99.9	99.9	16.27	0.03	30% (+/-)	Yes	Yes
% NPI source = NPPES	14.1	0.1	0.1	-99.24	-26.34	30% (+/-)	No	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	142	18,650	26,531	13,033.80	42.26	30% (+/-)	No	No
% linked via NPI	85.9	99.9	99.9	16.27	0.03	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	12.0	0.1	0.1	-99.24	-21.30	30% (+/-)	No	Yes
% linked via Medicare UPIN	2.1	0.0	0.0	-99.24	-52.89	30% (+/-)	Yes	Yes
% with name prefix	37.3	47.9	48.1	28.46	0.25	30% (+/-)	Yes	Yes
% with first name	86.6	97.6	97.7	12.70	0.06	30% (+/-)	Yes	Yes
% with middle name	76.1	82.1	80.5	7.89	-1.94	30% (+/-)	Yes	Yes
% with last name	86.6	97.6	97.7	12.70	0.06	30% (+/-)	Yes	Yes
% with name suffix	4.9	7.4	6.6	50.53	-10.66	30% (+/-)	Yes	Yes
% male	59.9	61.8	60.1	3.23	-2.66	30% (+/-)	Yes	Yes
% female	26.8	35.8	37.5	33.90	4.76	30% (+/-)	No	Yes
% with credential	85.9	95.1	94.8	10.66	-0.32	30% (+/-)	Yes	Yes
% with business name	13.4	1.8	1.8	-86.65	2.14	30% (+/-)	No	Yes
% with address line 1	100.0	99.4	99.5	-0.59	0.10	30% (+/-)	Yes	Yes
% with city	100.0	99.4	99.5	-0.59	0.10	30% (+/-)	Yes	Yes
% with state	100.0	99.4	99.5	-0.59	0.10	30% (+/-)	Yes	Yes
% state = RX state code	90.8	62.7	53.5	-30.97	-14.62	30% (+/-)	No	Yes
% with zip code	100.0	99.4	99.5	-0.59	0.10	30% (+/-)	Yes	Yes
% with primary taxonomy	100.0	98.6	98.7	-1.37	0.07	30% (+/-)	Yes	Yes
% with provider entity type = individual	86.6	97.6	97.7	12.70	0.06	30% (+/-)	Yes	Yes
% with provider entity type = organization	13.4	1.8	1.8	-86.65	2.14	30% (+/-)	No	Yes
Provider IDs with or without NPI but linked to state provider file								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A

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

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

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

2009-2011 MAX RX Billing Provider Characteristics Validation Table
State: SC
Produced: 05/20/2013

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[a]
Provider IDs with NPPES Primary Taxonomy								
Number of provider IDs with NPPES primary taxonomy	142	18,395	26,187	12,854.23	42.36	30% (+/-)	No	No
% individual or group of individuals	52.1	99.3	99.3	90.64	-0.02	30% (+/-)	No	Yes
% allopathic and osteopathic physicians	44.4	70.7	67.6	59.45	-4.48	30% (+/-)	No	Yes
% behavioral health and social service providers	0.0	1.1	1.0	Div by 0	-11.06	30% (+/-)	N/A	Yes
% chiropractic providers	0.0	0.2	0.3	Div by 0	16.44	30% (+/-)	N/A	Yes
% dental providers	0.0	7.2	7.5	Div by 0	5.13	30% (+/-)	N/A	Yes
% dietary and nutritional service providers	0.0	0.0	0.0	Div by 0	10.54	30% (+/-)	N/A	Yes
% emergency medical service providers	0.0	0.0	0.0	Div by 0	6.57	30% (+/-)	N/A	Yes
% eye and vision service providers	0.0	1.8	1.7	Div by 0	-5.01	30% (+/-)	N/A	Yes
% nursing service providers	0.0	0.2	0.3	Div by 0	8.65	30% (+/-)	N/A	Yes
% nursing service-related providers	0.0	0.0	0.0	Div by 0	358.24	30% (+/-)	N/A	Yes
% other service providers	1.4	2.9	2.8	106.18	-4.37	30% (+/-)	Yes	Yes
% pharmacy service providers	1.4	0.2	1.4	-89.20	804.43	30% (+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	2.8	13.1	14.2	366.42	8.06	30% (+/-)	No	Yes
% podiatric medicine and surgery service providers	0.0	0.7	0.6	Div by 0	-3.95	30% (+/-)	N/A	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.4	0.3	0.5	-76.85	41.74	30% (+/-)	Yes	Yes
% speech, language, and hearing service providers	0.0	0.1	0.2	Div by 0	29.16	30% (+/-)	N/A	Yes
% student health care	0.0	0.7	1.3	Div by 0	85.88	30% (+/-)	N/A	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	Div by 0	143.01	30% (+/-)	N/A	Yes
% group of individuals with multi- or single specialty	0.7	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nonindividuals	47.9	0.7	0.7	-98.64	3.67	30% (+/-)	No	Yes
% agencies	0.0	0.0	0.0	Div by 0	43.20	30% (+/-)	N/A	Yes
% ambulatory health care facilities	0.7	0.3	0.4	-55.26	13.95	30% (+/-)	Yes	Yes
% hospital units	0.0	0.0	0.0	Div by 0	-100.00	30% (+/-)	N/A	Yes
% hospitals	19.0	0.1	0.1	-99.32	14.56	30% (+/-)	No	Yes
% laboratories	1.4	0.0	0.0	-99.64	52.75	30% (+/-)	Yes	Yes
% managed care organizations	0.0	0.0	0.0	Div by 0	-28.40	30% (+/-)	N/A	Yes
% nursing and custodial care facilities	0.0	0.0	0.0	Div by 0	-23.63	30% (+/-)	N/A	Yes
% residential treatment facilities	0.0	0.0	0.0	Div by 0	-23.63	30% (+/-)	N/A	Yes
% respite care facility	0.0	0.0	0.0	Div by 0	-23.63	30% (+/-)	N/A	Yes
% suppliers	26.8	0.1	0.1	-99.45	-22.07	30% (+/-)	No	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	123	18,207	25,917	14,702.44	42.35	30% (+/-)	No	No
% a sole proprietorship	17.9	16.1	17.2	-9.90	6.88	30% (+/-)	Yes	Yes
% not a sole proprietorship	73.2	79.0	78.0	7.92	-1.21	30% (+/-)	Yes	Yes
% not answered	8.9	4.9	4.8	-44.97	-3.17	N/A	N/A	N/A
Provider IDs with Entity Type = Organization								
Number of provider IDs with entity type = organization	19	333	484	1,652.63	45.35	30% (+/-)	No	No
% organization is a subpart	26.3	7.5	7.6	-71.47	1.82	30% (+/-)	No	Yes
% organization is not a subpart	68.4	67.9	69.8	-0.81	2.90	30% (+/-)	Yes	Yes
% not answered	5.3	24.6	22.5	367.89	-8.55	N/A	N/A	N/A

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

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

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

2009-2011 MAX RX Prescribing Provider Characteristics Validation Table
State: SC
Produced: 05/20/2013

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[a]
RX Providers								
Number of provider IDs	47,294	23,527	23,374	-50.25	-0.65	30% (+/-)	No	Yes
% billing provider on RX claim	0.3	0.1	0.2	-66.67	59.97	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	0.2	79.4	99.8	41,261.98	25.71	N/A	N/A	N/A
% also a provider on IP claim	0.0	0.1	15.3	151.85	22,436.35	N/A	N/A	N/A
% also a provider on LT claim	0.0	0.0	0.0	225.00	-34.18	N/A	N/A	N/A
% also a provider on OT claim	27.2	57.7	57.6	111.82	-0.15	N/A	N/A	N/A
% provider IDs with NPI	0.9	79.5	99.8	8,608.98	25.57	30% (+/-)	No	Yes
% provider IDs linked to NPPES	0.9	79.2	99.5	8,574.04	25.66	30% (+/-)	No	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of RX claims	109.0	183.4	218.7	68.31	19.24	30% (+/-)	No	Yes
average number of beneficiaries with RX claims	23.7	35.9	51.1	51.53	42.40	30% (+/-)	No	No
Provider IDs with NPI								
Number of provider IDs with NPI	432	18,707	23,337	4,230.32	24.75	30% (+/-)	No	Yes
% NPI source = MSIS	26.6	100.0	100.0	275.48	0.04	30% (+/-)	No	Yes
% NPI source = NPPES	73.4	0.0	0.0	-99.93	-91.07	30% (+/-)	No	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	432	18,632	23,260	4,212.96	24.84	30% (+/-)	No	Yes
% linked via NPI	26.6	100.0	100.0	275.48	0.04	30% (+/-)	No	Yes
% linked via Medicaid legacy provider ID	29.4	0.0	0.0	-99.87	-88.69	30% (+/-)	No	Yes
% linked via Medicare UPIN	44.0	0.0	0.0	-99.97	-100.00	30% (+/-)	No	Yes
% with name prefix	45.1	48.0	48.4	6.23	0.92	30% (+/-)	Yes	Yes
% with first name	84.5	97.6	97.8	15.54	0.23	30% (+/-)	Yes	Yes
% with middle name	69.9	82.0	81.2	17.37	-1.04	30% (+/-)	Yes	Yes
% with last name	84.5	97.6	97.8	15.54	0.23	30% (+/-)	Yes	Yes
% with name suffix	6.5	7.4	7.0	14.53	-6.35	30% (+/-)	Yes	Yes
% male	55.6	61.8	60.6	11.19	-1.92	30% (+/-)	Yes	Yes
% female	28.9	35.8	37.3	23.89	3.92	30% (+/-)	Yes	Yes
% with credential	82.9	95.1	95.1	14.73	0.01	30% (+/-)	Yes	Yes
% with business name	15.5	1.8	1.7	-88.48	-7.62	30% (+/-)	No	Yes
% with address line 1	100.0	99.4	99.5	-0.59	0.08	30% (+/-)	Yes	Yes
% with city	100.0	99.4	99.5	-0.59	0.08	30% (+/-)	Yes	Yes
% with state	100.0	99.4	99.5	-0.59	0.08	30% (+/-)	Yes	Yes
% state = RX state code	53.5	62.7	57.0	17.19	-9.00	30% (+/-)	Yes	Yes
% with zip code	100.0	99.4	99.5	-0.59	0.08	30% (+/-)	Yes	Yes
% with primary taxonomy	98.8	98.6	98.7	-0.21	0.07	30% (+/-)	Yes	Yes
% with provider entity type = individual	84.5	97.6	97.8	15.54	0.23	30% (+/-)	Yes	Yes
% with provider entity type = organization	15.5	1.8	1.7	-88.48	-7.62	30% (+/-)	No	Yes
Provider IDs with or without NPI but linked to state provider file								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A

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

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

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

2009-2011 MAX RX Prescribing Provider Characteristics Validation Table
State: SC
Produced: 05/20/2013

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[a]
Provider IDs with NPPES Primary Taxonomy								
Number of provider IDs with NPPES primary taxonomy	427	18,378	22,960	4,203.98	24.93	30% (+/-)	No	Yes
% individual or group of individuals	82.2	99.4	99.4	20.88	0.08	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	57.1	70.7	68.6	23.77	-3.07	30% (+/-)	Yes	Yes
% behavioral health and social service providers	3.3	1.1	0.9	-66.97	-18.76	30% (+/-)	Yes	Yes
% chiropractic providers	3.7	0.2	0.2	-94.05	11.33	30% (+/-)	Yes	Yes
% dental providers	3.7	7.2	7.5	91.70	4.60	30% (+/-)	Yes	Yes
% dietary and nutritional service providers	0.2	0.0	0.0	-83.76	26.08	30% (+/-)	Yes	Yes
% emergency medical service providers	0.0	0.0	0.0	Div by 0	-30.71	30% (+/-)	N/A	Yes
% eye and vision service providers	2.3	1.8	1.7	-22.63	-5.30	30% (+/-)	Yes	Yes
% nursing service providers	0.5	0.2	0.2	-48.93	-1.59	30% (+/-)	Yes	Yes
% nursing service-related providers	0.0	0.0	0.0	Div by 0	335.54	30% (+/-)	N/A	Yes
% other service providers	2.8	2.9	2.8	3.42	-3.33	30% (+/-)	Yes	Yes
% pharmacy service providers	0.2	0.1	1.0	-39.74	619.72	30% (+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	6.1	13.2	13.9	116.08	5.77	30% (+/-)	No	Yes
% podiatric medicine and surgery service providers	0.0	0.7	0.7	Div by 0	0.71	30% (+/-)	N/A	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.2	0.3	0.4	-72.16	29.59	30% (+/-)	Yes	Yes
% speech, language, and hearing service providers	0.5	0.1	0.2	-70.94	15.29	30% (+/-)	Yes	Yes
% student health care	0.0	0.7	1.2	Div by 0	76.14	30% (+/-)	N/A	Yes
% technologists, technicians, and other technical service providers	0.2	0.0	0.0	-95.30	97.97	30% (+/-)	Yes	Yes
% group of individuals with multi- or single specialty	0.2	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nonindividuals	17.8	0.6	0.6	-96.42	-12.48	30% (+/-)	No	Yes
% agencies	2.1	0.0	0.0	-99.24	36.11	30% (+/-)	Yes	Yes
% ambulatory health care facilities	1.4	0.3	0.3	-77.51	6.13	30% (+/-)	Yes	Yes
% hospital units	0.0	0.0	0.0	Div by 0	-100.00	30% (+/-)	N/A	Yes
% hospitals	9.1	0.2	0.1	-97.80	-39.33	30% (+/-)	Yes	Yes
% laboratories	0.9	0.0	0.0	-99.47	74.22	30% (+/-)	Yes	Yes
% managed care organizations	0.5	0.0	0.0	-96.58	-18.34	30% (+/-)	Yes	Yes
% nursing and custodial care facilities	0.0	0.0	0.0	Div by 0	-12.89	30% (+/-)	N/A	Yes
% residential treatment facilities	0.7	0.0	0.0	-98.44	-100.00	30% (+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	Div by 0	-12.89	30% (+/-)	N/A	Yes
% suppliers	3.0	0.1	0.0	-98.23	-11.28	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	365	18,189	22,758	4,883.29	25.12	30% (+/-)	No	Yes
% a sole proprietorship	20.0	16.1	16.8	-19.49	4.54	30% (+/-)	Yes	Yes
% not a sole proprietorship	72.3	79.0	78.5	9.19	-0.60	30% (+/-)	Yes	Yes
% not answered	7.7	4.9	4.7	-35.85	-5.26	N/A	N/A	N/A
Provider IDs with Entity Type = Organization								
Number of provider IDs with entity type = organization	67	333	384	397.01	15.32	30% (+/-)	No	Yes
% organization is a subpart	6.0	7.2	7.3	20.72	1.17	30% (+/-)	Yes	Yes
% organization is not a subpart	77.6	67.9	69.5	-12.55	2.45	30% (+/-)	Yes	Yes
% not answered	16.4	24.9	23.2	51.82	-7.01	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: SC
Produced: 05/20/2013

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[a]
All Providers								
Number of provider IDs	64,253	41,107	73,199	-36.02	78.07	30%(+/-)	No	No
% billing provider on IP claim	0.3	0.6	5.7	70.23	861.86	N/A	N/A	N/A
% NPI billing provider on IP claim	0.3	0.6	5.7	70.23	861.40	N/A	N/A	N/A
% billing provider on LT claim	0.4	0.7	0.4	57.21	-43.04	N/A	N/A	N/A
% NPI billing provider on LT claim	0.0	0.1	0.0	70.45	-52.64	N/A	N/A	N/A
% billing provider on OT claim	15.4	24.2	36.4	56.90	50.74	N/A	N/A	N/A
% servicing provider on OT claim	39.1	62.8	61.0	60.53	-2.83	N/A	N/A	N/A
% NPI servicing provider on OT claim	0.0	0.0	23.2	Div by 0	Div by 0	N/A	N/A	N/A
% billing provider on RX claim	2.0	3.1	2.9	55.97	-5.90	N/A	N/A	N/A
% prescribing provider on RX claim	73.6	57.2	31.9	-22.24	-44.21	N/A	N/A	N/A
% NPI billing provider on RX claim	0.1	45.5	35.6	31,908.45	-21.74	N/A	N/A	N/A
% billing provider	16.9	26.4	43.5	56.68	64.73	N/A	N/A	N/A
% NPI billing provider	0.5	46.1	36.3	8,814.31	-21.25	N/A	N/A	N/A
% servicing provider	39.1	62.8	61.0	60.53	-2.83	N/A	N/A	N/A
% NPI servicing provider	0.0	0.0	23.2	Div by 0	Div by 0	N/A	N/A	N/A
% prescribing provider	73.6	57.2	31.9	-22.24	-44.21	N/A	N/A	N/A
% provider IDs with NPI	1.6	47.2	63.9	2,764.24	35.55	30%(+/-)	No	No
% provider IDs linked to NPPES	1.6	47.0	46.5	2,756.66	-1.12	30%(+/-)	No	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of claims	817.6	1,361.5	819.4	66.52	-39.82	30%(+/-)	No	No
average number of beneficiaries with claims	125.0	196.3	140.3	57.02	-28.52	30%(+/-)	No	Yes
Provider IDs with NPI								
Number of provider IDs with NPI	1,058	19,392	46,807	1,732.89	141.37	30%(+/-)	No	No
% NPI source = MSIS	34.3	97.8	86.3	185.06	-11.74	30%(+/-)	No	Yes
% NPI source = NPPES	65.7	2.2	13.7	-96.66	522.75	30%(+/-)	No	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	1,057	19,317	34,011	1,727.53	76.07	30%(+/-)	No	No
% linked via NPI	34.2	97.8	81.2	185.55	-17.00	30%(+/-)	No	Yes
% linked via Medicaid legacy provider ID	45.2	2.1	17.8	-95.32	739.71	30%(+/-)	No	No
% linked via Medicare UPIN	20.5	0.1	1.1	-99.57	1,096.14	30%(+/-)	No	Yes
% with name prefix	22.1	46.4	44.3	109.62	-4.59	30%(+/-)	No	Yes
% with first name	40.7	94.5	92.1	132.21	-2.53	30%(+/-)	No	Yes
% with middle name	33.3	79.4	76.2	138.34	-4.03	30%(+/-)	No	Yes
% with last name	40.7	94.5	92.1	132.21	-2.53	30%(+/-)	No	Yes
% with name suffix	2.9	7.2	6.6	144.97	-8.42	30%(+/-)	Yes	Yes
% male	26.6	59.8	58.0	124.85	-2.99	30%(+/-)	No	Yes
% female	14.1	34.7	34.1	146.10	-1.74	30%(+/-)	No	Yes
% with credential	38.9	91.9	89.4	136.46	-2.75	30%(+/-)	No	Yes
% with business name	59.3	5.0	7.5	-91.63	51.72	30%(+/-)	No	Yes
% with address line 1	100.0	99.4	99.6	-0.57	0.18	30%(+/-)	Yes	Yes
% with city	100.0	99.4	99.6	-0.57	0.18	30%(+/-)	Yes	Yes
% with state	100.0	99.4	99.6	-0.57	0.18	30%(+/-)	Yes	Yes
% state = claim file state code	65.8	63.1	59.4	-4.03	-5.89	30%(+/-)	Yes	Yes
% with zip code	100.0	99.4	99.6	-0.57	0.18	30%(+/-)	Yes	Yes
% with primary taxonomy	99.0	98.6	98.8	-0.32	0.13	30%(+/-)	Yes	Yes

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

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

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

2009-2011 MAX All Provider Characteristics Validation Table
State: SC
Produced: 05/20/2013

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[a]
% with provider entity type = individual	40.7	94.5	92.1	132.21	-2.53	30%(+/-)	No	Yes
% with provider entity type = organization	59.3	5.0	7.5	-91.63	51.72	30%(+/-)	No	Yes
Provider IDs with or without NPI but linked to state provider file								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A
Provider IDs with NPPES Primary Taxonomy								
Number of provider IDs with NPPES primary taxonomy	1,047	19,055	33,595	1,719.96	76.31	30%(+/-)	No	No
% individual or group of individuals	43.2	96.3	96.5	123.01	0.25	30%(+/-)	No	Yes
% allopathic and osteopathic physicians	27.0	68.4	68.8	152.92	0.67	30%(+/-)	No	Yes
% behavioral health and social service providers	2.5	1.1	0.9	-54.57	-22.95	30%(+/-)	Yes	Yes
% chiropractic providers	2.5	0.2	0.4	-90.70	88.13	30%(+/-)	Yes	Yes
% dental providers	1.9	6.9	5.9	263.51	-14.34	30%(+/-)	Yes	Yes
% dietary and nutritional service providers	0.2	0.0	0.1	-78.01	48.83	30%(+/-)	Yes	Yes
% emergency medical service providers	0.0	0.0	0.1	Div by 0	20.48	30%(+/-)	N/A	Yes
% eye and vision service providers	1.4	1.8	1.7	24.15	-2.95	30%(+/-)	Yes	Yes
% nursing service providers	0.2	0.2	0.2	20.94	-8.51	30%(+/-)	Yes	Yes
% nursing service-related providers	0.1	0.0	0.0	-94.79	257.20	30%(+/-)	Yes	Yes
% other service providers	2.7	2.9	2.7	7.55	-5.40	30%(+/-)	Yes	Yes
% pharmacy service providers	0.3	0.1	1.1	-48.78	628.97	30%(+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	2.6	12.7	12.1	392.05	-4.93	30%(+/-)	No	Yes
% podiatric medicine and surgery service providers	0.0	0.6	0.7	Div by 0	3.47	30%(+/-)	N/A	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.9	0.3	0.5	-62.21	51.12	30%(+/-)	Yes	Yes
% speech, language, and hearing service providers	0.8	0.2	0.3	-77.36	97.87	30%(+/-)	Yes	Yes
% student health care	0.0	0.7	1.0	Div by 0	53.37	30%(+/-)	N/A	Yes
% technologists, technicians, and other technical service providers	0.1	0.0	0.0	-89.58	138.13	30%(+/-)	Yes	Yes
% group of individuals with multi- or single specialty	0.1	0.0	0.0	-100.00	Div by 0	30%(+/-)	Yes	N/A
% nonindividuals	56.8	3.7	3.5	-93.44	-6.53	30%(+/-)	No	Yes
% agencies	5.0	0.5	0.4	-90.80	-17.28	30%(+/-)	Yes	Yes
% ambulatory health care facilities	1.1	0.3	0.7	-69.55	112.09	30%(+/-)	Yes	Yes
% hospital units	1.8	0.1	0.1	-94.21	-40.47	30%(+/-)	Yes	Yes
% hospitals	22.2	1.3	1.1	-94.10	-17.33	30%(+/-)	No	Yes
% laboratories	0.4	0.0	0.0	-98.69	435.79	30%(+/-)	Yes	Yes
% managed care organizations	0.5	0.0	0.0	-96.65	30.23	30%(+/-)	Yes	Yes
% nursing and custodial care facilities	19.6	1.2	0.7	-93.89	-40.57	30%(+/-)	No	Yes
% residential treatment facilities	1.8	0.1	0.1	-94.82	-36.67	30%(+/-)	Yes	Yes
% respite care facility	0.1	0.0	0.0	-89.58	-40.47	30%(+/-)	Yes	Yes
% suppliers	4.5	0.2	0.3	-95.21	42.60	30%(+/-)	Yes	Yes
% transportation services	0.0	0.0	0.2	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	430	18,248	31,316	4,143.72	71.61	30%(+/-)	No	No
% a sole proprietorship	20.7	16.1	15.9	-22.03	-1.72	30%(+/-)	Yes	Yes
% not a sole proprietorship	71.6	78.9	79.5	10.21	0.72	30%(+/-)	Yes	Yes
% not answered	7.7	4.9	4.6	-35.87	-5.84	N/A	N/A	N/A
Provider IDs with Entity Type = Organization								
Number of provider IDs with entity type = organization	627	959	2,562	52.95	167.15	30%(+/-)	No	No
% organization is a subpart	8.3	8.3	12.0	0.59	44.11	30%(+/-)	Yes	No
% organization is not a subpart	58.5	64.4	70.4	10.10	9.21	30%(+/-)	Yes	Yes
% not answered	33.2	27.2	17.6	-17.96	-35.32	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.

This page has been left blank for double-sided copying.

MATHEMATICA
Policy Research

Improving public well-being by conducting high quality, objective research and surveys

Princeton, NJ ■ Ann Arbor, MI ■ Cambridge, MA ■ Chicago, IL ■ Oakland, CA ■ Washington, DC