

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

**State-Specific Validation Tables,  
2011**

June 28, 2013

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## **ACRONYMS**

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

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## INTRODUCTION

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

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

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

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

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<sup>1</sup> 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: CT

Produced: 04/10/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>IP Providers</b>								
Number of provider IDs	681	770	634	13.07	-17.66	30% (+/-)	Yes	Yes
% billing provider on IP claim	50.1	50.1	50.2	0.11	0.06	N/A	N/A	N/A
% NPI billing provider on IP claim	49.9	49.9	49.8	-0.11	-0.06	N/A	N/A	N/A
% also a provider on LT claim	0.3	0.5	0.6	76.88	21.45	N/A	N/A	N/A
% also a provider on OT claim	30.0	39.7	42.3	32.66	6.37	N/A	N/A	N/A
% also a provider on RX claim	0.4	0.3	0.0	-41.04	-100.00	N/A	N/A	N/A
% provider IDs with NPI	99.6	99.9	99.8	0.31	-0.03	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	99.6	99.9	99.8	0.31	-0.03	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	786.2	600.3	622.7	-23.65	3.73	30% (+/-)	Yes	Yes
average number of beneficiaries with IP claims	403.6	352.1	376.3	-12.75	6.86	30% (+/-)	Yes	Yes
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	678	769	633	13.42	-17.69	30% (+/-)	Yes	Yes
% 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
<b>Provider IDs Linked to NPPES</b>								
Number of provider IDs linked to NPPES	678	769	633	13.42	-17.69	30% (+/-)	Yes	Yes
% 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	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with first name	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with middle name	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with last name	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with name suffix	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% male	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% female	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with credential	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with business name	100.0	99.7	99.7	-0.26	-0.06	30% (+/-)	Yes	Yes
% with address line 1	100.0	99.7	99.7	-0.26	-0.06	30% (+/-)	Yes	Yes
% with city	100.0	99.7	99.7	-0.26	-0.06	30% (+/-)	Yes	Yes
% with state	100.0	99.7	99.7	-0.26	-0.06	30% (+/-)	Yes	Yes
% state = IP state code	18.3	16.4	20.2	-10.41	23.41	30% (+/-)	Yes	Yes
% with zip code	100.0	99.7	99.7	-0.26	-0.06	30% (+/-)	Yes	Yes
% with primary taxonomy	100.0	98.4	98.4	-1.56	-0.02	30% (+/-)	Yes	Yes
% with provider entity type = individual	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% with provider entity type = organization	100.0	99.7	99.7	-0.26	-0.06	30% (+/-)	Yes	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>								
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: CT

Produced: 04/10/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>Provider IDs with NPPES Primary Taxonomy</b>								
Number of provider IDs with NPPES primary taxonomy	678	757	623	11.65	-17.70	30% (+/-)	Yes	Yes
% individual or group of individuals	0.6	0.5	0.3	-10.44	-39.25	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	0.3	0.5	0.3	79.13	-39.25	30% (+/-)	Yes	Yes
% behavioral health and social service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% chiropractic providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% dental providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% dietary and nutritional service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% emergency medical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% eye and vision service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing service-related providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% other service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% pharmacy service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% physician assistants and advanced practice nursing providers	0.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% podiatric medicine and surgery service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% speech, language, and hearing service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% student health care	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% group of individuals with multi- or single specialty	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nonindividuals	99.4	99.5	99.7	0.06	0.21	30% (+/-)	Yes	Yes
% agencies	0.0	0.0	0.3	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% ambulatory health care facilities	12.8	0.3	0.0	-97.94	-100.00	30% (+/-)	No	Yes
% hospital units	7.5	7.5	7.9	0.10	4.45	30% (+/-)	Yes	Yes
% hospitals	78.5	91.7	91.2	16.84	-0.55	30% (+/-)	Yes	Yes
% laboratories	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% managed care organizations	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% nursing and custodial care facilities	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% residential treatment facilities	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% respite care facility	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% suppliers	0.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% transportation services	0.3	0.0	0.3	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>								
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
<b>Provider IDs with Entity Type = Organization</b>								
Number of provider IDs with entity type = organization	678	767	631	13.13	-17.73	30% (+/-)	Yes	Yes
% organization is a subpart	5.6	7.8	6.7	39.57	-14.91	30% (+/-)	Yes	Yes
% organization is not a subpart	74.8	79.8	80.5	6.70	0.90	30% (+/-)	Yes	Yes
% not answered	19.6	12.4	12.8	-36.86	3.64	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.

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2009-2011 MAX LT Billing Provider Characteristics Validation Table

State: CT

Produced: 04/10/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>LT Providers</b>								
Number of provider IDs	800	793	778	-0.88	-1.89	30% (+/-)	Yes	Yes
% billing provider on LT claim	50.9	51.1	51.0	0.39	-0.09	N/A	N/A	N/A
% NPI billing provider on LT claim	49.1	48.9	49.0	-0.40	0.09	N/A	N/A	N/A
% also a provider on IP claim	0.3	0.5	0.5	101.77	1.93	N/A	N/A	N/A
% also a provider on OT claim	1.3	1.4	1.5	10.97	11.19	N/A	N/A	N/A
% also a provider on RX claim	1.0	0.4	0.1	-62.17	-66.02	N/A	N/A	N/A
% provider IDs with NPI	99.1	99.9	100.0	0.76	0.13	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	99.1	99.9	100.0	0.76	0.13	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	758.4	751.8	759.1	-0.86	0.97	30% (+/-)	Yes	Yes
average number of beneficiaries with LT claims	86.3	87.5	92.6	1.40	5.80	30% (+/-)	Yes	Yes
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	793	792	778	-0.13	-1.77	30% (+/-)	Yes	Yes
% NPI source = MSIS	99.0	98.4	98.1	-0.64	-0.29	30% (+/-)	Yes	Yes
% NPI source = NPPES	1.0	1.6	1.9	62.71	17.46	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
<b>Provider IDs Linked to NPPES</b>								
Number of provider IDs linked to NPPES	793	792	778	-0.13	-1.77	30% (+/-)	Yes	Yes
% linked via NPI	99.0	98.4	98.1	-0.64	-0.29	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	1.0	1.6	1.9	62.71	17.46	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	95.2	94.7	94.5	-0.54	-0.24	30% (+/-)	Yes	Yes
% with zip code	100.0	100.0	100.0	0.00	0.00	30% (+/-)	Yes	Yes
% with primary taxonomy	99.4	98.0	97.9	-1.40	-0.04	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
<b>Provider IDs with or without NPI but linked to state provider file</b>								
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 eExtract (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: CT  
Produced: 04/10/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>Provider IDs with NPPES Primary Taxonomy</b>								
Number of provider IDs with NPPES primary taxonomy	788	776	762	-1.52	-1.80	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	1.3	1.5	1.6	21.86	1.84	30% (+/-)	Yes	Yes
% ambulatory health care facilities	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% hospital units	0.8	0.5	0.5	-32.30	1.84	30% (+/-)	Yes	Yes
% hospitals	6.5	6.8	6.0	5.53	-11.61	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	91.2	90.9	91.6	-0.43	0.83	30% (+/-)	Yes	Yes
% residential treatment facilities	0.3	0.3	0.3	1.55	1.84	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
<b>Provider IDs with Entity Type = Individual</b>								
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
<b>Provider IDs with Entity Type = Organization</b>								
Number of provider IDs with entity type = organization	793	792	778	-0.13	-1.77	30% (+/-)	Yes	Yes
% organization is a subpart	6.1	8.6	9.1	41.85	6.29	30% (+/-)	Yes	Yes
% organization is not a subpart	45.6	51.8	51.8	13.40	0.06	30% (+/-)	Yes	Yes
% not answered	48.3	39.6	39.1	-17.91	-1.44	N/A	N/A	N/A

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

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

2009-2011 MAX OT Servicing Provider Characteristics Validation Table

State: CT

Produced: 04/10/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>OT Providers</b>								
Number of provider IDs	40,741	48,371	51,891	18.73	7.28	30% (+/-)	Yes	Yes
% billing provider on OT claim	21.0	24.0	23.8	13.91	-0.74	N/A	N/A	N/A
% servicing provider on OT claim	56.0	56.1	57.1	0.21	1.72	N/A	N/A	N/A
% NPI servicing provider on OT claim	44.0	43.9	42.9	-0.27	-2.20	N/A	N/A	N/A
% also a provider on IP claim	0.5	0.6	0.5	20.97	-16.65	N/A	N/A	N/A
% also a provider on LT claim	0.0	0.0	0.0	-7.35	1.69	N/A	N/A	N/A
% also a provider on RX claim	26.5	25.4	25.1	-4.17	-0.90	N/A	N/A	N/A
% provider IDs with NPI	86.5	88.0	87.0	1.67	-1.03	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	85.6	87.5	86.6	2.21	-1.00	30% (+/-)	Yes	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of OT claims	1,158.3	1,191.8	1,268.0	2.89	6.40	30% (+/-)	Yes	Yes
average number of beneficiaries with OT claims	138.2	158.4	177.5	14.63	12.08	30% (+/-)	Yes	Yes
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	35,244	42,543	45,169	20.71	6.17	30% (+/-)	Yes	Yes
% NPI source = MSIS	99.4	99.7	99.8	0.35	0.04	30% (+/-)	Yes	Yes
% NPI source = NPPES	0.6	0.3	0.2	-56.30	-16.46	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
<b>Provider IDs Linked to NPPES</b>								
Number of provider IDs linked to NPPES	34,879	42,327	44,954	21.35	6.21	30% (+/-)	Yes	Yes
% linked via NPI	99.4	99.7	99.8	0.36	0.04	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	0.6	0.3	0.2	-56.91	-16.58	30% (+/-)	Yes	Yes
% linked via Medicare UPIN	0.0	0.0	0.0	Div by 0	-5.84	30% (+/-)	N/A	Yes
% with name prefix	35.5	36.2	35.9	2.13	-0.86	30% (+/-)	Yes	Yes
% with first name	80.8	80.4	80.5	-0.50	0.11	30% (+/-)	Yes	Yes
% with middle name	53.1	53.5	53.2	0.62	-0.40	30% (+/-)	Yes	Yes
% with last name	80.8	80.4	80.5	-0.50	0.11	30% (+/-)	Yes	Yes
% with name suffix	1.4	1.6	1.4	14.70	-15.96	30% (+/-)	Yes	Yes
% male	49.1	48.2	46.5	-1.69	-3.56	30% (+/-)	Yes	Yes
% female	31.7	32.1	33.9	1.36	5.63	30% (+/-)	Yes	Yes
% with credential	78.0	77.7	77.7	-0.36	-0.02	30% (+/-)	Yes	Yes
% with business name	19.2	19.3	19.4	0.17	0.47	30% (+/-)	Yes	Yes
% with address line 1	100.0	99.6	99.8	-0.37	0.18	30% (+/-)	Yes	Yes
% with city	100.0	99.6	99.8	-0.37	0.18	30% (+/-)	Yes	Yes
% with state	100.0	99.6	99.8	-0.37	0.18	30% (+/-)	Yes	Yes
% state = OT state code	77.3	71.1	72.3	-8.04	1.80	30% (+/-)	Yes	Yes
% with zip code	100.0	99.6	99.8	-0.37	0.18	30% (+/-)	Yes	Yes
% with primary taxonomy	97.5	97.3	97.5	-0.16	0.21	30% (+/-)	Yes	Yes
% with provider entity type = individual	80.8	80.4	80.5	-0.50	0.11	30% (+/-)	Yes	Yes
% with provider entity type = organization	19.2	19.3	19.4	0.17	0.47	30% (+/-)	Yes	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A

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

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2009-2011 MAX OT Servicing Provider Characteristics Validation Table

State: CT

Produced: 04/10/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>Provider IDs with NPPES Primary Taxonomy</b>								
Number of provider IDs with NPPES primary taxonomy	34,034	41,196	43,845	21.04	6.43	30% (+/-)	Yes	Yes
% individual or group of individuals	86.5	87.5	87.6	1.09	0.17	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	62.0	61.1	59.7	-1.41	-2.39	30% (+/-)	Yes	Yes
% behavioral health and social service providers	4.4	5.0	5.4	13.24	8.06	30% (+/-)	Yes	Yes
% chiropractic providers	0.5	0.7	0.7	35.45	-1.71	30% (+/-)	Yes	Yes
% dental providers	4.3	4.4	4.8	3.10	9.23	30% (+/-)	Yes	Yes
% dietary and nutritional service providers	0.1	0.0	0.0	-52.17	62.29	30% (+/-)	Yes	Yes
% emergency medical service providers	0.0	0.0	0.0	136.04	-29.53	30% (+/-)	Yes	Yes
% eye and vision service providers	1.8	1.7	1.7	-5.85	-0.08	30% (+/-)	Yes	Yes
% nursing service providers	0.2	0.1	0.1	-39.21	-1.22	30% (+/-)	Yes	Yes
% nursing service-related providers	0.1	0.0	0.0	-38.04	6.49	30% (+/-)	Yes	Yes
% other service providers	1.7	2.2	2.1	26.37	-3.34	30% (+/-)	Yes	Yes
% pharmacy service providers	0.0	0.0	0.0	147.84	-16.48	30% (+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	8.3	9.0	9.7	8.42	7.94	30% (+/-)	Yes	Yes
% podiatric medicine and surgery service providers	0.9	0.9	1.0	1.72	18.10	30% (+/-)	Yes	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.7	1.7	1.5	-4.47	-10.00	30% (+/-)	Yes	Yes
% speech, language, and hearing service providers	0.3	0.3	0.3	-0.71	8.30	30% (+/-)	Yes	Yes
% student health care	0.3	0.3	0.4	0.01	56.05	30% (+/-)	Yes	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	147.84	-37.36	30% (+/-)	Yes	Yes
% 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	13.5	12.5	12.4	-6.99	-1.16	30% (+/-)	Yes	Yes
% agencies	1.4	1.3	1.3	-10.01	-0.44	30% (+/-)	Yes	Yes
% ambulatory health care facilities	3.7	1.6	1.8	-56.38	9.74	30% (+/-)	Yes	Yes
% hospital units	0.1	0.1	0.1	4.65	16.21	30% (+/-)	Yes	Yes
% hospitals	1.4	3.1	3.1	115.24	1.26	30% (+/-)	Yes	Yes
% laboratories	0.6	0.8	0.7	22.01	-8.40	30% (+/-)	Yes	Yes
% managed care organizations	0.0	0.0	0.0	32.18	-6.04	30% (+/-)	Yes	Yes
% nursing and custodial care facilities	0.1	0.1	0.1	-20.44	-9.66	30% (+/-)	Yes	Yes
% residential treatment facilities	0.1	0.1	0.1	-5.86	5.46	30% (+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	32.18	-6.04	30% (+/-)	Yes	Yes
% suppliers	4.7	4.2	4.0	-11.33	-4.40	30% (+/-)	Yes	Yes
% transportation services	1.2	1.3	1.2	1.95	-7.84	30% (+/-)	Yes	Yes
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>								
Number of provider IDs with entity type = individual	28,171	34,017	36,169	20.75	6.33	30% (+/-)	Yes	Yes
% a sole proprietorship	15.3	16.3	16.9	6.83	3.18	30% (+/-)	Yes	Yes
% not a sole proprietorship	73.3	75.6	75.7	3.19	0.20	30% (+/-)	Yes	Yes
% not answered	11.4	8.1	7.4	-29.51	-8.28	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>								
Number of provider IDs with entity type = organization	6,708	8,154	8,701	21.56	6.71	30% (+/-)	Yes	Yes
% organization is a subpart	8.3	7.8	8.2	-6.09	5.19	30% (+/-)	Yes	Yes
% organization is not a subpart	67.2	73.3	73.3	8.98	0.10	30% (+/-)	Yes	Yes
% not answered	24.5	18.9	18.5	-22.60	-2.52	N/A	N/A	N/A

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2009-2011 MAX OT Billing Provider Characteristics Validation Table

State: CT

Produced: 04/10/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>OT Providers</b>								
Number of provider IDs	10,279	14,333	14,701	39.44	2.57	30% (+/-)	No	Yes
% billing provider on OT claim	100.0	100.0	100.0	0.00	0.00	N/A	N/A	N/A
% servicing provider on OT claim	83.4	80.9	83.9	-3.01	3.81	N/A	N/A	N/A
% NPI servicing provider on OT claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% also a provider on IP claim	0.5	0.4	0.4	-21.11	2.81	N/A	N/A	N/A
% also a provider on LT claim	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
% also a provider on RX claim	5.4	5.8	6.0	6.55	3.38	N/A	N/A	N/A
% provider IDs with NPI	78.7	80.1	81.9	1.71	2.34	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	78.5	80.0	81.9	1.93	2.38	30% (+/-)	Yes	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of OT claims	3,014.8	2,634.2	2,733.3	-12.62	3.76	30% (+/-)	Yes	Yes
average number of beneficiaries with OT claims	316.5	301.1	331.3	-4.85	10.02	30% (+/-)	Yes	Yes
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	8,090	11,474	12,044	41.83	4.97	30% (+/-)	No	Yes
% NPI source = MSIS	97.2	98.4	98.7	1.27	0.33	30% (+/-)	Yes	Yes
% NPI source = NPPES	2.8	1.6	1.3	-43.29	-20.18	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
<b>Provider IDs Linked to NPPES</b>								
Number of provider IDs linked to NPPES	8,067	11,466	12,040	42.13	5.01	30% (+/-)	No	Yes
% linked via NPI	97.1	98.4	98.7	1.27	0.33	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	2.9	1.6	1.3	-43.41	-20.21	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	28.9	30.6	29.7	5.93	-2.92	30% (+/-)	Yes	Yes
% with first name	60.1	64.9	63.4	8.03	-2.39	30% (+/-)	Yes	Yes
% with middle name	41.5	44.5	43.8	7.25	-1.63	30% (+/-)	Yes	Yes
% with last name	60.1	64.9	63.4	8.03	-2.39	30% (+/-)	Yes	Yes
% with name suffix	1.2	1.3	1.1	3.38	-16.01	30% (+/-)	Yes	Yes
% male	41.1	42.5	40.3	3.19	-5.16	30% (+/-)	Yes	Yes
% female	19.0	22.5	23.1	18.53	2.85	30% (+/-)	Yes	Yes
% with credential	58.9	63.5	62.1	7.89	-2.27	30% (+/-)	Yes	Yes
% with business name	39.9	34.7	36.4	-13.16	5.06	30% (+/-)	Yes	Yes
% with address line 1	100.0	99.6	99.8	-0.43	0.20	30% (+/-)	Yes	Yes
% with city	100.0	99.6	99.8	-0.43	0.20	30% (+/-)	Yes	Yes
% with state	100.0	99.6	99.8	-0.43	0.20	30% (+/-)	Yes	Yes
% state = OT state code	86.2	79.9	79.7	-7.36	-0.22	30% (+/-)	Yes	Yes
% with zip code	100.0	99.6	99.8	-0.43	0.20	30% (+/-)	Yes	Yes
% with primary taxonomy	98.8	96.9	97.1	-1.92	0.21	30% (+/-)	Yes	Yes
% with provider entity type = individual	60.1	64.9	63.4	8.03	-2.39	30% (+/-)	Yes	Yes
% with provider entity type = organization	39.9	34.7	36.4	-13.16	5.06	30% (+/-)	Yes	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>								
Number of provider IDs with or without NPI linked to state provider file	0	0	0	Div by 0	Div by 0	N/A	N/A	N/A

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

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State: CT

Produced: 04/10/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>Provider IDs with NPPES Primary Taxonomy</b>								
Number of provider IDs with NPPES primary taxonomy	7,982	11,111	11,692	39.20	5.23	30% (+/-)	No	Yes
% individual or group of individuals	75.6	78.4	77.5	3.73	-1.16	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	58.8	58.5	56.3	-0.45	-3.81	30% (+/-)	Yes	Yes
% behavioral health and social service providers	3.7	3.7	4.4	1.12	18.15	30% (+/-)	Yes	Yes
% chiropractic providers	0.7	1.0	1.0	36.25	-2.38	30% (+/-)	Yes	Yes
% dental providers	3.7	3.4	3.5	-8.88	3.58	30% (+/-)	Yes	Yes
% dietary and nutritional service providers	0.1	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% emergency medical service providers	0.0	0.0	0.0	Div by 0	-52.48	30% (+/-)	N/A	Yes
% eye and vision service providers	2.8	2.5	2.7	-9.15	5.81	30% (+/-)	Yes	Yes
% nursing service providers	0.1	0.0	0.0	-55.10	-4.97	30% (+/-)	Yes	Yes
% nursing service-related providers	0.0	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% other service providers	1.3	2.8	2.6	110.77	-6.50	30% (+/-)	Yes	Yes
% pharmacy service providers	0.0	0.0	0.0	Div by 0	-4.97	30% (+/-)	N/A	Yes
% physician assistants and advanced practice nursing providers	2.1	4.1	4.7	94.87	15.59	30% (+/-)	Yes	Yes
% podiatric medicine and surgery service providers	1.5	1.4	1.4	-6.24	3.05	30% (+/-)	Yes	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.6	0.5	0.4	-13.47	-19.31	30% (+/-)	Yes	Yes
% speech, language, and hearing service providers	0.2	0.2	0.2	29.31	-19.05	30% (+/-)	Yes	Yes
% student health care	0.1	0.1	0.2	86.78	60.82	30% (+/-)	Yes	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	Div by 0	-36.65	30% (+/-)	N/A	Yes
% 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	24.4	21.6	22.5	-11.54	4.22	30% (+/-)	Yes	Yes
% agencies	2.4	1.9	2.1	-18.71	6.08	30% (+/-)	Yes	Yes
% ambulatory health care facilities	4.9	1.9	2.9	-62.16	57.47	30% (+/-)	Yes	Yes
% hospital units	0.2	0.2	0.2	7.76	22.18	30% (+/-)	Yes	Yes
% hospitals	2.9	5.3	5.6	79.90	5.41	30% (+/-)	Yes	Yes
% laboratories	1.2	1.4	1.1	21.81	-18.37	30% (+/-)	Yes	Yes
% managed care organizations	0.0	0.0	0.0	-28.16	90.06	30% (+/-)	Yes	Yes
% nursing and custodial care facilities	0.1	0.1	0.1	-28.16	-4.97	30% (+/-)	Yes	Yes
% residential treatment facilities	0.3	0.2	0.2	-31.03	14.83	30% (+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	Div by 0	-4.97	30% (+/-)	N/A	Yes
% suppliers	9.8	8.3	8.1	-15.25	-2.59	30% (+/-)	Yes	Yes
% transportation services	2.6	2.3	2.1	-11.32	-7.55	30% (+/-)	Yes	Yes
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>								
Number of provider IDs with entity type = individual	4,848	7,444	7,630	53.55	2.50	30% (+/-)	No	Yes
% a sole proprietorship	24.2	22.0	22.6	-9.02	2.74	30% (+/-)	Yes	Yes
% not a sole proprietorship	62.8	69.6	70.3	10.83	0.99	30% (+/-)	Yes	Yes
% not answered	13.0	8.4	7.1	-35.49	-15.41	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>								
Number of provider IDs with entity type = organization	3,219	3,973	4,383	23.42	10.32	30% (+/-)	Yes	Yes
% organization is a subpart	9.1	8.0	8.2	-12.04	2.66	30% (+/-)	Yes	Yes
% organization is not a subpart	68.3	74.9	74.9	9.63	0.09	30% (+/-)	Yes	Yes
% not answered	22.6	17.2	16.9	-24.20	-1.65	N/A	N/A	N/A

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

<sup>a</sup> "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.

<sup>b</sup> "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: CT  
Produced: 04/10/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>RX Providers</b>								
Number of provider IDs	26,181	2,580	2,677	-90.15	3.76	30% (+/-)	No	Yes
% billing provider on RX claim	4.4	58.8	59.3	1,233.69	0.76	N/A	N/A	N/A
% prescribing provider on RX claim	93.5	28.6	29.9	-69.40	4.60	N/A	N/A	N/A
% NPI billing provider on RX claim	95.6	41.2	40.7	-56.94	-1.08	N/A	N/A	N/A
% also a provider on IP claim	0.0	0.0	0.0	-100.00	Div by 0	N/A	N/A	N/A
% also a provider on LT claim	0.0	0.0	0.0	-100.00	Div by 0	N/A	N/A	N/A
% also a provider on OT claim	40.0	61.4	62.3	53.40	1.48	N/A	N/A	N/A
% provider IDs with NPI	98.4	100.0	99.9	1.58	-0.04	30% (+/-)	Yes	Yes
% provider IDs linked to NPPES	97.5	100.0	99.9	2.55	-0.04	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 RX claims	985.4	7,499.0	7,822.5	661.04	4.31	30% (+/-)	No	Yes
average number of beneficiaries with RX claims	88.7	609.8	651.6	587.37	6.84	30% (+/-)	No	Yes
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	25,763	2,579	2,675	-89.99	3.72	30% (+/-)	No	Yes
% NPI source = MSIS	98.9	99.8	99.9	0.98	0.04	30% (+/-)	Yes	Yes
% NPI source = NPPES	1.1	0.2	0.1	-86.17	-27.69	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
<b>Provider IDs Linked to NPPES</b>								
Number of provider IDs linked to NPPES	25,519	2,579	2,675	-89.89	3.72	30% (+/-)	No	Yes
% linked via NPI	98.9	99.8	99.9	0.99	0.04	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	1.1	0.2	0.1	-86.30	-27.69	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	45.0	1.4	1.4	-96.99	1.92	30% (+/-)	No	Yes
% with first name	91.2	2.1	2.1	-97.75	1.87	30% (+/-)	No	Yes
% with middle name	61.1	1.8	1.9	-97.02	4.62	30% (+/-)	No	Yes
% with last name	91.2	2.1	2.1	-97.75	1.87	30% (+/-)	No	Yes
% with name suffix	1.9	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% male	53.4	1.3	1.3	-97.60	5.18	30% (+/-)	No	Yes
% female	37.8	0.8	0.7	-97.95	-3.59	30% (+/-)	No	Yes
% with credential	88.1	1.5	1.6	-98.28	8.77	30% (+/-)	No	Yes
% with business name	8.8	96.9	97.3	999.44	0.42	30% (+/-)	No	Yes
% with address line 1	100.0	99.0	99.4	-1.01	0.45	30% (+/-)	Yes	Yes
% with city	100.0	99.0	99.4	-1.01	0.45	30% (+/-)	Yes	Yes
% with state	100.0	99.0	99.4	-1.01	0.45	30% (+/-)	Yes	Yes
% state = RX state code	68.1	83.4	83.6	22.39	0.22	30% (+/-)	Yes	Yes
% with zip code	100.0	99.0	99.4	-1.01	0.45	30% (+/-)	Yes	Yes
% with primary taxonomy	98.0	95.7	96.5	-2.40	0.83	30% (+/-)	Yes	Yes
% with provider entity type = individual	91.2	2.1	2.1	-97.75	1.87	30% (+/-)	No	Yes
% with provider entity type = organization	8.8	96.9	97.3	999.44	0.42	30% (+/-)	No	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>								
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: CT  
Produced: 04/10/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>Provider IDs with NPPES Primary Taxonomy</b>								
Number of provider IDs with NPPES primary taxonomy	25,030	2,468	2,581	-90.14	4.58	30% (+/-)	No	Yes
% individual or group of individuals	91.9	3.9	4.5	-95.77	15.54	30% (+/-)	No	Yes
% allopathic and osteopathic physicians	55.5	0.2	0.4	-99.56	59.37	30% (+/-)	No	Yes
% behavioral health and social service providers	1.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% chiropractic providers	0.2	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% dental providers	8.3	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% dietary and nutritional service providers	0.0	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% emergency medical service providers	0.1	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% eye and vision service providers	1.4	0.2	0.3	-88.73	91.24	30% (+/-)	Yes	Yes
% nursing service providers	0.4	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	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	2.1	0.2	0.3	-88.39	27.50	30% (+/-)	Yes	Yes
% pharmacy service providers	0.1	0.4	0.4	228.12	-4.38	30% (+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	13.7	0.0	0.0	-100.00	Div by 0	30% (+/-)	No	N/A
% podiatric medicine and surgery service providers	1.1	0.2	0.6	-85.72	282.49	30% (+/-)	Yes	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.5	0.2	0.1	-55.91	-42.63	30% (+/-)	Yes	Yes
% speech, language, and hearing service providers	0.3	2.4	2.3	642.08	-4.38	30% (+/-)	Yes	Yes
% student health care	6.8	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	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	8.1	96.1	95.5	1,089.73	-0.63	30% (+/-)	No	Yes
% agencies	0.1	0.1	0.1	-3.41	-4.38	30% (+/-)	Yes	Yes
% ambulatory health care facilities	0.9	0.1	0.2	-90.65	91.24	30% (+/-)	Yes	Yes
% hospital units	0.0	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% hospitals	0.6	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% laboratories	0.0	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% managed care organizations	0.0	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nursing and custodial care facilities	0.1	0.1	0.1	44.88	-4.38	30% (+/-)	Yes	Yes
% residential treatment facilities	0.0	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% respite care facility	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% suppliers	6.4	95.9	95.2	1,396.91	-0.70	30% (+/-)	No	Yes
% transportation services	0.0	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>								
Number of provider IDs with entity type = individual	23,269	53	56	-99.77	5.66	30% (+/-)	No	Yes
% a sole proprietorship	22.5	49.1	53.6	118.47	9.20	30% (+/-)	No	Yes
% not a sole proprietorship	68.3	50.9	42.9	-25.44	-15.87	30% (+/-)	Yes	Yes
% not answered	9.2	0.0	3.6	-100.00	Div by 0	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>								
Number of provider IDs with entity type = organization	2,250	2,500	2,604	11.11	4.16	30% (+/-)	Yes	Yes
% organization is a subpart	13.5	17.5	17.7	30.10	1.27	30% (+/-)	No	Yes
% organization is not a subpart	67.8	74.9	75.3	10.41	0.52	30% (+/-)	Yes	Yes
% not answered	18.7	7.6	7.0	-59.38	-8.04	N/A	N/A	N/A

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

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

2009-2011 MAX RX Prescribing Provider Characteristics Validation Table

State: CT  
Produced: 04/10/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>RX Providers</b>								
Number of provider IDs	26,993	29,269	30,573	8.43	4.46	30% (+/-)	Yes	Yes
% billing provider on RX claim	0.0	0.0	0.0	-100.00	Div by 0	N/A	N/A	N/A
% prescribing provider on RX claim	100.0	100.0	100.0	0.00	0.00	N/A	N/A	N/A
% NPI billing provider on RX claim	90.7	2.5	2.6	-97.22	3.91	N/A	N/A	N/A
% also a provider on IP claim	0.0	0.0	0.0	-38.52	-100.00	N/A	N/A	N/A
% also a provider on LT claim	0.0	0.0	0.0	-65.42	-68.09	N/A	N/A	N/A
% also a provider on OT claim	36.4	38.6	39.4	5.93	2.08	N/A	N/A	N/A
% provider IDs with NPI	91.8	39.1	39.9	-57.37	2.05	30% (+/-)	No	Yes
% provider IDs linked to NPPES	90.9	39.1	39.9	-56.96	2.05	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	584.1	589.6	627.6	0.93	6.44	30% (+/-)	Yes	Yes
average number of beneficiaries with RX claims	53.8	74.3	79.2	38.19	6.58	30% (+/-)	No	Yes
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	24,775	11,452	12,208	-53.78	6.60	30% (+/-)	No	Yes
% NPI source = MSIS	100.0	99.8	99.7	-0.24	-0.03	30% (+/-)	Yes	Yes
% NPI source = NPPES	0.0	0.2	0.3	2,928.73	10.56	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
<b>Provider IDs Linked to NPPES</b>								
Number of provider IDs linked to NPPES	24,537	11,452	12,208	-53.33	6.60	30% (+/-)	No	Yes
% linked via NPI	100.0	99.8	99.7	-0.24	-0.03	30% (+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	0.0	0.2	0.2	4,399.45	2.74	30% (+/-)	Yes	Yes
% linked via Medicare UPIN	0.0	0.1	0.1	1,399.82	34.01	30% (+/-)	Yes	Yes
% with name prefix	47.3	41.7	42.0	-11.75	0.82	30% (+/-)	Yes	Yes
% with first name	95.9	91.9	92.3	-4.13	0.40	30% (+/-)	Yes	Yes
% with middle name	64.2	61.3	61.4	-4.53	0.24	30% (+/-)	Yes	Yes
% with last name	95.9	91.9	92.3	-4.13	0.40	30% (+/-)	Yes	Yes
% with name suffix	2.0	1.7	1.5	-13.68	-11.48	30% (+/-)	Yes	Yes
% male	56.0	56.0	54.5	-0.09	-2.66	30% (+/-)	Yes	Yes
% female	39.8	35.9	37.8	-9.82	5.18	30% (+/-)	Yes	Yes
% with credential	92.6	89.6	89.9	-3.27	0.32	30% (+/-)	Yes	Yes
% with business name	4.1	7.7	7.5	86.27	-2.38	30% (+/-)	Yes	Yes
% with address line 1	100.0	99.6	99.8	-0.38	0.19	30% (+/-)	Yes	Yes
% with city	100.0	99.6	99.8	-0.38	0.19	30% (+/-)	Yes	Yes
% with state	100.0	99.6	99.8	-0.38	0.19	30% (+/-)	Yes	Yes
% state = RX state code	67.2	86.8	86.9	29.18	0.17	30% (+/-)	Yes	Yes
% with zip code	100.0	99.6	99.8	-0.38	0.19	30% (+/-)	Yes	Yes
% with primary taxonomy	98.0	97.6	98.0	-0.40	0.38	30% (+/-)	Yes	Yes
% with provider entity type = individual	95.9	91.9	92.3	-4.13	0.40	30% (+/-)	Yes	Yes
% with provider entity type = organization	4.1	7.7	7.5	86.27	-2.38	30% (+/-)	Yes	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>								
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: CT  
Produced: 04/10/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>Provider IDs with NPPES Primary Taxonomy</b>								
Number of provider IDs with NPPES primary taxonomy	24,059	11,181	11,964	-53.53	7.00	30% (+/-)	No	Yes
% individual or group of individuals	96.6	93.4	93.5	-3.30	0.17	30% (+/-)	Yes	Yes
% allopathic and osteopathic physicians	58.5	65.8	64.0	12.57	-2.70	30% (+/-)	Yes	Yes
% behavioral health and social service providers	1.4	0.3	0.2	-78.81	-15.31	30% (+/-)	Yes	Yes
% chiropractic providers	0.2	0.0	0.1	-76.09	30.84	30% (+/-)	Yes	Yes
% dental providers	8.8	6.9	7.5	-21.50	8.40	30% (+/-)	Yes	Yes
% dietary and nutritional service providers	0.0	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% emergency medical service providers	0.1	0.0	0.0	-76.95	24.61	30% (+/-)	Yes	Yes
% eye and vision service providers	1.5	2.0	2.1	35.53	2.47	30% (+/-)	Yes	Yes
% nursing service providers	0.4	0.1	0.1	-78.26	12.15	30% (+/-)	Yes	Yes
% nursing service-related providers	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% other service providers	2.2	2.3	2.2	7.79	-5.83	30% (+/-)	Yes	Yes
% pharmacy service providers	0.1	0.0	0.0	-79.83	-6.54	30% (+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	14.5	13.8	15.0	-4.67	8.90	30% (+/-)	Yes	Yes
% podiatric medicine and surgery service providers	1.2	1.3	1.5	11.80	12.02	30% (+/-)	Yes	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.5	0.1	0.1	-69.80	-47.43	30% (+/-)	Yes	Yes
% speech, language, and hearing service providers	0.2	0.3	0.3	24.14	-3.43	30% (+/-)	Yes	Yes
% student health care	7.1	0.3	0.5	-95.34	41.45	30% (+/-)	Yes	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	7.59	-6.54	30% (+/-)	Yes	Yes
% 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	3.4	6.6	6.5	92.98	-2.37	30% (+/-)	Yes	Yes
% agencies	0.1	0.1	0.1	-3.17	-37.70	30% (+/-)	Yes	Yes
% ambulatory health care facilities	0.9	0.4	0.4	-56.20	-14.67	30% (+/-)	Yes	Yes
% hospital units	0.0	0.0	0.0	-100.00	Div by 0	30% (+/-)	Yes	N/A
% hospitals	0.6	0.1	0.0	-79.51	-66.62	30% (+/-)	Yes	Yes
% laboratories	0.0	0.0	0.0	-7.78	-37.70	30% (+/-)	Yes	Yes
% managed care organizations	0.0	0.0	0.0	7.59	-100.00	30% (+/-)	Yes	Yes
% nursing and custodial care facilities	0.1	0.0	0.0	-83.45	-100.00	30% (+/-)	Yes	Yes
% residential treatment facilities	0.0	0.0	0.0	-56.96	-6.54	30% (+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	Div by 0	Div by 0	30% (+/-)	N/A	N/A
% suppliers	1.6	5.9	6.0	260.08	0.95	30% (+/-)	Yes	Yes
% transportation services	0.0	0.0	0.0	61.38	-37.70	30% (+/-)	Yes	Yes
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>								
Number of provider IDs with entity type = individual	23,519	10,523	11,263	-55.26	7.03	30% (+/-)	No	Yes
% a sole proprietorship	22.3	16.5	16.8	-26.17	2.11	30% (+/-)	Yes	Yes
% not a sole proprietorship	68.5	76.7	76.9	12.00	0.19	30% (+/-)	Yes	Yes
% not answered	9.2	6.8	6.3	-25.88	-7.22	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>								
Number of provider IDs with entity type = organization	1,018	885	921	-13.06	4.07	30% (+/-)	Yes	Yes
% organization is a subpart	6.6	14.1	14.3	114.60	1.47	30% (+/-)	No	Yes
% organization is not a subpart	62.3	73.6	75.4	18.11	2.44	30% (+/-)	Yes	Yes
% not answered	31.1	12.3	10.3	-60.45	-16.25	N/A	N/A	N/A

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

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

2009-2011 MAX All Provider Characteristics Validation Table

State: CT  
Produced: 04/10/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
<b>All Providers</b>								
Number of provider IDs	61,625	71,199	74,789	15.54	5.04	30%(+/-)	Yes	Yes
% billing provider on IP claim	0.6	0.5	0.4	-2.02	-21.57	N/A	N/A	N/A
% NPI billing provider on IP claim	0.6	0.5	0.4	-2.25	-21.66	N/A	N/A	N/A
% billing provider on LT claim	0.7	0.6	0.5	-13.87	-6.68	N/A	N/A	N/A
% NPI billing provider on LT claim	0.6	0.5	0.5	-14.55	-6.52	N/A	N/A	N/A
% billing provider on OT claim	16.7	20.1	19.7	20.69	-2.36	N/A	N/A	N/A
% servicing provider on OT claim	37.0	38.1	39.6	2.98	3.89	N/A	N/A	N/A
% NPI servicing provider on OT claim	29.1	29.8	29.8	2.48	-0.12	N/A	N/A	N/A
% billing provider on RX claim	1.9	2.1	2.1	13.76	-0.47	N/A	N/A	N/A
% prescribing provider on RX claim	43.8	41.1	40.9	-6.15	-0.56	N/A	N/A	N/A
% NPI billing provider on RX claim	40.6	1.5	1.5	-96.33	-2.29	N/A	N/A	N/A
% billing provider	18.8	22.1	21.5	17.84	-2.94	N/A	N/A	N/A
% NPI billing provider	41.8	2.6	2.4	-93.85	-7.25	N/A	N/A	N/A
% servicing provider	37.0	38.1	39.6	2.98	3.89	N/A	N/A	N/A
% NPI servicing provider	29.1	29.8	29.8	2.48	-0.12	N/A	N/A	N/A
% prescribing provider	43.8	41.1	40.9	-6.15	-0.56	N/A	N/A	N/A
% provider IDs with NPI	84.3	63.1	63.4	-25.18	0.47	30%(+/-)	Yes	Yes
% provider IDs linked to NPPES	83.4	62.8	63.1	-24.70	0.50	30%(+/-)	Yes	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
average number of claims	1,394.3	1,424.1	1,453.9	2.14	2.09	30%(+/-)	Yes	Yes
average number of beneficiaries with claims	143.6	162.3	176.5	13.06	8.72	30%(+/-)	Yes	Yes
<b>Provider IDs with NPI</b>								
Number of provider IDs with NPI	51,974	44,928	47,415	-13.56	5.54	30%(+/-)	Yes	Yes
% NPI source = MSIS	99.1	99.4	99.5	0.34	0.12	30%(+/-)	Yes	Yes
% NPI source = NPPES	0.9	0.6	0.5	-36.86	-20.80	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
<b>Provider IDs Linked to NPPES</b>								
Number of provider IDs linked to NPPES	51,395	44,712	47,200	-13.00	5.56	30%(+/-)	Yes	Yes
% linked via NPI	99.1	99.4	99.5	0.35	0.12	30%(+/-)	Yes	Yes
% linked via Medicaid legacy provider ID	0.9	0.6	0.4	-39.05	-22.43	30%(+/-)	Yes	Yes
% linked via Medicare UPIN	0.0	0.0	0.0	819.57	30.25	30%(+/-)	Yes	Yes
% with name prefix	38.7	34.4	34.3	-11.14	-0.31	30%(+/-)	Yes	Yes
% with first name	82.6	76.2	76.8	-7.70	0.69	30%(+/-)	Yes	Yes
% with middle name	54.8	50.7	50.8	-7.42	0.19	30%(+/-)	Yes	Yes
% with last name	82.6	76.2	76.8	-7.70	0.69	30%(+/-)	Yes	Yes
% with name suffix	1.6	1.5	1.3	-3.30	-15.45	30%(+/-)	Yes	Yes
% male	48.9	45.7	44.4	-6.35	-2.98	30%(+/-)	Yes	Yes
% female	33.7	30.5	32.4	-9.65	6.20	30%(+/-)	Yes	Yes
% with credential	79.6	73.7	74.1	-7.44	0.56	30%(+/-)	Yes	Yes
% with business name	17.4	23.4	23.1	34.35	-1.41	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 = claim file state code	69.7	70.8	72.2	1.60	1.87	30%(+/-)	Yes	Yes
% with zip code	100.0	99.6	99.8	-0.38	0.20	30%(+/-)	Yes	Yes
% with primary taxonomy	97.7	97.3	97.5	-0.35	0.23	30%(+/-)	Yes	Yes

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

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2009-2011 MAX All Provider Characteristics Validation Table

State: CT

Produced: 04/10/2013

Measure	2009 Value	2010 Value	2011 Value	% Change 2009-2010	% Change 2010-2011	Cross Year Expected Range	Cross Year 2009-2010 Within Range <sup>a</sup>	Cross Year 2010-2011 Within Range <sup>b</sup>
% with provider entity type = individual	82.6	76.2	76.8	-7.70	0.69	30%(+/-)	Yes	Yes
% with provider entity type = organization	17.4	23.4	23.1	34.35	-1.41	30%(+/-)	No	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>								
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
<b>Provider IDs with NPPES Primary Taxonomy</b>								
Number of provider IDs with NPPES primary taxonomy	50,222	43,510	46,037	-13.36	5.81	30%(+/-)	Yes	Yes
% individual or group of individuals	86.9	83.2	83.8	-4.30	0.75	30%(+/-)	Yes	Yes
% allopathic and osteopathic physicians	56.7	58.0	56.9	2.33	-1.83	30%(+/-)	Yes	Yes
% behavioral health and social service providers	3.6	4.7	5.1	32.40	8.60	30%(+/-)	Yes	Yes
% chiropractic providers	0.4	0.6	0.6	52.82	-1.13	30%(+/-)	Yes	Yes
% dental providers	5.9	4.2	4.6	-28.44	9.95	30%(+/-)	Yes	Yes
% dietary and nutritional service providers	0.1	0.0	0.0	-56.22	63.25	30%(+/-)	Yes	Yes
% emergency medical service providers	0.1	0.0	0.0	-25.53	-29.12	30%(+/-)	Yes	Yes
% eye and vision service providers	1.5	1.6	1.6	4.33	0.89	30%(+/-)	Yes	Yes
% nursing service providers	0.3	0.1	0.1	-66.15	-0.64	30%(+/-)	Yes	Yes
% nursing service-related providers	0.0	0.0	0.0	-13.43	7.11	30%(+/-)	Yes	Yes
% other service providers	2.0	2.1	2.0	5.86	-2.47	30%(+/-)	Yes	Yes
% pharmacy service providers	0.1	0.0	0.0	-60.43	-13.36	30%(+/-)	Yes	Yes
% physician assistants and advanced practice nursing providers	10.1	8.5	9.3	-15.77	8.45	30%(+/-)	Yes	Yes
% podiatric medicine and surgery service providers	0.9	0.8	1.0	-7.86	18.92	30%(+/-)	Yes	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.4	1.6	1.4	13.94	-9.73	30%(+/-)	Yes	Yes
% speech, language, and hearing service providers	0.3	0.4	0.4	14.76	7.62	30%(+/-)	Yes	Yes
% student health care	3.5	0.3	0.4	-92.49	56.97	30%(+/-)	Yes	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	0.0	73.14	-36.99	30%(+/-)	Yes	Yes
% 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	13.1	16.8	16.2	28.52	-3.71	30%(+/-)	Yes	Yes
% agencies	1.0	1.3	1.3	24.10	-0.07	30%(+/-)	Yes	Yes
% ambulatory health care facilities	2.8	1.6	1.7	-42.33	6.46	30%(+/-)	Yes	Yes
% hospital units	0.1	0.2	0.1	22.12	-14.55	30%(+/-)	Yes	Yes
% hospitals	2.1	4.0	3.8	96.55	-5.60	30%(+/-)	Yes	Yes
% laboratories	0.4	0.7	0.7	68.90	-7.86	30%(+/-)	Yes	Yes
% managed care organizations	0.0	0.0	0.0	53.90	-5.49	30%(+/-)	Yes	Yes
% nursing and custodial care facilities	1.5	1.7	1.6	12.05	-6.52	30%(+/-)	Yes	Yes
% residential treatment facilities	0.1	0.1	0.1	19.95	1.64	30%(+/-)	Yes	Yes
% respite care facility	0.0	0.0	0.0	84.68	-5.49	30%(+/-)	Yes	Yes
% suppliers	4.2	6.0	5.8	42.33	-3.75	30%(+/-)	Yes	Yes
% transportation services	0.8	1.2	1.1	41.77	-7.12	30%(+/-)	Yes	Yes
% nonmedical	0.0	0.0	0.0	Div by 0	Div by 0	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>								
Number of provider IDs with entity type = individual	42,451	34,087	36,232	-19.70	6.29	30%(+/-)	Yes	Yes
% a sole proprietorship	19.1	16.4	16.9	-14.25	3.23	30%(+/-)	Yes	Yes
% not a sole proprietorship	70.4	75.6	75.7	7.29	0.18	30%(+/-)	Yes	Yes
% not answered	10.5	8.1	7.4	-23.08	-8.22	N/A	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>								
Number of provider IDs with entity type = organization	8,944	10,454	10,880	16.88	4.07	30%(+/-)	Yes	Yes
% organization is a subpart	8.1	8.7	8.9	7.45	2.86	30%(+/-)	Yes	Yes
% organization is not a subpart	65.7	72.2	72.3	9.83	0.17	30%(+/-)	Yes	Yes
% not answered	26.2	19.1	18.8	-26.97	-1.95	N/A	N/A	N/A

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

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