Medicaid Analytic Extract Provider Characteristics (MAXPC)

State-Specific Validation Tables, 2010

Connecticut

May 31, 2013

Deo Bencio
Mei-ling Mason

MATHEMATICA
Policy Research

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(MAXPC)**

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ACRONYMS

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

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INTRODUCTION

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

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

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

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

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

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

The primary source of data used in the MAXPC 2010 files were the MSIS Valid claims files. The following measures in the MAXPC file were derived from original, unadjusted claims:

- Number of IP Claims for Provider

- Number of Beneficiaries with IP Claims for Provider

- Number of LT Claims for Provider

- Number of Beneficiaries with LT Claims for Provider

- Number of OT Claims for Provider

- Number of Beneficiaries with OT Claims for Provider

- Number of RX Claims for provider

- Number of Beneficiaries with RX Claims for Provider.

2009-2010 MAX IP Billing Provider Characteristics Validation Table
State: CT
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
IP Providers					
Number of provider IDs	681	770	13.07	30% (+/-)	Yes
% billing provider on IP claim	50.1	50.1	0.11	N/A	N/A
% NPI billing provider on IP claim	49.9	49.9	-0.11	N/A	N/A
% also a provider on LT claim	0.3	0.5	76.53	N/A	N/A
% also a provider on OT claim	30.0	39.7	32.66	N/A	N/A
% also a provider on RX claim	0.4	0.3	-41.04	N/A	N/A
% provider IDs with NPI	99.6	99.9	0.31	30% (+/-)	Yes
% provider IDs linked to NPPES	99.6	99.9	0.31	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of IP claims	786.2	600.3	-23.65	30% (+/-)	Yes
average number of beneficiaries with IP claims	403.6	352.1	-12.75	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	678	769	13.42	30% (+/-)	Yes
% NPI source = MSIS	100.0	100.0	0.00	30% (+/-)	Yes
% NPI source = NPPES	0.0	0.0	Div by 0	30% (+/-)	N/A
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	678	769	13.42	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.0	0.0	Div by 0	30% (+/-)	N/A
% with first name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with middle name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with last name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.0	0.0	Div by 0	30% (+/-)	N/A
% female	0.0	0.0	Div by 0	30% (+/-)	N/A
% with credential	0.0	0.0	Div by 0	30% (+/-)	N/A
% with business name	100.0	99.7	-0.26	30% (+/-)	Yes
% with address line 1	100.0	99.7	-0.26	30% (+/-)	Yes
% with city	100.0	99.7	-0.26	30% (+/-)	Yes
% with state	100.0	99.7	-0.26	30% (+/-)	Yes
% state = IP state code	18.3	16.4	-10.41	30% (+/-)	Yes
% with zip code	100.0	99.7	-0.26	30% (+/-)	Yes
% with primary taxonomy	100.0	98.4	-1.56	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	99.7	-0.26	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	678	757	11.65	30% (+/-)	Yes
% individual or group of individuals	0.6	0.5	-10.51	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.3	0.5	78.98	30% (+/-)	Yes
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A

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

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

2009-2010 MAX IP Billing Provider Characteristics Validation Table
State: CT
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.3	0.0	-100.00	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	99.4	99.5	0.06	30% (+/-)	Yes
% agencies	0.0	0.0	Div by 0	30% (+/-)	N/A
% ambulatory health care facilities	12.8	0.3	-97.94	30% (+/-)	No
% hospital units	7.5	7.5	0.11	30% (+/-)	Yes
% hospitals	78.5	91.7	16.84	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.3	0.0	-100.00	30% (+/-)	Yes
% transportation services	0.3	0.0	-100.00	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	0	0	Div by 0	30% (+/-)	N/A
% a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not answered	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	678	767	13.13	30% (+/-)	Yes
% organization is a subpart	5.6	7.8	39.57	30% (+/-)	Yes
% organization is not a subpart	74.8	79.8	6.70	30% (+/-)	Yes
% not answered	19.6	12.4	-36.86	N/A	N/A

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

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

2009-2010 MAX LT Billing Provider Characteristics Validation Table
State: CT
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
LT Providers					
Number of provider IDs	800	793	-0.88	30% (+/-)	Yes
% billing provider on LT claim	50.9	51.1	0.39	N/A	N/A
% NPI billing provider on LT claim	49.1	48.9	-0.40	N/A	N/A
% also a provider on IP claim	0.3	0.5	101.60	N/A	N/A
% also a provider on OT claim	1.3	1.4	10.96	N/A	N/A
% also a provider on RX claim	1.0	0.4	-62.20	N/A	N/A
% provider IDs with NPI	99.1	99.9	0.76	30% (+/-)	Yes
% provider IDs linked to NPPES	99.1	99.9	0.76	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of LT claims	758.4	751.8	-0.86	30% (+/-)	Yes
average number of beneficiaries with LT claims	86.3	87.5	1.40	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	793	792	-0.13	30% (+/-)	Yes
% NPI source = MSIS	99.0	98.4	-0.64	30% (+/-)	Yes
% NPI source = NPPES	1.0	1.6	62.64	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	793	792	-0.13	30% (+/-)	Yes
% linked via NPI	99.0	98.4	-0.64	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	1.0	1.6	62.64	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.0	0.0	Div by 0	30% (+/-)	N/A
% with first name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with middle name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with last name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.0	0.0	Div by 0	30% (+/-)	N/A
% female	0.0	0.0	Div by 0	30% (+/-)	N/A
% with credential	0.0	0.0	Div by 0	30% (+/-)	N/A
% with business name	100.0	100.0	0.00	30% (+/-)	Yes
% with address line 1	100.0	100.0	0.00	30% (+/-)	Yes
% with city	100.0	100.0	0.00	30% (+/-)	Yes
% with state	100.0	100.0	0.00	30% (+/-)	Yes
% state = LT state code	95.2	94.7	-0.54	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	99.4	98.0	-1.40	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	100.0	0.00	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	788	776	-1.52	30% (+/-)	Yes
% individual or group of individuals	0.0	0.0	Div by 0	30% (+/-)	N/A
% allopathic and osteopathic physicians	0.0	0.0	Div by 0	30% (+/-)	N/A
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A

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

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

2009-2010 MAX LT Billing Provider Characteristics Validation Table
State: CT
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	100.0	100.0	0.00	30% (+/-)	Yes
% agencies	1.3	1.5	21.83	30% (+/-)	Yes
% ambulatory health care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospital units	0.8	0.5	-32.33	30% (+/-)	Yes
% hospitals	6.5	6.8	5.53	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	91.2	90.9	-0.43	30% (+/-)	Yes
% residential treatment facilities	0.3	0.3	1.57	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.0	0.0	Div by 0	30% (+/-)	N/A
% transportation services	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	0	0	Div by 0	30% (+/-)	N/A
% a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not answered	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	793	792	-0.13	30% (+/-)	Yes
% organization is a subpart	6.1	8.6	41.85	30% (+/-)	Yes
% organization is not a subpart	45.6	51.8	13.40	30% (+/-)	Yes
% not answered	48.3	39.6	-17.91	N/A	N/A

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

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

2009-2010 MAX OT Servicing Provider Characteristics Validation Table
State: CT
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
OT Providers					
Number of provider IDs	40,741	48,371	18.73	30% (+/-)	Yes
% billing provider on OT claim	21.0	24.0	13.91	N/A	N/A
% servicing provider on OT claim	56.0	56.1	0.21	N/A	N/A
% NPI servicing provider on OT claim	44.0	43.9	-0.27	N/A	N/A
% also a provider on IP claim	0.5	0.6	20.96	N/A	N/A
% also a provider on LT claim	0.0	0.0	-8.00	N/A	N/A
% also a provider on RX claim	26.5	25.4	-4.18	N/A	N/A
% provider IDs with NPI	86.5	88.0	1.67	30% (+/-)	Yes
% provider IDs linked to NPPES	85.6	87.5	2.21	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of OT claims	1,158.3	1,191.8	2.89	30% (+/-)	Yes
average number of beneficiaries with OT claims	138.2	158.4	14.63	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	35,244	42,543	20.71	30% (+/-)	Yes
% NPI source = MSIS	99.4	99.7	0.35	30% (+/-)	Yes
% NPI source = NPPES	0.6	0.3	-56.38	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	34,879	42,327	21.35	30% (+/-)	Yes
% linked via NPI	99.4	99.7	0.36	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.6	0.3	-56.96	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	35.5	36.2	2.14	30% (+/-)	Yes
% with first name	80.8	80.4	-0.50	30% (+/-)	Yes
% with middle name	53.1	53.5	0.62	30% (+/-)	Yes
% with last name	80.8	80.4	-0.50	30% (+/-)	Yes
% with name suffix	1.4	1.6	14.73	30% (+/-)	Yes
% male	49.1	48.2	-1.69	30% (+/-)	Yes
% female	31.7	32.1	1.35	30% (+/-)	Yes
% with credential	78.0	77.7	-0.36	30% (+/-)	Yes
% with business name	19.2	19.3	0.17	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.37	30% (+/-)	Yes
% with city	100.0	99.6	-0.37	30% (+/-)	Yes
% with state	100.0	99.6	-0.37	30% (+/-)	Yes
% state = OT state code	77.3	71.1	-8.05	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.37	30% (+/-)	Yes
% with primary taxonomy	97.5	97.3	-0.16	30% (+/-)	Yes
% with provider entity type = individual	80.8	80.4	-0.50	30% (+/-)	Yes
% with provider entity type = organization	19.2	19.3	0.17	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	34,034	41,196	21.04	30% (+/-)	Yes
% individual or group of individuals	86.5	87.5	1.09	30% (+/-)	Yes
% allopathic and osteopathic physicians	62.0	61.1	-1.41	30% (+/-)	Yes

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

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

2009-2010 MAX OT Servicing Provider Characteristics Validation Table
State: CT
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% behavioral health and social service providers	4.4	5.0	13.23	30% (+/-)	Yes
% chiropractic providers	0.5	0.7	35.64	30% (+/-)	Yes
% dental providers	4.3	4.4	3.09	30% (+/-)	Yes
% dietary and nutritional service providers	0.1	0.0	-51.79	30% (+/-)	Yes
% emergency medical service providers	0.0	0.0	133.33	30% (+/-)	Yes
% eye and vision service providers	1.8	1.7	-5.81	30% (+/-)	Yes
% nursing service providers	0.2	0.1	-39.10	30% (+/-)	Yes
% nursing service-related providers	0.1	0.0	-38.98	30% (+/-)	Yes
% other service providers	1.7	2.2	26.38	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	144.44	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	8.3	9.0	8.41	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.9	0.9	1.74	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.7	1.7	-4.46	30% (+/-)	Yes
% speech, language, and hearing service providers	0.3	0.3	-0.63	30% (+/-)	Yes
% student health care	0.3	0.3	0.00	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	150.00	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	13.5	12.5	-6.99	30% (+/-)	Yes
% agencies	1.4	1.3	-10.01	30% (+/-)	Yes
% ambulatory health care facilities	3.7	1.6	-56.37	30% (+/-)	Yes
% hospital units	0.1	0.1	4.55	30% (+/-)	Yes
% hospitals	1.4	3.1	115.24	30% (+/-)	Yes
% laboratories	0.6	0.8	21.89	30% (+/-)	Yes
% managed care organizations	0.0	0.0	26.67	30% (+/-)	Yes
% nursing and custodial care facilities	0.1	0.1	-20.25	30% (+/-)	Yes
% residential treatment facilities	0.1	0.1	-5.56	30% (+/-)	Yes
% respite care facility	0.0	0.0	26.67	30% (+/-)	Yes
% suppliers	4.7	4.2	-11.32	30% (+/-)	Yes
% transportation services	1.2	1.3	1.93	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	28,171	34,017	20.75	30% (+/-)	Yes
% a sole proprietorship	15.3	16.3	6.84	30% (+/-)	Yes
% not a sole proprietorship	73.3	75.6	3.18	30% (+/-)	Yes
% not answered	11.4	8.1	-29.52	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	6,708	8,154	21.56	30% (+/-)	Yes
% organization is a subpart	8.3	7.8	-6.08	30% (+/-)	Yes
% organization is not a subpart	67.2	73.3	8.98	30% (+/-)	Yes
% not answered	24.5	18.9	-22.60	N/A	N/A

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

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

2009-2010 MAX OT Billing Provider Characteristics Validation Table
State: CT
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
OT Providers					
Number of provider IDs	10,279	14,333	39.44	30% (+/-)	No
% billing provider on OT claim	100.0	100.0	0.00	N/A	N/A
% servicing provider on OT claim	83.4	80.9	-3.01	N/A	N/A
% NPI servicing provider on OT claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on IP claim	0.5	0.4	-20.99	N/A	N/A
% also a provider on LT claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on RX claim	5.4	5.8	6.54	N/A	N/A
% provider IDs with NPI	78.7	80.1	1.71	30% (+/-)	Yes
% provider IDs linked to NPPES	78.5	80.0	1.93	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of OT claims	3,014.8	2,634.2	-12.62	30% (+/-)	Yes
average number of beneficiaries with OT claims	316.5	301.1	-4.85	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	8,090	11,474	41.83	30% (+/-)	No
% NPI source = MSIS	97.2	98.4	1.27	30% (+/-)	Yes
% NPI source = NPPES	2.8	1.6	-43.30	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	8,067	11,466	42.13	30% (+/-)	No
% linked via NPI	97.1	98.4	1.27	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	2.9	1.6	-43.42	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	28.9	30.6	5.93	30% (+/-)	Yes
% with first name	60.1	64.9	8.03	30% (+/-)	Yes
% with middle name	41.5	44.5	7.25	30% (+/-)	Yes
% with last name	60.1	64.9	8.03	30% (+/-)	Yes
% with name suffix	1.2	1.3	3.37	30% (+/-)	Yes
% male	41.1	42.5	3.19	30% (+/-)	Yes
% female	19.0	22.5	18.53	30% (+/-)	Yes
% with credential	58.9	63.5	7.89	30% (+/-)	Yes
% with business name	39.9	34.7	-13.16	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.43	30% (+/-)	Yes
% with city	100.0	99.6	-0.43	30% (+/-)	Yes
% with state	100.0	99.6	-0.43	30% (+/-)	Yes
% state = OT state code	86.2	79.9	-7.36	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.43	30% (+/-)	Yes
% with primary taxonomy	98.8	96.9	-1.92	30% (+/-)	Yes
% with provider entity type = individual	60.1	64.9	8.03	30% (+/-)	Yes
% with provider entity type = organization	39.9	34.7	-13.16	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	7,982	11,111	39.20	30% (+/-)	No
% individual or group of individuals	75.6	78.4	3.73	30% (+/-)	Yes
% allopathic and osteopathic physicians	58.8	58.5	-0.45	30% (+/-)	Yes

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

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

2009-2010 MAX OT Billing Provider Characteristics Validation Table
State: CT
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% behavioral health and social service providers	3.7	3.7	1.12	30% (+/-)	Yes
% chiropractic providers	0.7	1.0	36.18	30% (+/-)	Yes
% dental providers	3.7	3.4	-8.87	30% (+/-)	Yes
% dietary and nutritional service providers	0.1	0.0	-100.00	30% (+/-)	Yes
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	2.8	2.5	-9.16	30% (+/-)	Yes
% nursing service providers	0.1	0.0	-55.00	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	-100.00	30% (+/-)	Yes
% other service providers	1.3	2.8	110.77	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	2.1	4.1	94.89	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.5	1.4	-6.22	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.6	0.5	-13.43	30% (+/-)	Yes
% speech, language, and hearing service providers	0.2	0.2	29.26	30% (+/-)	Yes
% student health care	0.1	0.1	85.71	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	24.4	21.6	-11.54	30% (+/-)	Yes
% agencies	2.4	1.9	-18.70	30% (+/-)	Yes
% ambulatory health care facilities	4.9	1.9	-62.16	30% (+/-)	Yes
% hospital units	0.2	0.2	8.00	30% (+/-)	Yes
% hospitals	2.9	5.3	79.88	30% (+/-)	Yes
% laboratories	1.2	1.4	21.77	30% (+/-)	Yes
% managed care organizations	0.0	0.0	-28.00	30% (+/-)	Yes
% nursing and custodial care facilities	0.1	0.1	-28.26	30% (+/-)	Yes
% residential treatment facilities	0.3	0.2	-30.99	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	9.8	8.3	-15.25	30% (+/-)	Yes
% transportation services	2.6	2.3	-11.31	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	4,848	7,444	53.55	30% (+/-)	No
% a sole proprietorship	24.2	22.0	-9.02	30% (+/-)	Yes
% not a sole proprietorship	62.8	69.6	10.83	30% (+/-)	Yes
% not answered	13.0	8.4	-35.49	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	3,219	3,973	23.42	30% (+/-)	Yes
% organization is a subpart	9.1	8.0	-12.04	30% (+/-)	Yes
% organization is not a subpart	68.3	74.9	9.63	30% (+/-)	Yes
% not answered	22.6	17.2	-24.20	N/A	N/A

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

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

2009-2010 MAX RX Billing Provider Characteristics Validation Table
State: CT
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
RX Providers					
Number of provider IDs	26,181	2,580	-90.15	30% (+/-)	No
% billing provider on RX claim	4.4	58.8	1,233.57	N/A	N/A
% prescribing provider on RX claim	93.5	28.6	-69.40	N/A	N/A
% NPI billing provider on RX claim	95.6	41.2	-56.94	N/A	N/A
% also a provider on IP claim	0.0	0.0	-100.00	N/A	N/A
% also a provider on LT claim	0.0	0.0	-100.00	N/A	N/A
% also a provider on OT claim	40.0	61.4	53.40	N/A	N/A
% provider IDs with NPI	98.4	100.0	1.58	30% (+/-)	Yes
% provider IDs linked to NPPES	97.5	100.0	2.55	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of RX claims	985.4	7,499.0	661.04	30% (+/-)	No
average number of beneficiaries with RX claims	88.7	609.8	587.37	30% (+/-)	No
Provider IDs with NPI					
Number of provider IDs with NPI	25,763	2,579	-89.99	30% (+/-)	No
% NPI source = MSIS	98.9	99.8	0.98	30% (+/-)	Yes
% NPI source = NPPES	1.1	0.2	-86.19	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	25,519	2,579	-89.89	30% (+/-)	No
% linked via NPI	98.9	99.8	0.99	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	1.1	0.2	-86.31	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	45.0	1.4	-96.99	30% (+/-)	No
% with first name	91.2	2.1	-97.75	30% (+/-)	No
% with middle name	61.1	1.8	-97.02	30% (+/-)	No
% with last name	91.2	2.1	-97.75	30% (+/-)	No
% with name suffix	1.9	0.0	-100.00	30% (+/-)	Yes
% male	53.4	1.3	-97.60	30% (+/-)	No
% female	37.8	0.8	-97.95	30% (+/-)	No
% with credential	88.1	1.5	-98.28	30% (+/-)	No
% with business name	8.8	96.9	999.43	30% (+/-)	No
% with address line 1	100.0	99.0	-1.01	30% (+/-)	Yes
% with city	100.0	99.0	-1.01	30% (+/-)	Yes
% with state	100.0	99.0	-1.01	30% (+/-)	Yes
% state = RX state code	68.1	83.4	22.39	30% (+/-)	Yes
% with zip code	100.0	99.0	-1.01	30% (+/-)	Yes
% with primary taxonomy	98.0	95.7	-2.40	30% (+/-)	Yes
% with provider entity type = individual	91.2	2.1	-97.75	30% (+/-)	No
% with provider entity type = organization	8.8	96.9	999.43	30% (+/-)	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	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	25,030	2,468	-90.14	30% (+/-)	No
% individual or group of individuals	91.9	3.9	-95.77	30% (+/-)	No
% allopathic and osteopathic physicians	55.5	0.2	-99.56	30% (+/-)	No

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

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

2009-2010 MAX RX Billing Provider Characteristics Validation Table
State: CT
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% behavioral health and social service providers	1.3	0.0	-100.00	30% (+/-)	Yes
% chiropractic providers	0.2	0.0	-100.00	30% (+/-)	Yes
% dental providers	8.3	0.0	-100.00	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	-100.00	30% (+/-)	Yes
% emergency medical service providers	0.1	0.0	-100.00	30% (+/-)	Yes
% eye and vision service providers	1.4	0.2	-88.73	30% (+/-)	Yes
% nursing service providers	0.4	0.0	-100.00	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	2.1	0.2	-88.39	30% (+/-)	Yes
% pharmacy service providers	0.1	0.4	227.94	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	13.7	0.0	-100.00	30% (+/-)	No
% podiatric medicine and surgery service providers	1.1	0.2	-85.73	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.5	0.2	-55.77	30% (+/-)	Yes
% speech, language, and hearing service providers	0.3	2.4	641.16	30% (+/-)	Yes
% student health care	6.8	0.0	-100.00	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	-100.00	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	8.1	96.1	1,089.77	30% (+/-)	No
% agencies	0.1	0.1	-3.57	30% (+/-)	Yes
% ambulatory health care facilities	0.9	0.1	-90.66	30% (+/-)	Yes
% hospital units	0.0	0.0	-100.00	30% (+/-)	Yes
% hospitals	0.6	0.0	-100.00	30% (+/-)	Yes
% laboratories	0.0	0.0	-100.00	30% (+/-)	Yes
% managed care organizations	0.0	0.0	-100.00	30% (+/-)	Yes
% nursing and custodial care facilities	0.1	0.1	44.64	30% (+/-)	Yes
% residential treatment facilities	0.0	0.0	-100.00	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	6.4	95.9	1,396.99	30% (+/-)	No
% transportation services	0.0	0.0	-100.00	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	23,269	53	-99.77	30% (+/-)	No
% a sole proprietorship	22.5	49.1	118.47	30% (+/-)	No
% not a sole proprietorship	68.3	50.9	-25.44	30% (+/-)	Yes
% not answered	9.2	0.0	-100.00	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	2,250	2,500	11.11	30% (+/-)	Yes
% organization is a subpart	13.5	17.5	30.10	30% (+/-)	No
% organization is not a subpart	67.8	74.9	10.41	30% (+/-)	Yes
% not answered	18.7	7.6	-59.38	N/A	N/A

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

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

2009-2010 MAX RX Prescribing Provider Characteristics Validation Table
State: CT
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
RX Providers					
Number of provider IDs	26,993	29,269	8.43	30% (+/-)	Yes
% billing provider on RX claim	0.0	0.0	-100.00	N/A	N/A
% prescribing provider on RX claim	100.0	100.0	0.00	N/A	N/A
% NPI billing provider on RX claim	90.7	2.5	-97.22	N/A	N/A
% also a provider on IP claim	0.0	0.0	-36.36	N/A	N/A
% also a provider on LT claim	0.0	0.0	-66.67	N/A	N/A
% also a provider on OT claim	36.4	38.6	5.94	N/A	N/A
% provider IDs with NPI	91.8	39.1	-57.37	30% (+/-)	No
% provider IDs linked to NPPES	90.9	39.1	-56.96	30% (+/-)	No
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of RX claims	584.2	589.6	0.93	30% (+/-)	Yes
average number of beneficiaries with RX claims	53.8	74.3	38.19	30% (+/-)	No
Provider IDs with NPI					
Number of provider IDs with NPI	24,775	11,452	-53.78	30% (+/-)	No
% NPI source = MSIS	100.0	99.8	-0.24	30% (+/-)	Yes
% NPI source = NPPES	0.0	0.2	2,950.00	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	24,537	11,452	-53.33	30% (+/-)	No
% linked via NPI	100.0	99.8	-0.24	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.2	4,475.00	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.1	1,425.00	30% (+/-)	Yes
% with name prefix	47.3	41.7	-11.75	30% (+/-)	Yes
% with first name	95.9	91.9	-4.13	30% (+/-)	Yes
% with middle name	64.2	61.3	-4.53	30% (+/-)	Yes
% with last name	95.9	91.9	-4.13	30% (+/-)	Yes
% with name suffix	2.0	1.7	-13.68	30% (+/-)	Yes
% male	56.0	56.0	-0.09	30% (+/-)	Yes
% female	39.8	35.9	-9.82	30% (+/-)	Yes
% with credential	92.6	89.6	-3.27	30% (+/-)	Yes
% with business name	4.1	7.7	86.26	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.38	30% (+/-)	Yes
% with city	100.0	99.6	-0.38	30% (+/-)	Yes
% with state	100.0	99.6	-0.38	30% (+/-)	Yes
% state = RX state code	67.2	86.8	29.18	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.38	30% (+/-)	Yes
% with primary taxonomy	98.0	97.6	-0.40	30% (+/-)	Yes
% with provider entity type = individual	95.9	91.9	-4.13	30% (+/-)	Yes
% with provider entity type = organization	4.1	7.7	86.26	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	24,059	11,181	-53.53	30% (+/-)	No
% individual or group of individuals	96.6	93.4	-3.30	30% (+/-)	Yes
% allopathic and osteopathic physicians	58.5	65.8	12.57	30% (+/-)	Yes

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

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

2009-2010 MAX RX Prescribing Provider Characteristics Validation Table
State: CT
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% behavioral health and social service providers	1.4	0.3	-78.83	30% (+/-)	Yes
% chiropractic providers	0.2	0.0	-75.94	30% (+/-)	Yes
% dental providers	8.8	6.9	-21.50	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	-100.00	30% (+/-)	Yes
% emergency medical service providers	0.1	0.0	-76.72	30% (+/-)	Yes
% eye and vision service providers	1.5	2.0	35.48	30% (+/-)	Yes
% nursing service providers	0.4	0.1	-78.35	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	2.2	2.3	7.77	30% (+/-)	Yes
% pharmacy service providers	0.1	0.0	-79.70	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	14.5	13.8	-4.68	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.2	1.3	11.82	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.5	0.1	-69.83	30% (+/-)	Yes
% speech, language, and hearing service providers	0.2	0.3	24.07	30% (+/-)	Yes
% student health care	7.1	0.3	-95.33	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	12.50	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	3.4	6.6	92.96	30% (+/-)	Yes
% agencies	0.1	0.1	-3.61	30% (+/-)	Yes
% ambulatory health care facilities	0.9	0.4	-56.23	30% (+/-)	Yes
% hospital units	0.0	0.0	-100.00	30% (+/-)	Yes
% hospitals	0.6	0.1	-79.54	30% (+/-)	Yes
% laboratories	0.0	0.0	-6.90	30% (+/-)	Yes
% managed care organizations	0.0	0.0	12.50	30% (+/-)	Yes
% nursing and custodial care facilities	0.1	0.0	-83.33	30% (+/-)	Yes
% residential treatment facilities	0.0	0.0	-57.14	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	1.6	5.9	260.05	30% (+/-)	Yes
% transportation services	0.0	0.0	58.82	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	23,519	10,523	-55.26	30% (+/-)	No
% a sole proprietorship	22.3	16.5	-26.16	30% (+/-)	Yes
% not a sole proprietorship	68.5	76.7	12.00	30% (+/-)	Yes
% not answered	9.2	6.8	-25.88	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	1,018	885	-13.06	30% (+/-)	Yes
% organization is a subpart	6.6	14.1	114.59	30% (+/-)	No
% organization is not a subpart	62.3	73.6	18.11	30% (+/-)	Yes
% not answered	31.1	12.3	-60.45	N/A	N/A

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

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2009-2010 MAX All Provider Characteristics Validation Table
State: CT
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
All Providers					
Number of provider IDs	61,625	71,199	15.54	30%(+/-)	Yes
% billing provider on IP claim	0.6	0.5	-1.99	N/A	N/A
% NPI billing provider on IP claim	0.6	0.5	-2.36	N/A	N/A
% billing provider on LT claim	0.7	0.6	-13.79	N/A	N/A
% NPI billing provider on LT claim	0.6	0.5	-14.58	N/A	N/A
% billing provider on OT claim	16.7	20.1	20.69	N/A	N/A
% servicing provider on OT claim	37.0	38.1	2.98	N/A	N/A
% NPI servicing provider on OT claim	29.1	29.8	2.48	N/A	N/A
% billing provider on RX claim	1.9	2.1	13.77	N/A	N/A
% prescribing provider on RX claim	43.8	41.1	-6.15	N/A	N/A
% NPI billing provider on RX claim	40.6	1.5	-96.33	N/A	N/A
% billing provider	18.8	22.1	17.84	N/A	N/A
% NPI billing provider	41.8	2.6	-93.85	N/A	N/A
% servicing provider	37.0	38.1	2.98	N/A	N/A
% NPI servicing provider	29.1	29.8	2.48	N/A	N/A
% prescribing provider	43.8	41.1	-6.15	N/A	N/A
% provider IDs with NPI	84.3	63.1	-25.18	30%(+/-)	Yes
% provider IDs linked to NPPES	83.4	62.8	-24.70	30%(+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of claims	1,394.3	1,424.1	2.14	30%(+/-)	Yes
average number of beneficiaries with claims	143.6	162.3	13.06	30%(+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	51,974	44,928	-13.56	30%(+/-)	Yes
% NPI source = MSIS	99.1	99.4	0.34	30%(+/-)	Yes
% NPI source = NPPES	0.9	0.6	-36.90	30%(+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	51,395	44,712	-13.00	30%(+/-)	Yes
% linked via NPI	99.1	99.4	0.35	30%(+/-)	Yes
% linked via Medicaid legacy provider ID	0.9	0.6	-39.06	30%(+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	800.00	30%(+/-)	Yes
% with name prefix	38.7	34.4	-11.14	30%(+/-)	Yes
% with first name	82.6	76.2	-7.70	30%(+/-)	Yes
% with middle name	54.8	50.7	-7.41	30%(+/-)	Yes
% with last name	82.6	76.2	-7.70	30%(+/-)	Yes
% with name suffix	1.6	1.5	-3.32	30%(+/-)	Yes
% male	48.9	45.7	-6.35	30%(+/-)	Yes
% female	33.7	30.5	-9.65	30%(+/-)	Yes
% with credential	79.6	73.7	-7.44	30%(+/-)	Yes
% with business name	17.4	23.4	34.36	30%(+/-)	No
% with address line 1	100.0	99.6	-0.38	30%(+/-)	Yes
% with city	100.0	99.6	-0.38	30%(+/-)	Yes
% with state	100.0	99.6	-0.38	30%(+/-)	Yes
% state = claim file state code	69.7	70.8	1.60	30%(+/-)	Yes
% with zip code	100.0	99.6	-0.38	30%(+/-)	Yes

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

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2009-2010 MAX All Provider Characteristics Validation Table
State: CT
Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% with primary taxonomy	97.7	97.3	-0.35	30%(+/-)	Yes
% with provider entity type = individual	82.6	76.2	-7.70	30%(+/-)	Yes
% with provider entity type = organization	17.4	23.4	34.36	30%(+/-)	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	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	50,222	43,510	-13.36	30%(+/-)	Yes
% individual or group of individuals	86.9	83.2	-4.30	30%(+/-)	Yes
% allopathic and osteopathic physicians	56.7	58.0	2.33	30%(+/-)	Yes
% behavioral health and social service providers	3.6	4.7	32.40	30%(+/-)	Yes
% chiropractic providers	0.4	0.6	52.83	30%(+/-)	Yes
% dental providers	5.9	4.2	-28.44	30%(+/-)	Yes
% dietary and nutritional service providers	0.1	0.0	-56.90	30%(+/-)	Yes
% emergency medical service providers	0.1	0.0	-25.81	30%(+/-)	Yes
% eye and vision service providers	1.5	1.6	4.37	30%(+/-)	Yes
% nursing service providers	0.3	0.1	-66.04	30%(+/-)	Yes
% nursing service-related providers	0.0	0.0	-15.00	30%(+/-)	Yes
% other service providers	2.0	2.1	5.89	30%(+/-)	Yes
% pharmacy service providers	0.1	0.0	-60.00	30%(+/-)	Yes
% physician assistants and advanced practice nursing providers	10.1	8.5	-15.77	30%(+/-)	Yes
% podiatric medicine and surgery service providers	0.9	0.8	-7.82	30%(+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.4	1.6	13.92	30%(+/-)	Yes
% speech, language, and hearing service providers	0.3	0.4	15.03	30%(+/-)	Yes
% student health care	3.5	0.3	-92.50	30%(+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	75.00	30%(+/-)	Yes
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30%(+/-)	N/A
% nonindividuals	13.1	16.8	28.52	30%(+/-)	Yes
% agencies	1.0	1.3	24.10	30%(+/-)	Yes
% ambulatory health care facilities	2.8	1.6	-42.32	30%(+/-)	Yes
% hospital units	0.1	0.2	22.63	30%(+/-)	Yes
% hospitals	2.1	4.0	96.55	30%(+/-)	Yes
% laboratories	0.4	0.7	68.89	30%(+/-)	Yes
% managed care organizations	0.0	0.0	50.00	30%(+/-)	Yes
% nursing and custodial care facilities	1.5	1.7	12.07	30%(+/-)	Yes
% residential treatment facilities	0.1	0.1	19.61	30%(+/-)	Yes
% respite care facility	0.0	0.0	80.00	30%(+/-)	Yes
% suppliers	4.2	6.0	42.35	30%(+/-)	Yes
% transportation services	0.8	1.2	41.84	30%(+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	42,451	34,087	-19.70	30%(+/-)	Yes
% a sole proprietorship	19.1	16.4	-14.25	30%(+/-)	Yes
% not a sole proprietorship	70.4	75.6	7.29	30%(+/-)	Yes
% not answered	10.5	8.1	-23.08	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	8,944	10,454	16.88	30%(+/-)	Yes
% organization is a subpart	8.1	8.7	7.45	30%(+/-)	Yes
% organization is not a subpart	65.7	72.2	9.83	30%(+/-)	Yes
% not answered	26.2	19.1	-26.97	N/A	N/A

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

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