Medicaid Analytic Extract Provider Characteristics (MAXPC)

State-Specific Validation Tables, 2010

Rhode Island

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

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: RI
Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
IP Providers					
Number of provider IDs	1,149	1,184	3.05	30% (+/-)	Yes
% billing provider on IP claim	100.0	100.0	0.00	N/A	N/A
% NPI billing provider on IP claim	4.5	4.9	8.24	N/A	N/A
% also a provider on LT claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on OT claim	88.3	88.9	0.68	N/A	N/A
% also a provider on RX claim	1.3	1.3	-2.91	N/A	N/A
% provider IDs with NPI	6.2	6.6	6.62	30% (+/-)	Yes
% provider IDs linked to NPPES	6.2	6.6	6.62	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	101.2	82.6	-18.39	30% (+/-)	Yes
average number of beneficiaries with IP claims	41.9	37.3	-11.12	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	71	78	9.86	30% (+/-)	Yes
% NPI source = MSIS	73.2	74.4	1.53	30% (+/-)	Yes
% NPI source = NPPES	26.8	25.6	-4.19	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	71	78	9.86	30% (+/-)	Yes
% linked via NPI	73.2	74.4	1.53	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	4.2	5.1	21.37	30% (+/-)	Yes
% linked via Medicare UPIN	22.5	20.5	-8.97	30% (+/-)	Yes
% with name prefix	8.5	3.8	-54.49	30% (+/-)	Yes
% with first name	16.9	11.5	-31.73	30% (+/-)	No
% with middle name	14.1	6.4	-54.49	30% (+/-)	No
% with last name	16.9	11.5	-31.73	30% (+/-)	No
% with name suffix	1.4	0.0	-100.00	30% (+/-)	Yes
% male	9.9	6.4	-34.98	30% (+/-)	Yes
% female	7.0	5.1	-27.18	30% (+/-)	Yes
% with credential	16.9	11.5	-31.73	30% (+/-)	No
% with business name	83.1	88.5	6.45	30% (+/-)	Yes
% with address line 1	100.0	100.0	0.00	30% (+/-)	Yes
% with city	100.0	100.0	0.00	30% (+/-)	Yes
% with state	100.0	100.0	0.00	30% (+/-)	Yes
% state = IP state code	26.8	25.6	-4.19	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	98.6	98.7	0.13	30% (+/-)	Yes
% with provider entity type = individual	16.9	11.5	-31.73	30% (+/-)	No
% with provider entity type = organization	83.1	88.5	6.45	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	70	77	10.00	30% (+/-)	Yes
% individual or group of individuals	18.6	16.9	-9.09	30% (+/-)	Yes
% allopathic and osteopathic physicians	7.1	7.8	9.09	30% (+/-)	Yes
% behavioral health and social service providers	1.4	3.9	172.64	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 IP Billing Provider Characteristics Validation Table
State: RI
Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% chiropractic providers	1.4	1.3	-9.10	30% (+/-)	Yes
% dental providers	1.4	0.0	-100.00	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	1.3	Div by 0	30% (+/-)	N/A
% eye and vision service providers	1.4	1.3	-9.10	30% (+/-)	Yes
% 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	2.9	0.0	-100.00	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	2.9	1.3	-54.53	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	81.4	83.1	2.07	30% (+/-)	Yes
% agencies	1.4	2.6	81.74	30% (+/-)	Yes
% ambulatory health care facilities	0.0	1.3	Div by 0	30% (+/-)	N/A
% hospital units	7.1	5.2	-27.27	30% (+/-)	Yes
% hospitals	72.9	74.0	1.60	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	0.0	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	12	9	-25.00	30% (+/-)	Yes
% a sole proprietorship	33.3	22.2	-33.33	30% (+/-)	No
% not a sole proprietorship	66.7	77.8	16.67	30% (+/-)	Yes
% 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	59	69	16.95	30% (+/-)	Yes
% organization is a subpart	8.5	14.5	71.01	30% (+/-)	No
% organization is not a subpart	78.0	72.5	-7.06	30% (+/-)	Yes
% not answered	13.6	13.0	-3.81	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: RI
Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
LT Providers					
Number of provider IDs	324	310	-4.32	30% (+/-)	Yes
% billing provider on LT claim	100.0	100.0	0.00	N/A	N/A
% NPI billing provider on LT claim	31.5	94.8	201.26	N/A	N/A
% also a provider on IP claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on OT claim	4.0	3.5	-11.57	N/A	N/A
% also a provider on RX claim	1.5	0.3	-79.07	N/A	N/A
% provider IDs with NPI	34.6	97.7	182.75	30% (+/-)	No
% provider IDs linked to NPPES	34.6	97.7	182.75	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 LT claims	289.0	293.2	1.46	30% (+/-)	Yes
average number of beneficiaries with LT claims	33.8	34.9	3.23	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	112	303	170.54	30% (+/-)	No
% NPI source = MSIS	94.6	97.0	2.52	30% (+/-)	Yes
% NPI source = NPPES	5.4	3.0	-44.56	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	112	303	170.54	30% (+/-)	No
% linked via NPI	94.6	97.0	2.52	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	5.4	3.0	-44.56	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	0.9	0.3	-63.05	30% (+/-)	Yes
% with middle name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with last name	0.9	0.3	-63.05	30% (+/-)	Yes
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.0	0.0	Div by 0	30% (+/-)	N/A
% female	0.9	0.3	-63.05	30% (+/-)	Yes
% with credential	0.9	0.3	-63.05	30% (+/-)	Yes
% with business name	99.1	99.7	0.57	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	94.6	98.4	3.92	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	99.1	98.0	-1.10	30% (+/-)	Yes
% with provider entity type = individual	0.9	0.3	-63.05	30% (+/-)	Yes
% with provider entity type = organization	99.1	99.7	0.57	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	111	297	167.57	30% (+/-)	No
% individual or group of individuals	1.8	0.7	-62.65	30% (+/-)	Yes
% 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: RI
Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.9	0.3	-62.60	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	0.9	0.3	-62.60	30% (+/-)	Yes
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	98.2	99.3	1.15	30% (+/-)	Yes
% agencies	0.0	2.0	Div by 0	30% (+/-)	N/A
% ambulatory health care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	4.5	1.3	-70.10	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	80.2	46.1	-42.47	30% (+/-)	No
% residential treatment facilities	10.8	48.8	351.60	30% (+/-)	No
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	2.7	1.0	-62.63	30% (+/-)	Yes
% transportation services	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	1	1	0.00	30% (+/-)	Yes
% a sole proprietorship	100.0	100.0	0.00	30% (+/-)	Yes
% 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	111	302	172.07	30% (+/-)	No
% organization is a subpart	5.4	3.0	-44.87	30% (+/-)	Yes
% organization is not a subpart	52.3	26.5	-49.30	30% (+/-)	No
% not answered	42.3	70.5	66.57	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: RI
Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
OT Providers					
Number of provider IDs	9,786	13,909	42.13	30% (+/-)	No
% billing provider on OT claim	52.2	42.0	-19.47	N/A	N/A
% servicing provider on OT claim	100.0	100.0	-0.01	N/A	N/A
% NPI servicing provider on OT claim	35.1	55.9	59.36	N/A	N/A
% also a provider on IP claim	8.8	6.3	-28.75	N/A	N/A
% also a provider on LT claim	0.1	0.1	0.00	N/A	N/A
% also a provider on RX claim	23.7	28.1	18.19	N/A	N/A
% provider IDs with NPI	36.0	56.6	57.17	30% (+/-)	No
% provider IDs linked to NPPES	35.8	55.4	54.61	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 OT claims	788.4	466.2	-40.87	30% (+/-)	No
average number of beneficiaries with OT claims	114.9	95.7	-16.74	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	3,523	7,870	123.39	30% (+/-)	No
% NPI source = MSIS	97.4	98.8	1.40	30% (+/-)	Yes
% NPI source = NPPES	2.6	1.2	-53.27	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	3,505	7,702	119.74	30% (+/-)	No
% linked via NPI	97.4	98.8	1.38	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	1.0	0.4	-59.79	30% (+/-)	Yes
% linked via Medicare UPIN	1.6	0.8	-48.00	30% (+/-)	Yes
% with name prefix	32.1	34.7	8.13	30% (+/-)	Yes
% with first name	87.4	88.4	1.10	30% (+/-)	Yes
% with middle name	58.6	60.9	3.91	30% (+/-)	Yes
% with last name	87.4	88.4	1.10	30% (+/-)	Yes
% with name suffix	2.2	2.3	6.00	30% (+/-)	Yes
% male	53.0	51.3	-3.17	30% (+/-)	Yes
% female	34.5	37.1	7.65	30% (+/-)	Yes
% with credential	84.9	86.1	1.46	30% (+/-)	Yes
% with business name	12.6	11.2	-10.95	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.42	30% (+/-)	Yes
% with city	100.0	99.6	-0.42	30% (+/-)	Yes
% with state	100.0	99.6	-0.42	30% (+/-)	Yes
% state = OT state code	85.2	66.2	-22.29	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.42	30% (+/-)	Yes
% with primary taxonomy	99.5	97.5	-2.01	30% (+/-)	Yes
% with provider entity type = individual	87.4	88.4	1.10	30% (+/-)	Yes
% with provider entity type = organization	12.6	11.2	-10.95	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	3,498	7,506	114.58	30% (+/-)	No
% individual or group of individuals	87.6	90.8	3.66	30% (+/-)	Yes
% allopathic and osteopathic physicians	63.6	63.1	-0.78	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: RI
Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% behavioral health and social service providers	6.3	7.2	14.61	30% (+/-)	Yes
% chiropractic providers	0.2	0.3	53.00	30% (+/-)	Yes
% dental providers	3.4	3.3	-4.49	30% (+/-)	Yes
% dietary and nutritional service providers	0.2	0.4	132.56	30% (+/-)	Yes
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	2.5	2.2	-13.05	30% (+/-)	Yes
% nursing service providers	1.5	1.6	1.81	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	1.7	1.6	-4.40	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	-100.00	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	5.8	8.2	41.17	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.4	1.1	-17.49	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.3	0.9	198.25	30% (+/-)	Yes
% speech, language, and hearing service providers	0.4	0.7	52.21	30% (+/-)	Yes
% student health care	0.1	0.2	67.83	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	0.1	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	12.4	9.2	-25.76	30% (+/-)	Yes
% agencies	3.9	2.6	-34.69	30% (+/-)	Yes
% ambulatory health care facilities	0.9	0.7	-25.13	30% (+/-)	Yes
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	1.4	0.3	-78.64	30% (+/-)	Yes
% laboratories	0.3	0.2	-27.24	30% (+/-)	Yes
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.5	0.4	-20.58	30% (+/-)	Yes
% residential treatment facilities	1.1	0.6	-45.28	30% (+/-)	Yes
% respite care facility	0.0	0.0	-6.90	30% (+/-)	Yes
% suppliers	3.3	3.7	11.44	30% (+/-)	Yes
% transportation services	1.0	0.8	-21.48	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	3,065	6,809	122.15	30% (+/-)	No
% a sole proprietorship	15.2	16.9	10.65	30% (+/-)	Yes
% not a sole proprietorship	74.5	74.8	0.50	30% (+/-)	Yes
% not answered	10.3	8.3	-19.37	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	440	861	95.68	30% (+/-)	No
% organization is a subpart	8.0	8.5	6.59	30% (+/-)	Yes
% organization is not a subpart	54.5	64.0	17.33	30% (+/-)	Yes
% not answered	37.5	27.5	-26.60	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: RI
Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
OT Providers					
Number of provider IDs	7,193	7,594	5.57	30% (+/-)	Yes
% billing provider on OT claim	100.0	100.0	0.00	N/A	N/A
% servicing provider on OT claim	71.0	76.9	8.39	N/A	N/A
% NPI servicing provider on OT claim	8.5	15.6	84.61	N/A	N/A
% also a provider on IP claim	14.1	13.9	-1.74	N/A	N/A
% also a provider on LT claim	0.2	0.1	-20.96	N/A	N/A
% also a provider on RX claim	9.6	8.1	-16.23	N/A	N/A
% provider IDs with NPI	10.8	18.4	69.72	30% (+/-)	No
% provider IDs linked to NPPES	10.8	18.4	70.16	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 OT claims	978.0	951.7	-2.68	30% (+/-)	Yes
average number of beneficiaries with OT claims	164.8	164.4	-0.23	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	778	1,394	79.18	30% (+/-)	No
% NPI source = MSIS	83.8	87.7	4.60	30% (+/-)	Yes
% NPI source = NPPES	16.2	12.3	-23.81	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	776	1,394	79.64	30% (+/-)	No
% linked via NPI	83.8	87.7	4.65	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	8.1	6.9	-15.17	30% (+/-)	Yes
% linked via Medicare UPIN	8.1	5.5	-32.85	30% (+/-)	Yes
% with name prefix	23.1	23.0	-0.17	30% (+/-)	Yes
% with first name	41.8	39.9	-4.47	30% (+/-)	Yes
% with middle name	33.8	32.1	-5.03	30% (+/-)	Yes
% with last name	41.8	39.9	-4.47	30% (+/-)	Yes
% with name suffix	2.1	2.4	14.79	30% (+/-)	Yes
% male	32.7	29.9	-8.61	30% (+/-)	Yes
% female	9.0	10.0	10.53	30% (+/-)	Yes
% with credential	41.0	39.0	-4.77	30% (+/-)	Yes
% with business name	58.2	59.6	2.35	30% (+/-)	Yes
% with address line 1	100.0	99.5	-0.50	30% (+/-)	Yes
% with city	100.0	99.5	-0.50	30% (+/-)	Yes
% with state	100.0	99.5	-0.50	30% (+/-)	Yes
% state = OT state code	82.7	83.6	1.10	30% (+/-)	Yes
% with zip code	100.0	99.5	-0.50	30% (+/-)	Yes
% with primary taxonomy	99.0	97.1	-1.93	30% (+/-)	Yes
% with provider entity type = individual	41.8	39.9	-4.47	30% (+/-)	Yes
% with provider entity type = organization	58.2	59.6	2.35	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	770	1,353	75.71	30% (+/-)	No
% individual or group of individuals	46.4	49.4	6.49	30% (+/-)	Yes
% allopathic and osteopathic physicians	26.1	24.5	-6.00	30% (+/-)	Yes

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

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

2009-2010 MAX OT Billing Provider Characteristics Validation Table
State: RI
Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% behavioral health and social service providers	2.9	4.1	42.28	30% (+/-)	Yes
% chiropractic providers	0.8	0.9	13.86	30% (+/-)	Yes
% dental providers	7.5	9.7	28.54	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.1	Div by 0	30% (+/-)	N/A
% eye and vision service providers	2.6	4.1	56.53	30% (+/-)	Yes
% nursing service providers	0.0	0.7	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.1	Div by 0	30% (+/-)	N/A
% other service providers	2.1	1.3	-36.00	30% (+/-)	Yes
% pharmacy service providers	0.1	0.0	-100.00	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	0.6	0.4	-42.99	30% (+/-)	Yes
% podiatric medicine and surgery service providers	2.6	2.8	8.16	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.3	0.3	13.85	30% (+/-)	Yes
% speech, language, and hearing service providers	0.4	0.4	13.59	30% (+/-)	Yes
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.1	0.0	-100.00	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.3	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	53.6	50.6	-5.61	30% (+/-)	Yes
% agencies	16.5	12.8	-22.48	30% (+/-)	Yes
% ambulatory health care facilities	3.6	4.0	9.76	30% (+/-)	Yes
% hospital units	0.1	0.1	-43.08	30% (+/-)	Yes
% hospitals	7.0	3.5	-49.41	30% (+/-)	Yes
% laboratories	1.2	1.0	-11.46	30% (+/-)	Yes
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	2.7	2.5	-7.85	30% (+/-)	Yes
% residential treatment facilities	1.8	1.3	-26.84	30% (+/-)	Yes
% respite care facility	0.1	0.2	70.77	30% (+/-)	Yes
% suppliers	15.8	20.6	30.15	30% (+/-)	No
% transportation services	4.7	4.5	-3.57	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	324	556	71.60	30% (+/-)	No
% a sole proprietorship	51.9	54.0	4.06	30% (+/-)	Yes
% not a sole proprietorship	40.4	36.7	-9.25	30% (+/-)	Yes
% not answered	7.7	9.4	21.22	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	452	831	83.85	30% (+/-)	No
% organization is a subpart	10.2	10.0	-1.86	30% (+/-)	Yes
% organization is not a subpart	58.9	65.8	11.85	30% (+/-)	Yes
% not answered	31.0	24.2	-21.91	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 RX Billing Provider Characteristics Validation Table
State: RI
Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
RX Providers					
Number of provider IDs	235	233	-0.85	30% (+/-)	Yes
% billing provider on RX claim	100.0	100.0	0.00	N/A	N/A
% prescribing provider on RX claim	53.2	17.2	-67.73	N/A	N/A
% NPI billing provider on RX claim	8.1	96.6	1,094.40	N/A	N/A
% also a provider on IP claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on LT claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on OT claim	74.9	78.1	4.30	N/A	N/A
% provider IDs with NPI	30.2	97.0	221.04	30% (+/-)	No
% provider IDs linked to NPPES	30.2	97.0	221.04	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	7,774.6	7,743.5	-0.40	30% (+/-)	Yes
average number of beneficiaries with RX claims	709.0	730.6	3.05	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	71	226	218.31	30% (+/-)	No
% NPI source = MSIS	100.0	99.6	-0.44	30% (+/-)	Yes
% NPI source = NPPES	0.0	0.4	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	71	226	218.31	30% (+/-)	No
% linked via NPI	100.0	99.6	-0.44	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.4	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	99.1	-0.89	30% (+/-)	Yes
% with address line 1	100.0	99.1	-0.89	30% (+/-)	Yes
% with city	100.0	99.1	-0.89	30% (+/-)	Yes
% with state	100.0	99.1	-0.89	30% (+/-)	Yes
% state = RX state code	98.6	86.3	-12.48	30% (+/-)	Yes
% with zip code	100.0	99.1	-0.89	30% (+/-)	Yes
% with primary taxonomy	100.0	98.7	-1.33	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	99.1	-0.89	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	71	223	214.08	30% (+/-)	No
% individual or group of individuals	1.4	2.2	59.23	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.0	0.0	Div by 0	30% (+/-)	N/A

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

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

2009-2010 MAX RX Billing Provider Characteristics Validation Table
State: RI
Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	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	1.8	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	1.4	0.4	-68.18	30% (+/-)	Yes
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	98.6	97.8	-0.85	30% (+/-)	Yes
% agencies	0.0	0.4	Div by 0	30% (+/-)	N/A
% ambulatory health care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	0.0	0.0	Div by 0	30% (+/-)	N/A
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	98.6	97.3	-1.30	30% (+/-)	Yes
% transportation services	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	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	71	224	215.49	30% (+/-)	No
% organization is a subpart	22.5	18.3	-18.78	30% (+/-)	Yes
% organization is not a subpart	74.6	79.5	6.45	30% (+/-)	Yes
% not answered	2.8	2.2	-20.77	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: RI
Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
RX Providers					
Number of provider IDs	11,658	15,880	36.22	30% (+/-)	No
% billing provider on RX claim	1.1	0.3	-76.49	N/A	N/A
% prescribing provider on RX claim	100.0	100.0	0.00	N/A	N/A
% NPI billing provider on RX claim	0.1	0.3	265.22	N/A	N/A
% also a provider on IP claim	0.1	0.1	-27.13	N/A	N/A
% also a provider on LT claim	0.0	0.0	-86.05	N/A	N/A
% also a provider on OT claim	22.8	24.2	6.16	N/A	N/A
% provider IDs with NPI	20.0	23.8	18.90	30% (+/-)	Yes
% provider IDs linked to NPPES	20.0	23.8	19.13	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	198.5	121.3	-38.88	30% (+/-)	No
average number of beneficiaries with RX claims	33.0	24.1	-26.81	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	2,337	3,785	61.96	30% (+/-)	No
% NPI source = MSIS	99.8	99.9	0.11	30% (+/-)	Yes
% NPI source = NPPES	0.2	0.1	-50.47	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	2,332	3,784	62.26	30% (+/-)	No
% linked via NPI	99.8	99.9	0.11	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.1	0.0	-69.77	30% (+/-)	Yes
% linked via Medicare UPIN	0.1	0.1	-38.76	30% (+/-)	Yes
% with name prefix	35.8	38.0	6.08	30% (+/-)	Yes
% with first name	96.5	97.7	1.29	30% (+/-)	Yes
% with middle name	65.4	67.7	3.51	30% (+/-)	Yes
% with last name	96.5	97.7	1.29	30% (+/-)	Yes
% with name suffix	2.4	2.7	15.44	30% (+/-)	Yes
% male	60.5	58.1	-3.89	30% (+/-)	Yes
% female	36.0	39.6	9.97	30% (+/-)	Yes
% with credential	94.3	95.6	1.35	30% (+/-)	Yes
% with business name	3.5	2.0	-42.89	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 = RX state code	90.1	81.3	-9.80	30% (+/-)	Yes
% with zip code	100.0	99.7	-0.26	30% (+/-)	Yes
% with primary taxonomy	99.7	98.7	-0.98	30% (+/-)	Yes
% with provider entity type = individual	96.5	97.7	1.29	30% (+/-)	Yes
% with provider entity type = organization	3.5	2.0	-42.89	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	2,328	3,734	60.40	30% (+/-)	No
% individual or group of individuals	95.1	98.1	3.13	30% (+/-)	Yes
% allopathic and osteopathic physicians	76.9	75.3	-2.15	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: RI
Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% behavioral health and social service providers	0.1	0.2	117.44	30% (+/-)	Yes
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	3.7	4.4	19.56	30% (+/-)	Yes
% 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	2.6	1.9	-26.41	30% (+/-)	Yes
% nursing service providers	0.5	0.5	-3.81	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	1.6	1.6	0.12	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	7.8	12.3	58.44	30% (+/-)	No
% podiatric medicine and surgery service providers	1.8	1.6	-13.91	30% (+/-)	Yes
% 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	0.2	0.3	102.33	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	4.9	1.9	-61.37	30% (+/-)	Yes
% agencies	0.2	0.0	-87.44	30% (+/-)	Yes
% ambulatory health care facilities	0.3	0.2	-17.05	30% (+/-)	Yes
% hospital units	0.0	0.0	-100.00	30% (+/-)	Yes
% hospitals	1.9	0.5	-74.50	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	0.1	0.0	-100.00	30% (+/-)	Yes
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	2.3	1.1	-52.67	30% (+/-)	Yes
% transportation services	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	2,250	3,698	64.36	30% (+/-)	No
% a sole proprietorship	14.7	18.4	25.36	30% (+/-)	Yes
% not a sole proprietorship	77.0	75.5	-1.88	30% (+/-)	Yes
% not answered	8.3	6.0	-27.45	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	82	76	-7.32	30% (+/-)	Yes
% organization is a subpart	14.6	10.5	-28.07	30% (+/-)	Yes
% organization is not a subpart	75.6	85.5	13.11	30% (+/-)	Yes
% not answered	9.8	3.9	-59.54	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: RI
Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
All Providers					
Number of provider IDs	21,362	28,176	31.90	30%(+/-)	No
% billing provider on IP claim	5.4	4.2	-21.88	N/A	N/A
% NPI billing provider on IP claim	0.2	0.2	-15.23	N/A	N/A
% billing provider on LT claim	1.5	1.1	-27.49	N/A	N/A
% NPI billing provider on LT claim	0.5	1.0	118.66	N/A	N/A
% billing provider on OT claim	33.7	27.0	-19.96	N/A	N/A
% servicing provider on OT claim	45.8	49.4	7.75	N/A	N/A
% NPI servicing provider on OT claim	16.1	27.6	71.73	N/A	N/A
% billing provider on RX claim	1.1	0.8	-24.82	N/A	N/A
% prescribing provider on RX claim	54.6	56.4	3.27	N/A	N/A
% NPI billing provider on RX claim	0.1	0.8	797.75	N/A	N/A
% billing provider	36.0	28.7	-20.46	N/A	N/A
% NPI billing provider	0.8	2.0	152.84	N/A	N/A
% servicing provider	45.8	49.4	7.75	N/A	N/A
% NPI servicing provider	16.1	27.6	71.73	N/A	N/A
% prescribing provider	54.6	56.4	3.27	N/A	N/A
% provider IDs with NPI	17.5	29.7	69.20	30%(+/-)	No
% provider IDs linked to NPPES	17.5	29.1	66.60	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 claims	662.7	445.2	-32.82	30%(+/-)	No
average number of beneficiaries with claims	93.1	76.4	-17.93	30%(+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	3,747	8,362	123.17	30%(+/-)	No
% NPI source = MSIS	95.9	97.6	1.79	30%(+/-)	Yes
% NPI source = NPPES	4.1	2.4	-41.80	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	3,729	8,194	119.74	30%(+/-)	No
% linked via NPI	95.9	97.6	1.76	30%(+/-)	Yes
% linked via Medicaid legacy provider ID	2.2	1.4	-35.31	30%(+/-)	Yes
% linked via Medicare UPIN	1.9	1.0	-47.43	30%(+/-)	Yes
% with name prefix	30.5	32.9	7.81	30%(+/-)	Yes
% with first name	82.8	83.6	1.00	30%(+/-)	Yes
% with middle name	55.6	57.7	3.73	30%(+/-)	Yes
% with last name	82.8	83.6	1.00	30%(+/-)	Yes
% with name suffix	2.1	2.2	8.14	30%(+/-)	Yes
% male	50.2	48.6	-3.14	30%(+/-)	Yes
% female	32.6	35.0	7.39	30%(+/-)	Yes
% with credential	80.4	81.5	1.36	30%(+/-)	Yes
% with business name	17.2	16.0	-7.07	30%(+/-)	Yes
% with address line 1	100.0	99.6	-0.39	30%(+/-)	Yes
% with city	100.0	99.6	-0.39	30%(+/-)	Yes
% with state	100.0	99.6	-0.39	30%(+/-)	Yes
% state = claim file state code	84.6	67.2	-20.54	30%(+/-)	Yes
% with zip code	100.0	99.6	-0.39	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: RI
Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% with primary taxonomy	99.5	97.5	-1.95	30%(+/-)	Yes
% with provider entity type = individual	82.8	83.6	1.00	30%(+/-)	Yes
% with provider entity type = organization	17.2	16.0	-7.07	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	3,721	7,991	114.75	30%(+/-)	No
% individual or group of individuals	83.1	86.0	3.52	30%(+/-)	Yes
% allopathic and osteopathic physicians	59.9	59.5	-0.73	30%(+/-)	Yes
% behavioral health and social service providers	5.9	6.8	14.73	30%(+/-)	Yes
% chiropractic providers	0.2	0.3	45.58	30%(+/-)	Yes
% dental providers	3.6	3.4	-5.47	30%(+/-)	Yes
% dietary and nutritional service providers	0.2	0.4	132.92	30%(+/-)	Yes
% emergency medical service providers	0.0	0.0	Div by 0	30%(+/-)	N/A
% eye and vision service providers	2.4	2.1	-13.53	30%(+/-)	Yes
% nursing service providers	1.5	1.5	1.79	30%(+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30%(+/-)	N/A
% other service providers	1.6	1.5	-4.54	30%(+/-)	Yes
% pharmacy service providers	0.0	0.1	85.19	30%(+/-)	Yes
% physician assistants and advanced practice nursing providers	5.5	7.7	39.70	30%(+/-)	Yes
% podiatric medicine and surgery service providers	1.3	1.1	-17.52	30%(+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.3	0.8	174.66	30%(+/-)	Yes
% speech, language, and hearing service providers	0.4	0.6	52.11	30%(+/-)	Yes
% student health care	0.1	0.2	67.91	30%(+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	-7.41	30%(+/-)	Yes
% group of individuals with multi- or single specialty	0.1	0.0	-100.00	30%(+/-)	Yes
% nonindividuals	16.9	14.0	-17.29	30%(+/-)	Yes
% agencies	4.0	2.6	-33.81	30%(+/-)	Yes
% ambulatory health care facilities	1.0	0.8	-25.27	30%(+/-)	Yes
% hospital units	0.1	0.1	-62.69	30%(+/-)	Yes
% hospitals	2.8	1.0	-65.64	30%(+/-)	Yes
% laboratories	0.2	0.2	-22.31	30%(+/-)	Yes
% managed care organizations	0.0	0.0	Div by 0	30%(+/-)	N/A
% nursing and custodial care facilities	2.9	2.1	-26.71	30%(+/-)	Yes
% residential treatment facilities	1.4	2.4	73.80	30%(+/-)	Yes
% respite care facility	0.0	0.0	40.74	30%(+/-)	Yes
% suppliers	3.5	4.1	15.51	30%(+/-)	Yes
% transportation services	1.0	0.8	-19.75	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	3,086	6,849	121.94	30%(+/-)	No
% a sole proprietorship	15.4	17.0	10.64	30%(+/-)	Yes
% not a sole proprietorship	74.4	74.7	0.42	30%(+/-)	Yes
% not answered	10.3	8.3	-18.98	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	643	1,313	104.20	30%(+/-)	No
% organization is a subpart	9.2	8.1	-12.02	30%(+/-)	Yes
% organization is not a subpart	56.1	55.9	-0.43	30%(+/-)	Yes
% not answered	34.7	36.0	3.87	N/A	N/A

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

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