

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

**State-Specific Validation Tables,  
2010**

**California**

May 31, 2013

Deo Bencio  
Mei-ling Mason



**MATHEMATICA**  
Policy Research

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## ACRONYMS

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

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## INTRODUCTION

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

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

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

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

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<sup>1</sup> 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: CA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>IP Providers</b>					
Number of provider IDs	2,923	2,882	-1.40	30% (+/-)	Yes
% billing provider on IP claim	100.0	100.0	0.00	N/A	N/A
% NPI billing provider on IP claim	84.7	77.8	-8.08	N/A	N/A
% also a provider on LT claim	3.7	3.0	-18.29	N/A	N/A
% also a provider on OT claim	79.9	81.1	1.47	N/A	N/A
% also a provider on RX claim	6.8	5.6	-18.85	N/A	N/A
% provider IDs with NPI	85.2	78.5	-7.91	30% (+/-)	Yes
% provider IDs linked to NPPES	32.6	32.5	-0.49	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	349.6	335.2	-4.10	30% (+/-)	Yes
average number of beneficiaries with IP claims	239.3	239.6	0.13	30% (+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	2,490	2,261	-9.20	30% (+/-)	Yes
% NPI source = MSIS	99.4	99.2	-0.20	30% (+/-)	Yes
% NPI source = NPPES	0.6	0.8	32.23	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPPES</b>					
Number of provider IDs linked to NPPES	954	936	-1.89	30% (+/-)	Yes
% linked via NPI	98.4	98.1	-0.36	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.9	1.0	2.01	30% (+/-)	Yes
% linked via Medicare UPIN	0.6	1.0	52.94	30% (+/-)	Yes
% with name prefix	0.3	0.5	70.06	30% (+/-)	Yes
% with first name	0.6	1.0	52.94	30% (+/-)	Yes
% with middle name	0.5	0.7	42.75	30% (+/-)	Yes
% with last name	0.6	1.0	52.94	30% (+/-)	Yes
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.2	0.3	52.86	30% (+/-)	Yes
% female	0.4	0.6	52.98	30% (+/-)	Yes
% with credential	0.6	1.0	52.94	30% (+/-)	Yes
% with business name	99.4	98.9	-0.44	30% (+/-)	Yes
% with address line 1	100.0	99.9	-0.11	30% (+/-)	Yes
% with city	100.0	99.9	-0.11	30% (+/-)	Yes
% with state	100.0	99.9	-0.11	30% (+/-)	Yes
% state = IP state code	40.5	33.7	-16.82	30% (+/-)	Yes
% with zip code	100.0	99.9	-0.11	30% (+/-)	Yes
% with primary taxonomy	99.6	99.6	-0.01	30% (+/-)	Yes
% with provider entity type = individual	0.6	1.0	52.94	30% (+/-)	Yes
% with provider entity type = organization	99.4	98.9	-0.44	30% (+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPPES Primary Taxonomy</b>					
Number of provider IDs with NPPES primary taxonomy	967	932	-3.62	30% (+/-)	Yes
% individual or group of individuals	1.0	1.3	24.56	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.5	0.5	3.68	30% (+/-)	Yes
% behavioral health and social service providers	0.0	0.2	Div by 0	30% (+/-)	N/A

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

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

**2009-2010 MAX IP Billing Provider Characteristics Validation Table**

State: CA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% chiropractic providers	0.0	0.2	Div by 0	30% (+/-)	N/A
% dental providers	0.1	0.0	-100.00	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	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	0.2	0.2	3.86	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	0.1	0.1	3.88	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	99.0	98.7	-0.26	30% (+/-)	Yes
% agencies	0.1	0.0	-100.00	30% (+/-)	Yes
% ambulatory health care facilities	1.6	0.9	-44.68	30% (+/-)	Yes
% hospital units	4.8	4.8	1.49	30% (+/-)	Yes
% hospitals	92.2	92.5	0.27	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	0.3	0.3	3.87	30% (+/-)	Yes
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.0	0.1	Div by 0	30% (+/-)	N/A
% transportation services	0.0	0.1	Div by 0	30% (+/-)	N/A
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	6	9	50.00	30% (+/-)	Yes
% a sole proprietorship	16.7	22.2	33.33	30% (+/-)	No
% not a sole proprietorship	50.0	55.6	11.11	30% (+/-)	Yes
% not answered	33.3	22.2	-33.33	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	948	926	-2.32	30% (+/-)	Yes
% organization is a subpart	12.9	12.0	-6.85	30% (+/-)	Yes
% organization is not a subpart	73.0	76.4	4.59	30% (+/-)	Yes
% not answered	14.1	11.7	-17.49	N/A	N/A

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

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

**2009-2010 MAX LT Billing Provider Characteristics Validation Table**

State: CA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>LT Providers</b>					
Number of provider IDs	3,069	3,007	-2.02	30% (+/-)	Yes
% billing provider on LT claim	100.0	100.0	0.00	N/A	N/A
% NPI billing provider on LT claim	64.2	48.1	-25.08	N/A	N/A
% also a provider on IP claim	3.5	2.9	-17.79	N/A	N/A
% also a provider on OT claim	39.0	56.8	45.51	N/A	N/A
% also a provider on RX claim	1.1	1.4	29.95	N/A	N/A
% provider IDs with NPI	64.8	48.8	-24.76	30% (+/-)	Yes
% provider IDs linked to NPPES	39.1	24.5	-37.45	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	1,023.9	1,064.6	3.98	30% (+/-)	Yes
average number of beneficiaries with LT claims	53.8	55.1	2.27	30% (+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	1,990	1,467	-26.28	30% (+/-)	Yes
% NPI source = MSIS	99.0	98.6	-0.43	30% (+/-)	Yes
% NPI source = NPPES	1.0	1.4	42.39	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPPES</b>					
Number of provider IDs linked to NPPES	1,201	736	-38.72	30% (+/-)	No
% linked via NPI	98.3	97.1	-1.21	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	1.6	2.7	71.74	30% (+/-)	Yes
% linked via Medicare UPIN	0.1	0.1	63.86	30% (+/-)	Yes
% with name prefix	0.0	0.1	Div by 0	30% (+/-)	N/A
% with first name	0.2	0.4	144.31	30% (+/-)	Yes
% with middle name	0.1	0.3	227.71	30% (+/-)	Yes
% with last name	0.2	0.4	144.31	30% (+/-)	Yes
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.0	0.1	Div by 0	30% (+/-)	N/A
% female	0.2	0.3	62.87	30% (+/-)	Yes
% with credential	0.1	0.1	63.86	30% (+/-)	Yes
% with business name	99.8	99.6	-0.24	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	99.5	99.3	-0.18	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	99.8	99.5	-0.29	30% (+/-)	Yes
% with provider entity type = individual	0.2	0.4	144.31	30% (+/-)	Yes
% with provider entity type = organization	99.8	99.6	-0.24	30% (+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPPES Primary Taxonomy</b>					
Number of provider IDs with NPPES primary taxonomy	1,216	732	-39.80	30% (+/-)	No
% individual or group of individuals	34.0	0.5	-98.40	30% (+/-)	No
% allopathic and osteopathic physicians	33.4	0.3	-99.18	30% (+/-)	No
% behavioral health and social service providers	0.6	0.0	-100.00	30% (+/-)	Yes

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

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

**2009-2010 MAX LT Billing Provider Characteristics Validation Table**

State: CA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% 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	0.1	0.1	67.07	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	0.1	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	66.0	99.5	50.79	30% (+/-)	No
% agencies	0.4	0.4	-0.24	30% (+/-)	Yes
% ambulatory health care facilities	0.2	0.4	150.00	30% (+/-)	Yes
% hospital units	0.8	1.4	66.18	30% (+/-)	Yes
% hospitals	5.3	3.7	-30.98	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.1	0.1	67.07	30% (+/-)	Yes
% nursing and custodial care facilities	55.0	75.3	36.82	30% (+/-)	No
% residential treatment facilities	4.1	18.0	338.55	30% (+/-)	No
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.0	0.1	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
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	2	3	50.00	30% (+/-)	Yes
% a sole proprietorship	50.0	66.7	33.33	30% (+/-)	No
% not a sole proprietorship	50.0	33.3	-33.33	30% (+/-)	No
% not answered	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	1,199	733	-38.87	30% (+/-)	No
% organization is a subpart	6.5	7.0	6.96	30% (+/-)	Yes
% organization is not a subpart	44.1	50.5	14.41	30% (+/-)	Yes
% not answered	49.4	42.6	-13.79	N/A	N/A

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

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

**2009-2010 MAX OT Servicing Provider Characteristics Validation Table**

State: CA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>OT Providers</b>					
Number of provider IDs	776,881	763,626	-1.71	30% (+/-)	Yes
% billing provider on OT claim	83.3	81.8	-1.74	N/A	N/A
% servicing provider on OT claim	97.5	97.6	0.07	N/A	N/A
% NPI servicing provider on OT claim	80.4	78.1	-2.77	N/A	N/A
% also a provider on IP claim	0.3	0.3	1.66	N/A	N/A
% also a provider on LT claim	0.2	0.2	45.45	N/A	N/A
% also a provider on RX claim	12.4	14.1	13.59	N/A	N/A
% provider IDs with NPI	90.1	87.3	-3.12	30% (+/-)	Yes
% provider IDs linked to NPPES	9.6	9.6	-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 OT claims	359.3	399.1	11.06	30% (+/-)	Yes
average number of beneficiaries with OT claims	63.5	62.2	-2.15	30% (+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	699,785	666,401	-4.77	30% (+/-)	Yes
% NPI source = MSIS	99.1	99.1	0.07	30% (+/-)	Yes
% NPI source = NPPES	0.9	0.9	-7.70	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPPES</b>					
Number of provider IDs linked to NPPES	74,790	73,286	-2.01	30% (+/-)	Yes
% linked via NPI	91.1	92.0	1.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	1.4	1.6	20.39	30% (+/-)	Yes
% linked via Medicare UPIN	7.5	6.3	-15.84	30% (+/-)	Yes
% with name prefix	12.9	10.5	-18.21	30% (+/-)	Yes
% with first name	23.2	19.4	-16.46	30% (+/-)	Yes
% with middle name	17.1	14.1	-17.20	30% (+/-)	Yes
% with last name	23.2	19.4	-16.46	30% (+/-)	Yes
% with name suffix	0.6	0.5	-20.00	30% (+/-)	Yes
% male	16.9	14.0	-17.49	30% (+/-)	Yes
% female	6.3	5.4	-13.69	30% (+/-)	Yes
% with credential	22.0	18.4	-16.29	30% (+/-)	Yes
% with business name	76.8	80.4	4.68	30% (+/-)	Yes
% with address line 1	100.0	99.8	-0.23	30% (+/-)	Yes
% with city	100.0	99.8	-0.23	30% (+/-)	Yes
% with state	100.0	99.8	-0.23	30% (+/-)	Yes
% state = OT state code	89.0	88.4	-0.67	30% (+/-)	Yes
% with zip code	100.0	99.8	-0.23	30% (+/-)	Yes
% with primary taxonomy	98.1	97.6	-0.54	30% (+/-)	Yes
% with provider entity type = individual	23.2	19.4	-16.46	30% (+/-)	Yes
% with provider entity type = organization	76.8	80.4	4.68	30% (+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPPES Primary Taxonomy</b>					
Number of provider IDs with NPPES primary taxonomy	73,774	71,526	-3.05	30% (+/-)	Yes
% individual or group of individuals	56.5	54.7	-3.08	30% (+/-)	Yes
% allopathic and osteopathic physicians	35.5	36.7	3.42	30% (+/-)	Yes

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

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

**2009-2010 MAX OT Servicing Provider Characteristics Validation Table**

State: CA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% behavioral health and social service providers	1.0	0.9	-9.97	30% (+/-)	Yes
% chiropractic providers	0.6	0.4	-34.15	30% (+/-)	Yes
% dental providers	8.8	8.6	-3.01	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	-31.43	30% (+/-)	Yes
% emergency medical service providers	0.0	0.0	-28.57	30% (+/-)	Yes
% eye and vision service providers	3.0	1.8	-40.04	30% (+/-)	Yes
% nursing service providers	0.4	0.4	-6.57	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	75.00	30% (+/-)	Yes
% other service providers	3.9	3.4	-11.92	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	-36.36	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	0.4	0.3	-2.86	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.8	0.6	-19.97	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.4	0.5	8.07	30% (+/-)	Yes
% speech, language, and hearing service providers	0.8	0.9	22.92	30% (+/-)	Yes
% student health care	0.0	0.0	-16.67	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.1	74.47	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.7	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	43.5	45.3	3.99	30% (+/-)	Yes
% agencies	5.4	6.1	12.59	30% (+/-)	Yes
% ambulatory health care facilities	9.0	10.1	12.41	30% (+/-)	Yes
% hospital units	0.1	0.0	-29.63	30% (+/-)	Yes
% hospitals	18.3	13.3	-27.44	30% (+/-)	Yes
% laboratories	3.1	5.4	76.43	30% (+/-)	Yes
% managed care organizations	1.6	2.3	43.26	30% (+/-)	Yes
% nursing and custodial care facilities	0.2	0.4	67.83	30% (+/-)	Yes
% residential treatment facilities	0.0	0.1	15.56	30% (+/-)	Yes
% respite care facility	0.0	0.0	81.82	30% (+/-)	Yes
% suppliers	3.9	5.6	42.52	30% (+/-)	Yes
% transportation services	2.0	2.1	7.17	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	17,376	14,224	-18.14	30% (+/-)	Yes
% a sole proprietorship	44.7	44.0	-1.56	30% (+/-)	Yes
% not a sole proprietorship	46.0	49.7	8.03	30% (+/-)	Yes
% not answered	9.3	6.3	-32.19	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	57,414	58,895	2.58	30% (+/-)	Yes
% organization is a subpart	11.4	12.6	10.76	30% (+/-)	Yes
% organization is not a subpart	66.5	68.1	2.52	30% (+/-)	Yes
% not answered	22.1	19.2	-13.09	N/A	N/A

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

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

**2009-2010 MAX OT Billing Provider Characteristics Validation Table**

State: CA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>OT Providers</b>					
Number of provider IDs	647,098	624,999	-3.42	30% (+/-)	Yes
% billing provider on OT claim	100.0	100.0	0.00	N/A	N/A
% servicing provider on OT claim	97.0	97.1	0.03	N/A	N/A
% NPI servicing provider on OT claim	96.5	95.5	-1.05	N/A	N/A
% also a provider on IP claim	0.4	0.4	3.64	N/A	N/A
% also a provider on LT claim	0.0	0.1	100.00	N/A	N/A
% also a provider on RX claim	4.7	4.9	3.42	N/A	N/A
% provider IDs with NPI	96.8	95.8	-0.99	30% (+/-)	Yes
% provider IDs linked to NPPES	4.3	4.2	-2.86	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	471.5	510.7	8.32	30% (+/-)	Yes
average number of beneficiaries with OT claims	71.1	73.4	3.14	30% (+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	626,221	598,863	-4.37	30% (+/-)	Yes
% NPI source = MSIS	99.7	99.6	-0.07	30% (+/-)	Yes
% NPI source = NPPES	0.3	0.4	20.95	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPPES</b>					
Number of provider IDs linked to NPPES	27,830	26,114	-6.17	30% (+/-)	Yes
% linked via NPI	92.9	91.3	-1.78	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	1.9	2.1	14.53	30% (+/-)	Yes
% linked via Medicare UPIN	5.2	6.6	26.50	30% (+/-)	Yes
% with name prefix	20.5	17.2	-15.98	30% (+/-)	Yes
% with first name	34.9	30.4	-12.88	30% (+/-)	Yes
% with middle name	25.7	22.5	-12.44	30% (+/-)	Yes
% with last name	34.9	30.4	-12.88	30% (+/-)	Yes
% with name suffix	0.8	0.6	-19.02	30% (+/-)	Yes
% male	24.4	20.9	-14.52	30% (+/-)	Yes
% female	10.4	9.5	-9.02	30% (+/-)	Yes
% with credential	33.1	28.9	-12.93	30% (+/-)	Yes
% with business name	65.1	69.2	6.27	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.41	30% (+/-)	Yes
% with city	100.0	99.6	-0.41	30% (+/-)	Yes
% with state	100.0	99.6	-0.41	30% (+/-)	Yes
% state = OT state code	87.5	85.5	-2.24	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.41	30% (+/-)	Yes
% with primary taxonomy	97.8	97.6	-0.16	30% (+/-)	Yes
% with provider entity type = individual	34.9	30.4	-12.88	30% (+/-)	Yes
% with provider entity type = organization	65.1	69.2	6.27	30% (+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPPES Primary Taxonomy</b>					
Number of provider IDs with NPPES primary taxonomy	27,518	25,487	-7.38	30% (+/-)	Yes
% individual or group of individuals	70.1	67.7	-3.39	30% (+/-)	Yes
% allopathic and osteopathic physicians	36.4	35.6	-2.33	30% (+/-)	Yes

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

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

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

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% behavioral health and social service providers	2.1	2.2	2.37	30% (+/-)	Yes
% chiropractic providers	1.2	1.0	-14.74	30% (+/-)	Yes
% dental providers	15.4	16.5	6.93	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.1	25.53	30% (+/-)	Yes
% emergency medical service providers	0.1	0.0	-15.69	30% (+/-)	Yes
% eye and vision service providers	4.8	3.5	-26.32	30% (+/-)	Yes
% nursing service providers	1.0	1.0	0.78	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	14.29	30% (+/-)	Yes
% other service providers	5.1	3.9	-23.54	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	81.82	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	0.3	0.3	5.50	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.7	1.5	-11.81	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.6	0.9	34.84	30% (+/-)	Yes
% speech, language, and hearing service providers	1.0	1.0	9.21	30% (+/-)	Yes
% student health care	0.0	0.0	-11.11	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.1	0.1	11.76	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.2	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	29.9	32.3	7.94	30% (+/-)	Yes
% agencies	4.4	5.6	27.32	30% (+/-)	Yes
% ambulatory health care facilities	10.8	11.3	4.30	30% (+/-)	Yes
% hospital units	0.1	0.1	17.50	30% (+/-)	Yes
% hospitals	5.5	5.4	-2.68	30% (+/-)	Yes
% laboratories	1.1	1.2	9.41	30% (+/-)	Yes
% managed care organizations	0.4	0.5	26.03	30% (+/-)	Yes
% nursing and custodial care facilities	0.4	0.5	50.28	30% (+/-)	Yes
% residential treatment facilities	0.1	0.1	16.33	30% (+/-)	Yes
% respite care facility	0.0	0.0	20.69	30% (+/-)	Yes
% suppliers	5.0	5.3	6.16	30% (+/-)	Yes
% transportation services	2.1	2.2	5.66	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	9,704	7,933	-18.25	30% (+/-)	Yes
% a sole proprietorship	50.9	48.3	-5.19	30% (+/-)	Yes
% not a sole proprietorship	40.4	45.2	11.96	30% (+/-)	Yes
% not answered	8.7	6.5	-25.07	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	18,126	18,074	-0.29	30% (+/-)	Yes
% organization is a subpart	7.1	7.5	6.30	30% (+/-)	Yes
% organization is not a subpart	64.4	69.3	7.63	30% (+/-)	Yes
% not answered	28.6	23.2	-18.76	N/A	N/A

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

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

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

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>RX Providers</b>					
Number of provider IDs	25,779	20,556	-20.26	30% (+/-)	Yes
% billing provider on RX claim	100.0	100.0	0.00	N/A	N/A
% prescribing provider on RX claim	31.0	3.7	-87.95	N/A	N/A
% NPI billing provider on RX claim	95.2	98.8	3.70	N/A	N/A
% also a provider on IP claim	0.1	0.2	11.03	N/A	N/A
% also a provider on LT claim	0.1	0.1	43.10	N/A	N/A
% also a provider on OT claim	9.0	4.8	-46.47	N/A	N/A
% provider IDs with NPI	96.3	98.8	2.57	30% (+/-)	Yes
% provider IDs linked to NPPES	27.9	35.5	27.27	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of RX claims	2,723.4	3,517.6	29.16	30% (+/-)	Yes
average number of beneficiaries with RX claims	345.5	423.2	22.49	30% (+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	24,832	20,310	-18.21	30% (+/-)	Yes
% NPI source = MSIS	98.9	99.9	1.10	30% (+/-)	Yes
% NPI source = NPPES	1.1	0.1	-95.26	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPPES</b>					
Number of provider IDs linked to NPPES	7,198	7,305	1.49	30% (+/-)	Yes
% linked via NPI	96.1	99.8	3.94	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.1	0.1	-26.13	30% (+/-)	Yes
% linked via Medicare UPIN	3.8	0.1	-98.22	30% (+/-)	Yes
% with name prefix	2.3	0.5	-76.42	30% (+/-)	Yes
% with first name	4.7	0.9	-80.53	30% (+/-)	Yes
% with middle name	3.5	0.7	-80.46	30% (+/-)	Yes
% with last name	4.7	0.9	-80.53	30% (+/-)	Yes
% with name suffix	0.1	0.0	-79.71	30% (+/-)	Yes
% male	3.4	0.6	-82.17	30% (+/-)	Yes
% female	1.3	0.3	-76.39	30% (+/-)	Yes
% with credential	4.4	0.7	-84.20	30% (+/-)	Yes
% with business name	95.3	98.5	3.38	30% (+/-)	Yes
% with address line 1	100.0	99.4	-0.58	30% (+/-)	Yes
% with city	100.0	99.4	-0.58	30% (+/-)	Yes
% with state	100.0	99.4	-0.58	30% (+/-)	Yes
% state = RX state code	81.4	78.4	-3.62	30% (+/-)	Yes
% with zip code	100.0	99.4	-0.58	30% (+/-)	Yes
% with primary taxonomy	98.6	98.5	-0.13	30% (+/-)	Yes
% with provider entity type = individual	4.7	0.9	-80.53	30% (+/-)	Yes
% with provider entity type = organization	95.3	98.5	3.38	30% (+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPPES Primary Taxonomy</b>					
Number of provider IDs with NPPES primary taxonomy	7,115	7,193	1.10	30% (+/-)	Yes
% individual or group of individuals	6.8	3.5	-48.70	30% (+/-)	Yes
% allopathic and osteopathic physicians	3.7	0.3	-93.24	30% (+/-)	Yes

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

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

# 2009-2010 MAX RX Billing Provider Characteristics Validation Table

State: CA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% behavioral health and social service providers	0.0	0.0	-100.00	30% (+/-)	Yes
% 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	-100.00	30% (+/-)	Yes
% 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	0.1	0.0	-90.07	30% (+/-)	Yes
% pharmacy service providers	2.8	3.2	13.10	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	0.0	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	0.00	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	-100.00	30% (+/-)	Yes
% nonindividuals	93.2	96.5	3.55	30% (+/-)	Yes
% agencies	0.1	0.1	-42.86	30% (+/-)	Yes
% ambulatory health care facilities	1.4	0.8	-37.78	30% (+/-)	Yes
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	0.5	0.1	-70.04	30% (+/-)	Yes
% laboratories	0.1	0.1	-23.02	30% (+/-)	Yes
% managed care organizations	0.0	0.1	130.95	30% (+/-)	Yes
% nursing and custodial care facilities	0.0	0.0	-33.33	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	91.1	95.2	4.59	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
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	339	67	-80.24	30% (+/-)	No
% a sole proprietorship	31.3	77.6	148.22	30% (+/-)	No
% not a sole proprietorship	57.8	19.4	-66.44	30% (+/-)	No
% not answered	10.9	3.0	-72.65	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	6,859	7,196	4.91	30% (+/-)	Yes
% organization is a subpart	24.4	26.1	6.76	30% (+/-)	Yes
% organization is not a subpart	68.9	69.4	0.64	30% (+/-)	Yes
% not answered	6.7	4.6	-31.38	N/A	N/A

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

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

**2009-2010 MAX RX Prescribing Provider Characteristics Validation Table**

State: CA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>RX Providers</b>					
Number of provider IDs	411,612	389,535	-5.36	30% (+/-)	Yes
% billing provider on RX claim	1.9	0.2	-89.86	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	1.7	0.2	-89.33	N/A	N/A
% also a provider on IP claim	0.0	0.0	-14.63	N/A	N/A
% also a provider on LT claim	0.0	0.0	40.00	N/A	N/A
% also a provider on OT claim	23.3	27.4	17.93	N/A	N/A
% provider IDs with NPI	15.9	13.3	-16.49	30% (+/-)	Yes
% provider IDs linked to NPPES	10.8	9.4	-13.32	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	195.9	194.2	-0.83	30% (+/-)	Yes
average number of beneficiaries with RX claims	34.1	33.9	-0.48	30% (+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	65,597	51,843	-20.97	30% (+/-)	Yes
% NPI source = MSIS	69.1	66.3	-4.08	30% (+/-)	Yes
% NPI source = NPPES	30.9	33.7	9.13	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPPES</b>					
Number of provider IDs linked to NPPES	44,557	36,551	-17.97	30% (+/-)	Yes
% linked via NPI	54.5	52.2	-4.28	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	26.5	30.0	13.14	30% (+/-)	Yes
% linked via Medicare UPIN	19.0	17.8	-6.04	30% (+/-)	Yes
% with name prefix	24.2	24.5	1.32	30% (+/-)	Yes
% with first name	53.1	53.9	1.52	30% (+/-)	Yes
% with middle name	39.7	40.0	0.82	30% (+/-)	Yes
% with last name	53.1	53.9	1.52	30% (+/-)	Yes
% with name suffix	1.3	1.2	-3.01	30% (+/-)	Yes
% male	39.0	39.3	0.74	30% (+/-)	Yes
% female	14.1	14.6	3.68	30% (+/-)	Yes
% with credential	52.0	52.7	1.41	30% (+/-)	Yes
% with business name	46.9	45.9	-2.02	30% (+/-)	Yes
% with address line 1	100.0	99.9	-0.14	30% (+/-)	Yes
% with city	100.0	99.9	-0.14	30% (+/-)	Yes
% with state	100.0	99.9	-0.14	30% (+/-)	Yes
% state = RX state code	85.2	85.8	0.76	30% (+/-)	Yes
% with zip code	100.0	99.9	-0.14	30% (+/-)	Yes
% with primary taxonomy	97.6	97.6	0.07	30% (+/-)	Yes
% with provider entity type = individual	53.1	53.9	1.52	30% (+/-)	Yes
% with provider entity type = organization	46.9	45.9	-2.02	30% (+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPPES Primary Taxonomy</b>					
Number of provider IDs with NPPES primary taxonomy	43,521	35,689	-18.00	30% (+/-)	Yes
% individual or group of individuals	70.4	73.0	3.62	30% (+/-)	Yes
% allopathic and osteopathic physicians	54.4	57.8	6.38	30% (+/-)	Yes

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

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

**2009-2010 MAX RX Prescribing Provider Characteristics Validation Table**

State: CA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% behavioral health and social service providers	0.2	0.1	-33.14	30% (+/-)	Yes
% chiropractic providers	0.1	0.1	-16.67	30% (+/-)	Yes
% dental providers	8.4	8.9	4.97	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	14.29	30% (+/-)	Yes
% emergency medical service providers	0.1	0.0	-33.33	30% (+/-)	Yes
% eye and vision service providers	1.7	1.1	-35.23	30% (+/-)	Yes
% nursing service providers	0.0	0.0	27.27	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	3.2	3.2	-0.09	30% (+/-)	Yes
% pharmacy service providers	0.1	0.0	-80.00	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	0.5	0.6	16.93	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.9	0.8	-18.21	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.1	0.0	-12.73	30% (+/-)	Yes
% speech, language, and hearing service providers	0.1	0.2	125.93	30% (+/-)	Yes
% student health care	0.0	0.0	100.00	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	21.43	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.7	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	29.6	27.0	-8.61	30% (+/-)	Yes
% agencies	0.8	0.9	4.64	30% (+/-)	Yes
% ambulatory health care facilities	3.6	4.1	14.68	30% (+/-)	Yes
% hospital units	0.0	0.0	-90.63	30% (+/-)	Yes
% hospitals	15.7	8.6	-45.12	30% (+/-)	No
% laboratories	2.5	6.0	136.91	30% (+/-)	Yes
% managed care organizations	1.8	2.1	20.02	30% (+/-)	Yes
% nursing and custodial care facilities	0.1	0.0	-29.41	30% (+/-)	Yes
% residential treatment facilities	0.0	0.0	50.00	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	4.4	4.3	-2.97	30% (+/-)	Yes
% transportation services	0.7	1.0	48.77	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	23,672	19,714	-16.72	30% (+/-)	Yes
% a sole proprietorship	26.8	26.9	0.46	30% (+/-)	Yes
% not a sole proprietorship	63.2	66.1	4.57	30% (+/-)	Yes
% not answered	10.1	7.1	-29.84	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	20,885	16,787	-19.62	30% (+/-)	Yes
% organization is a subpart	14.4	17.2	19.30	30% (+/-)	Yes
% organization is not a subpart	66.4	65.0	-2.10	30% (+/-)	Yes
% not answered	19.1	17.7	-7.27	N/A	N/A

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

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

**2009-2010 MAX All Provider Characteristics Validation Table**

State: CA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>All Providers</b>					
Number of provider IDs	1,112,427	1,067,299	-4.06	30%(+/-)	Yes
% billing provider on IP claim	0.3	0.3	2.66	N/A	N/A
% NPI billing provider on IP claim	0.2	0.2	-5.41	N/A	N/A
% billing provider on LT claim	0.3	0.3	2.17	N/A	N/A
% NPI billing provider on LT claim	0.2	0.1	-23.73	N/A	N/A
% billing provider on OT claim	58.2	58.6	0.67	N/A	N/A
% servicing provider on OT claim	68.1	69.8	2.52	N/A	N/A
% NPI servicing provider on OT claim	56.1	55.9	-0.39	N/A	N/A
% billing provider on RX claim	2.3	1.9	-16.88	N/A	N/A
% prescribing provider on RX claim	37.0	36.5	-1.36	N/A	N/A
% NPI billing provider on RX claim	2.2	1.9	-13.82	N/A	N/A
% billing provider	60.6	60.7	0.10	N/A	N/A
% NPI billing provider	2.6	2.2	-13.70	N/A	N/A
% servicing provider	68.1	69.8	2.52	N/A	N/A
% NPI servicing provider	56.1	55.9	-0.39	N/A	N/A
% prescribing provider	37.0	36.5	-1.36	N/A	N/A
% provider IDs with NPI	66.8	65.8	-1.48	30%(+/-)	Yes
% provider IDs linked to NPPES	9.0	9.0	-0.40	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	459.2	512.5	11.60	30%(+/-)	Yes
average number of beneficiaries with claims	72.3	73.8	1.97	30%(+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	743,087	702,364	-5.48	30%(+/-)	Yes
% NPI source = MSIS	96.8	97.1	0.34	30%(+/-)	Yes
% NPI source = NPPES	3.2	2.9	-10.26	30%(+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPPES</b>					
Number of provider IDs linked to NPPES	100,195	95,749	-4.44	30%(+/-)	Yes
% linked via NPI	76.0	78.7	3.55	30%(+/-)	Yes
% linked via Medicaid legacy provider ID	12.1	11.9	-2.07	30%(+/-)	Yes
% linked via Medicare UPIN	11.9	9.5	-20.53	30%(+/-)	Yes
% with name prefix	16.5	14.2	-14.19	30%(+/-)	Yes
% with first name	34.3	29.6	-13.65	30%(+/-)	Yes
% with middle name	25.4	21.8	-14.33	30%(+/-)	Yes
% with last name	34.3	29.6	-13.65	30%(+/-)	Yes
% with name suffix	0.8	0.7	-18.11	30%(+/-)	Yes
% male	25.0	21.4	-14.32	30%(+/-)	Yes
% female	9.3	8.2	-11.83	30%(+/-)	Yes
% with credential	33.0	28.5	-13.56	30%(+/-)	Yes
% with business name	65.7	70.2	6.78	30%(+/-)	Yes
% with address line 1	100.0	99.8	-0.22	30%(+/-)	Yes
% with city	100.0	99.8	-0.22	30%(+/-)	Yes
% with state	100.0	99.8	-0.22	30%(+/-)	Yes
% state = claim file state code	85.7	85.8	0.07	30%(+/-)	Yes
% with zip code	100.0	99.8	-0.22	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: CA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% with primary taxonomy	97.8	97.6	-0.23	30%(+/-)	Yes
% with provider entity type = individual	34.3	29.6	-13.65	30%(+/-)	Yes
% with provider entity type = organization	65.7	70.2	6.78	30%(+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPPES Primary Taxonomy</b>					
Number of provider IDs with NPPES primary taxonomy	98,449	93,456	-5.07	30%(+/-)	Yes
% individual or group of individuals	59.8	57.2	-4.42	30%(+/-)	Yes
% allopathic and osteopathic physicians	42.7	42.1	-1.35	30%(+/-)	Yes
% behavioral health and social service providers	0.8	0.7	-10.11	30%(+/-)	Yes
% chiropractic providers	0.5	0.3	-32.18	30%(+/-)	Yes
% dental providers	6.6	6.6	-0.84	30%(+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	-29.63	30%(+/-)	Yes
% emergency medical service providers	0.0	0.0	-30.95	30%(+/-)	Yes
% eye and vision service providers	2.3	1.4	-38.10	30%(+/-)	Yes
% nursing service providers	0.3	0.3	-4.36	30%(+/-)	Yes
% nursing service-related providers	0.0	0.0	66.67	30%(+/-)	Yes
% other service providers	3.6	3.2	-10.92	30%(+/-)	Yes
% pharmacy service providers	0.2	0.2	16.90	30%(+/-)	Yes
% physician assistants and advanced practice nursing providers	0.4	0.4	-7.08	30%(+/-)	Yes
% podiatric medicine and surgery service providers	0.7	0.6	-18.72	30%(+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.3	0.4	9.83	30%(+/-)	Yes
% speech, language, and hearing service providers	0.6	0.7	25.17	30%(+/-)	Yes
% student health care	0.0	0.0	0.00	30%(+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.1	61.90	30%(+/-)	Yes
% group of individuals with multi- or single specialty	0.6	0.0	-100.00	30%(+/-)	Yes
% nonindividuals	40.2	42.8	6.58	30%(+/-)	Yes
% agencies	4.1	4.7	14.93	30%(+/-)	Yes
% ambulatory health care facilities	6.8	7.8	14.37	30%(+/-)	Yes
% hospital units	0.1	0.1	-6.45	30%(+/-)	Yes
% hospitals	14.0	10.4	-25.81	30%(+/-)	Yes
% laboratories	2.3	4.1	79.63	30%(+/-)	Yes
% managed care organizations	1.2	1.7	46.17	30%(+/-)	Yes
% nursing and custodial care facilities	0.8	0.8	-0.85	30%(+/-)	Yes
% residential treatment facilities	0.1	0.2	104.76	30%(+/-)	Yes
% respite care facility	0.0	0.0	100.00	30%(+/-)	Yes
% suppliers	9.4	11.4	22.03	30%(+/-)	Yes
% transportation services	1.5	1.6	9.56	30%(+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	34,326	28,326	-17.48	30%(+/-)	Yes
% a sole proprietorship	32.6	32.8	0.57	30%(+/-)	Yes
% not a sole proprietorship	57.6	60.5	4.94	30%(+/-)	Yes
% not answered	9.8	6.7	-31.07	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	65,869	67,214	2.04	30%(+/-)	Yes
% organization is a subpart	12.6	13.9	10.69	30%(+/-)	Yes
% organization is not a subpart	66.3	68.1	2.70	30%(+/-)	Yes
% not answered	21.1	18.0	-14.86	N/A	N/A

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

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