Medicaid Analytic Extract Provider Characteristics (MAXPC)

Cross-State Validation Tables, 2011

Final Report

June 28, 2013

Deo Bencio
Mei-ling Mason

MATHEMATICA
Policy Research

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Sixteen states are not included in MAXPC 2011 because their MSIS files were unavailable or contained significant data problems at the production cut-off date of May 15, 2013. The cut-off date was established to provide time to produce the MAXPC deliverables by the contractual deadlines. The 16 states are:

- Arizona
- California
- Colorado
- Florida
- Idaho
- Kansas
- Maine
- Massachusetts
- Nebraska
- New Hampshire
- New Jersey
- New Mexico
- North Dakota
- Ohio
- Rhode Island
- Utah

The following states were processed without the full complement of seven quarters of data typically used when processing MAX files. Records excluded are IP, LT, OT, and RX claims with service dates in 2011 that were adjudicated in FFY 2012 Q4.

- District of Columbia
- Hawaii
- Indiana
- Maryland
- New York
- West Virginia

The following states were also processed without the full complement of data. Along with the excluded records described above, we excluded similar records that were adjudicated in FFY 2012 Q3.

- Illinois
- Minnesota
- Texas
- Vermont

ACRONYMS

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

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INTRODUCTION

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

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

Once the state's MAXPC file is created, validation tables are produced. Validation tables are designed as a diagnostic tool to determine whether linkages are working in the expected manner. There are two sets of validation tables: state-specific and cross-state tables. Both sets contain the exact same measures (the rows). The state-specific tables focus on one state; as more MAXPC files are created over time, these tables will be used to monitor changes to measures longitudinally. The cross-state tables focus on a single year of data, but will include one column for every state; they are useful in determining linkage issues that are unusual or unique to certain states.

Validation tables 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

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

sixth section focuses on individual providers showing their sole proprietorship status. Finally, the seventh section focuses on provider organizations and their ownership status.

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

- Number of IP Claims for Provider

- Number of Beneficiaries with IP Claims for Provider

- Number of LT Claims for Provider

- Number of Beneficiaries with LT Claims for Provider

- Number of OT Claims for Provider

- Number of Beneficiaries with OT Claims for Provider

- Number of RX Claims for provider

- Number of Beneficiaries with RX Claims for Provider.

2011 MAXPC CROSS-STATE VALIDATION TABLES

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Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
IP Providers													
Number of provider IDs	667	109		468			634	117	172		1,212	249	
% billing provider on IP claim	50.2	100.0		54.9			50.2	48.7	50.6		54.1	51.0	
% NPI billing provider on IP claim	49.8	99.1		45.1			49.8	98.3	49.4		45.9	49.0	
% also a provider on LT claim	0.3	10.1		2.4			0.6	3.4	1.7		0.1	28.1	
% also a provider on OT claim	86.8	74.3		57.5			42.3	64.1	91.9		71.6	77.1	
% also a provider on RX claim	0.0	0.0		0.4			0.0	1.7	9.9		7.9	6.0	
% provider IDs with NPI	99.9	99.1		75.9			99.8	98.3	98.8		98.8	94.0	
% provider IDs linked to NPPES	99.9	96.3		75.9			99.8	98.3	98.8		98.8	94.0	
% provider IDs with or without NPI but linked to state provider file	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
average number of IP claims	495.3	200.3		522.6			622.7	172.2	425.1		506.4	307.3	
average number of beneficiaries with IP claims	378.1	168.7		434.3			376.3	145.0	326.3		435.6	170.2	
Provider IDs with NPI													
Number of provider IDs with NPI	666	108		355			633	115	170		1,197	234	
% NPI source = MSIS	100.0	100.0		88.5			100.0	100.0	98.8		99.8	100.0	
% NPI source = NPPES	0.0	0.0		11.5			0.0	0.0	1.2		0.2	0.0	
% NPI source = state cross-reference file	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	666	105		355			633	115	170		1,197	234	
% linked via NPI	100.0	100.0		88.5			100.0	100.0	98.8		99.8	100.0	
% linked via Medicaid legacy provider ID	0.0	0.0		11.5			0.0	0.0	1.2		0.2	0.0	
% linked via Medicare UPIN	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% with name prefix	0.0	0.0		0.3			0.0	0.0	0.0		0.0	2.6	
% with first name	0.0	0.0		0.3			0.0	0.9	0.6		0.2	4.3	
% with middle name	0.0	0.0		0.3			0.0	0.9	0.6		0.2	3.8	
% with last name	0.0	0.0		0.3			0.0	0.9	0.6		0.2	4.3	
% with name suffix	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% male	0.0	0.0		0.3			0.0	0.9	0.6		0.2	2.6	
% female	0.0	0.0		0.0			0.0	0.0	0.0		0.0	1.7	
% with credential	0.0	0.0		0.3			0.0	0.9	0.6		0.2	3.8	
% with business name	100.0	100.0		99.7			99.7	98.3	99.4		99.5	95.7	
% with address line 1	100.0	100.0		100.0			99.7	99.1	100.0		99.7	100.0	
% with city	100.0	100.0		100.0			99.7	99.1	100.0		99.7	100.0	
% with state	100.0	100.0		100.0			99.7	99.1	100.0		99.7	100.0	
% state = IP state code	36.3	35.2		41.4			20.2	11.3	25.9		33.3	85.5	
% with zip code	100.0	100.0		100.0			99.7	99.1	100.0		99.7	100.0	
% with primary taxonomy	99.7	100.0		99.2			98.4	97.4	100.0		99.5	100.0	
% with provider entity type = individual	0.0	0.0		0.3			0.0	0.9	0.6		0.2	4.3	
% with provider entity type = organization	100.0	100.0		99.7			99.7	98.3	99.4		99.5	95.7	

2011 MAX IP Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
Provider IDs with or without NPI but linked to state provider file													
Number of provider IDs with or without NPI linked to state provider file	0	0		0			0	0	0		0	0	
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	664	105	352				623	112	170		1,191	234	
% individual or group of individuals	0.0	1.0	0.3				0.3	0.9	4.7		0.3	8.1	
% allopathic and osteopathic physicians	0.0	0.0	0.3				0.3	0.9	4.7		0.0	4.7	
% behavioral health and social service providers	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	
% chiropractic providers	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	
% dental providers	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	
% dietary and nutritional service providers	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	
% emergency medical service providers	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	
% eye and vision service providers	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	
% nursing service providers	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	
% nursing service-related providers	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	
% other service providers	0.0	0.0	0.0				0.0	0.0	0.0		0.0	2.6	
% pharmacy service providers	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	
% physician assistants and advanced practice nursing providers	0.0	1.0	0.0				0.0	0.0	0.0		0.3	0.9	
% podiatric medicine and surgery service providers	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	
% speech, language, and hearing service providers	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	
% student health care	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	
% technologists, technicians, and other technical service providers	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	
% group of individuals with multi- or single specialty	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	
% nonindividuals	100.0	99.0	99.7				99.7	99.1	95.3		99.7	91.9	
% agencies	0.0	0.0	0.0				0.3	1.8	0.0		0.0	11.5	
% ambulatory health care facilities	0.0	7.6	0.0				0.0	5.4	1.2		0.0	1.7	
% hospital units	4.8	6.7	0.0				7.9	4.5	5.9		0.7	2.6	
% hospitals	94.9	84.8	99.4				91.2	84.8	88.2		98.5	36.8	
% laboratories	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	
% managed care organizations	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	
% nursing and custodial care facilities	0.0	0.0	0.3				0.0	0.0	0.0		0.0	36.8	
% residential treatment facilities	0.0	0.0	0.0				0.0	2.7	0.0		0.3	1.7	
% respite care facility	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	
% suppliers	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.9	
% transportation services	0.3	0.0	0.0				0.3	0.0	0.0		0.2	0.0	
% nonmedical	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	

2011 MAX IP Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	0	0		1			0	1	1		2	10	
% a sole proprietorship	0.0	0.0		0.0			0.0	0.0	0.0		100.0	50.0	
% not a sole proprietorship	0.0	0.0		100.0			0.0	100.0	100.0		0.0	50.0	
% not answered	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	666	105		354			631	113	169		1,191	224	
% organization is a subpart	9.9	14.3		4.5			6.7	8.8	3.6		6.6	11.6	
% organization is not a subpart	81.4	82.9		86.4			80.5	71.7	92.9		86.5	58.5	
% not answered	8.7	2.9		9.0			12.8	19.5	3.6		6.9	29.9	

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

2011 MAX IP Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
IP Providers													
Number of provider IDs	1,060	806	680		766	1,306		465		1,975	759	664	874
% billing provider on IP claim	43.9	47.9	56.5		50.3	39.4		52.3		67.1	50.2	49.7	54.9
% NPI billing provider on IP claim	56.1	52.1	43.5		49.7	60.6		47.7		33.7	49.8	50.3	45.1
% also a provider on LT claim	0.9	7.7	0.1		0.3	1.7		3.4		12.3	11.7	8.4	0.0
% also a provider on OT claim	87.1	90.1	71.9		76.4	70.6		85.4		72.5	88.8	81.6	91.9
% also a provider on RX claim	3.8	6.3	7.8		1.7	5.8		12.7		25.9	5.7	14.8	47.5
% provider IDs with NPI	90.2	100.0	88.5		100.0	90.7		94.0		82.5	92.5	99.4	69.2
% provider IDs linked to NPPES	90.2	100.0	88.2		100.0	76.4		93.8		82.5	92.2	99.4	65.0
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
average number of IP claims	702.8	535.9	204.1		903.7	484.0		654.3		327.2	331.9	401.0	436.5
average number of beneficiaries with IP claims	521.1	382.5	170.2		366.9	330.3		445.4		218.9	265.8	320.0	332.7
Provider IDs with NPI													
Number of provider IDs with NPI	956	806	602		766	1,185		437		1,630	702	660	605
% NPI source = MSIS	100.0	95.8	98.2		100.0	100.0		96.8		97.5	94.7	99.4	80.7
% NPI source = NPPES	0.0	0.4	1.8		0.0	0.0		3.2		2.5	5.3	0.6	19.3
% NPI source = state cross-reference file	0.0	3.8	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	956	806	600		766	998		436		1,630	700	660	568
% linked via NPI	100.0	99.6	98.2		100.0	100.0		96.8		97.5	94.7	99.4	79.4
% linked via Medicaid legacy provider ID	0.0	0.4	1.8		0.0	0.0		3.2		2.4	5.3	0.6	20.6
% linked via Medicare UPIN	0.0	0.0	0.0		0.0	0.0		0.0		0.1	0.0	0.0	0.0
% with name prefix	0.0	0.0	0.0		0.0	0.0		0.0		1.2	0.1	0.3	3.5
% with first name	0.0	0.0	0.0		0.0	0.0		0.0		2.1	0.1	0.3	5.5
% with middle name	0.0	0.0	0.0		0.0	0.0		0.0		1.6	0.1	0.3	4.8
% with last name	0.0	0.0	0.0		0.0	0.0		0.0		2.1	0.1	0.3	5.5
% with name suffix	0.0	0.0	0.0		0.0	0.0		0.0		0.1	0.0	0.0	0.4
% male	0.0	0.0	0.0		0.0	0.0		0.0		1.8	0.0	0.3	4.9
% female	0.0	0.0	0.0		0.0	0.0		0.0		0.3	0.1	0.0	0.5
% with credential	0.0	0.0	0.0		0.0	0.0		0.0		2.0	0.1	0.3	5.5
% with business name	99.9	100.0	99.7		100.0	100.0		100.0		97.9	99.9	99.7	94.2
% with address line 1	99.9	100.0	99.7		100.0	100.0		100.0		99.9	100.0	100.0	99.6
% with city	99.9	100.0	99.7		100.0	100.0		100.0		99.9	100.0	100.0	99.6
% with state	99.9	100.0	99.7		100.0	100.0		100.0		99.9	100.0	100.0	99.6
% state = IP state code	42.2	47.8	43.5		28.1	36.0		32.1		38.7	42.7	47.0	71.8
% with zip code	99.9	100.0	99.7		100.0	100.0		100.0		99.9	100.0	100.0	99.6
% with primary taxonomy	99.5	99.8	98.7		100.0	99.6		99.5		99.8	99.1	99.7	98.9
% with provider entity type = individual	0.0	0.0	0.0		0.0	0.0		0.0		2.1	0.1	0.3	5.5
% with provider entity type = organization	99.9	100.0	99.7		100.0	100.0		100.0		97.9	99.9	99.7	94.2

2011 MAX IP Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
Provider IDs with or without NPI but linked to state provider file													
Number of provider IDs with or without NPI linked to state provider file	0	0	0		0	0		0		0	0	0	0
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	951	804	592		766	994		434		1,627	694	658	562
% individual or group of individuals	0.3	0.2	0.3		0.0	0.0		0.0		5.8	0.6	0.3	23.1
% allopathic and osteopathic physicians	0.2	0.2	0.0		0.0	0.0		0.0		4.5	0.4	0.3	21.2
% behavioral health and social service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.6	0.1	0.0	0.0
% chiropractic providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% dental providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% dietary and nutritional service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% emergency medical service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.1	0.0	0.0	0.0
% eye and vision service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% nursing service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% nursing service-related providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% other service providers	0.0	0.0	0.3		0.0	0.0		0.0		0.1	0.0	0.0	2.0
% pharmacy service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% physician assistants and advanced practice nursing providers	0.0	0.0	0.0		0.0	0.0		0.0		0.2	0.0	0.0	0.0
% podiatric medicine and surgery service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.1	0.0	0.0	0.0
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% speech, language, and hearing service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.2	0.0	0.0	0.0
% student health care	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% technologists, technicians, and other technical service providers	0.1	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% group of individuals with multi- or single specialty	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% nonindividuals	99.7	99.8	99.7		100.0	100.0		100.0		94.2	99.4	99.7	76.9
% agencies	0.0	0.0	0.0		0.0	0.0		0.0		1.8	0.1	0.0	0.0
% ambulatory health care facilities	0.1	0.6	0.8		0.0	0.3		0.5		1.9	0.9	0.6	7.3
% hospital units	9.7	7.5	4.2		0.0	5.8		0.9		4.7	10.5	11.9	5.9
% hospitals	89.4	91.4	94.3		99.7	92.8		97.0		84.6	87.6	86.8	62.8
% laboratories	0.0	0.0	0.3		0.0	0.0		0.0		0.1	0.0	0.2	0.0
% managed care organizations	0.0	0.0	0.0		0.0	0.0		0.2		0.0	0.0	0.0	0.0
% nursing and custodial care facilities	0.3	0.0	0.0		0.0	1.1		0.0		0.4	0.0	0.3	0.0
% residential treatment facilities	0.0	0.2	0.0		0.0	0.0		0.9		0.0	0.0	0.0	0.7
% respite care facility	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% suppliers	0.2	0.0	0.0		0.3	0.0		0.5		0.5	0.3	0.0	0.2
% transportation services	0.0	0.0	0.0		0.0	0.0		0.0		0.1	0.0	0.0	0.0
% nonmedical	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0

2011 MAX IP Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	0	0	0		0	0		0		34	1	2	31
% a sole proprietorship	0.0	0.0	0.0		0.0	0.0		0.0		23.5	0.0	0.0	51.6
% not a sole proprietorship	0.0	0.0	0.0		0.0	0.0		0.0		55.9	100.0	100.0	45.2
% not answered	0.0	0.0	0.0		0.0	0.0		0.0		20.6	0.0	0.0	3.2
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	955	806	598		766	998		436		1,595	699	658	535
% organization is a subpart	11.7	10.0	7.5		9.1	9.3		6.4		10.0	10.3	13.4	13.6
% organization is not a subpart	74.9	82.9	84.3		82.5	82.1		85.8		81.3	81.4	75.5	75.3
% not answered	13.4	7.1	8.2		8.4	8.6		7.8		8.7	8.3	11.1	11.0

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

2011 MAX IP Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
IP Providers													
Number of provider IDs	368	397					2,019	877			884	325	849
% billing provider on IP claim	50.3	50.9					50.7	50.1			50.2	55.1	50.6
% NPI billing provider on IP claim	49.7	49.1					49.3	49.9			49.8	44.9	49.4
% also a provider on LT claim	2.4	4.8					23.1	0.5			0.0	9.2	0.4
% also a provider on OT claim	81.0	48.6					86.0	83.7			73.8	77.2	78.6
% also a provider on RX claim	3.3	1.5					6.1	5.9			0.1	11.4	3.2
% provider IDs with NPI	100.0	100.0					89.7	100.0			99.7	93.8	99.5
% provider IDs linked to NPPES	100.0	100.0					89.7	100.0			99.7	93.8	99.5
% provider IDs with or without NPI but linked to state provider file	0.0	0.0					0.0	0.0			0.0	0.0	0.0
average number of IP claims	124.9	240.1					2,120.1	797.3			395.0	403.7	477.0
average number of beneficiaries with IP claims	105.7	165.2					799.8	644.5			303.2	341.3	269.7
Provider IDs with NPI													
Number of provider IDs with NPI	368	397					1,811	877			881	305	845
% NPI source = MSIS	100.0	99.7					97.2	99.7			99.9	97.4	100.0
% NPI source = NPPES	0.0	0.3					2.8	0.3			0.1	2.6	0.0
% NPI source = state cross-reference file	0.0	0.0					0.0	0.0			0.0	0.0	0.0
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	368	397					1,811	877			881	305	845
% linked via NPI	100.0	99.7					97.2	99.7			99.9	97.4	100.0
% linked via Medicaid legacy provider ID	0.0	0.3					2.7	0.3			0.1	1.6	0.0
% linked via Medicare UPIN	0.0	0.0					0.1	0.0			0.0	1.0	0.0
% with name prefix	0.0	0.0					0.0	0.0			0.0	0.3	0.0
% with first name	0.0	0.0					0.1	0.0			0.0	0.7	0.0
% with middle name	0.0	0.0					0.0	0.0			0.0	0.7	0.0
% with last name	0.0	0.0					0.1	0.0			0.0	0.7	0.0
% with name suffix	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% male	0.0	0.0					0.0	0.0			0.0	0.3	0.0
% female	0.0	0.0					0.1	0.0			0.0	0.3	0.0
% with credential	0.0	0.0					0.1	0.0			0.0	0.7	0.0
% with business name	100.0	100.0					99.9	100.0			99.8	99.3	99.9
% with address line 1	100.0	100.0					100.0	100.0			99.8	100.0	99.9
% with city	100.0	100.0					100.0	100.0			99.8	100.0	99.9
% with state	100.0	100.0					100.0	100.0			99.8	100.0	99.9
% state = IP state code	38.0	45.1					40.6	40.5			43.6	53.1	59.8
% with zip code	100.0	100.0					100.0	100.0			99.8	100.0	99.9
% with primary taxonomy	98.9	100.0					99.3	100.0			99.5	100.0	99.4
% with provider entity type = individual	0.0	0.0					0.1	0.0			0.0	0.7	0.0
% with provider entity type = organization	100.0	100.0					99.9	100.0			99.8	99.3	99.9

Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
Provider IDs with or without NPI but linked to state provider file													
Number of provider IDs with or without NPI linked to state provider file	0		0				0	0			0	0	0
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	364		397				1,798	877			877	305	840
% individual or group of individuals	0.0		0.0				0.2	0.0			0.0	0.7	0.7
% allopathic and osteopathic physicians	0.0		0.0				0.1	0.0			0.0	0.7	0.5
% behavioral health and social service providers	0.0		0.0				0.0	0.0			0.0	0.0	0.0
% chiropractic providers	0.0		0.0				0.0	0.0			0.0	0.0	0.0
% dental providers	0.0		0.0				0.0	0.0			0.0	0.0	0.0
% dietary and nutritional service providers	0.0		0.0				0.0	0.0			0.0	0.0	0.0
% emergency medical service providers	0.0		0.0				0.0	0.0			0.0	0.0	0.0
% eye and vision service providers	0.0		0.0				0.0	0.0			0.0	0.0	0.0
% nursing service providers	0.0		0.0				0.1	0.0			0.0	0.0	0.0
% nursing service-related providers	0.0		0.0				0.0	0.0			0.0	0.0	0.0
% other service providers	0.0		0.0				0.0	0.0			0.0	0.0	0.2
% pharmacy service providers	0.0		0.0				0.0	0.0			0.0	0.0	0.0
% physician assistants and advanced practice nursing providers	0.0		0.0				0.0	0.0			0.0	0.0	0.0
% podiatric medicine and surgery service providers	0.0		0.0				0.0	0.0			0.0	0.0	0.0
% respiratory, developmental, rehabilitative, and restorative service providers	0.0		0.0				0.0	0.0			0.0	0.0	0.0
% speech, language, and hearing service providers	0.0		0.0				0.0	0.0			0.0	0.0	0.0
% student health care	0.0		0.0				0.0	0.0			0.0	0.0	0.0
% technologists, technicians, and other technical service providers	0.0		0.0				0.0	0.0			0.0	0.0	0.0
% group of individuals with multi- or single specialty	0.0		0.0				0.0	0.0			0.0	0.0	0.0
% nonindividuals	100.0		100.0				99.8	100.0			100.0	99.3	99.3
% agencies	0.0		0.0				2.1	0.0			0.0	0.0	0.0
% ambulatory health care facilities	2.5		20.7				3.3	0.2			0.2	0.7	0.0
% hospital units	6.3		2.5				14.5	11.2			10.9	10.5	11.0
% hospitals	90.7		76.8				78.1	87.9			86.3	86.9	88.3
% laboratories	0.0		0.0				0.0	0.0			0.0	0.0	0.0
% managed care organizations	0.0		0.0				0.0	0.0			0.0	1.3	0.0
% nursing and custodial care facilities	0.0		0.0				0.0	0.2			0.0	0.0	0.0
% residential treatment facilities	0.5		0.0				1.2	0.0			2.5	0.0	0.0
% respite care facility	0.0		0.0				0.0	0.0			0.0	0.0	0.0
% suppliers	0.0		0.0				0.3	0.2			0.0	0.0	0.0
% transportation services	0.0		0.0				0.2	0.2			0.0	0.0	0.0
% nonmedical	0.0		0.0				0.0	0.0			0.0	0.0	0.0

2011 MAX IP Billing Provider Characteristics Cross State Validation Table
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Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	0	0					1	0			0	2	0
% a sole proprietorship	0.0	0.0					100.0	0.0			0.0	0.0	0.0
% not a sole proprietorship	0.0	0.0					0.0	0.0			0.0	100.0	0.0
% not answered	0.0	0.0					0.0	0.0			0.0	0.0	0.0
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	368	397					1,810	877			879	303	844
% organization is a subpart	10.1	16.1					13.1	11.4			8.2	20.1	9.2
% organization is not a subpart	81.8	78.8					70.8	79.9			85.2	75.6	76.2
% not answered	8.2	5.0					16.1	8.7			6.6	4.3	14.6

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
IP Providers												
Number of provider IDs		4,147	358	1,828	823		189	1,349	545	400	473	239
% billing provider on IP claim		100.0	50.6	49.1	99.6		49.7	100.0	51.6	50.3	100.0	50.2
% NPI billing provider on IP claim		100.0	49.4	50.9	91.3		50.3	100.0	48.4	49.8	98.9	49.8
% also a provider on LT claim		0.0	0.8	39.1	2.3		10.6	20.0	3.3	1.5	0.0	5.9
% also a provider on OT claim		94.4	40.2	85.6	90.8		46.0	64.9	82.9	90.5	90.7	52.7
% also a provider on RX claim		87.9	0.3	0.7	0.1		0.0	7.9	7.7	0.3	5.7	5.4
% provider IDs with NPI		100.0	100.0	92.6	91.3		98.9	100.0	97.1	100.0	98.9	100.0
% provider IDs linked to NPPES		99.8	100.0	92.6	91.3		98.9	99.9	97.1	100.0	98.9	100.0
% provider IDs with or without NPI but linked to state provider file		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
average number of IP claims		30.7	134.9	363.1	1064.3		194.9	389.8	427.8	335.0	322.5	121.8
average number of beneficiaries with IP claims		26.2	115.6	191.6	851.6		144.3	178.4	319.6	215.6	263.6	102.5
Provider IDs with NPI												
Number of provider IDs with NPI		4,145	358	1,693	751		187	1,349	529	400	468	239
% NPI source = MSIS		100.0	100.0	100.0	100.0		100.0	100.0	100.0	99.5	100.0	100.0
% NPI source = NPPES		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.5	0.0	0.0
% NPI source = state cross-reference file		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Provider IDs Linked to NPPES												
Number of provider IDs linked to NPPES		4,140	358	1,693	751		187	1,348	529	400	468	239
% linked via NPI		100.0	100.0	100.0	100.0		100.0	100.0	100.0	99.5	100.0	100.0
% linked via Medicaid legacy provider ID		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.5	0.0	0.0
% linked via Medicare UPIN		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% with name prefix		41.5	0.0	0.1	0.4		0.0	0.1	0.0	0.0	0.0	0.0
% with first name		93.9	0.0	0.6	0.8		0.0	0.1	0.0	0.0	0.0	0.0
% with middle name		79.8	0.0	0.4	0.7		0.0	0.0	0.0	0.0	0.0	0.0
% with last name		93.9	0.0	0.6	0.8		0.0	0.1	0.0	0.0	0.0	0.0
% with name suffix		8.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% male		65.5	0.0	0.5	0.4		0.0	0.0	0.0	0.0	0.0	0.0
% female		28.3	0.0	0.1	0.4		0.0	0.1	0.0	0.0	0.0	0.0
% with credential		92.6	0.0	0.5	0.8		0.0	0.1	0.0	0.0	0.0	0.0
% with business name		6.1	100.0	99.2	98.8		100.0	99.9	100.0	100.0	100.0	100.0
% with address line 1		100.0	100.0	99.8	99.6		100.0	100.0	100.0	100.0	100.0	100.0
% with city		100.0	100.0	99.8	99.6		100.0	100.0	100.0	100.0	100.0	100.0
% with state		100.0	100.0	99.8	99.6		100.0	100.0	100.0	100.0	100.0	100.0
% state = IP state code		77.0	39.7	56.3	71.2		23.0	50.7	40.3	36.0	31.6	25.5
% with zip code		100.0	100.0	99.8	99.6		100.0	100.0	100.0	100.0	100.0	100.0
% with primary taxonomy		99.5	99.4	98.8	99.3		100.0	98.7	100.0	100.0	99.6	97.5
% with provider entity type = individual		93.9	0.0	0.6	0.8		0.0	0.1	0.0	0.0	0.0	0.0
% with provider entity type = organization		6.1	100.0	99.2	98.8		100.0	99.9	100.0	100.0	100.0	100.0

2011 MAX IP Billing Provider Characteristics Cross State Validation Table
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Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
Provider IDs with or without NPI but linked to state provider file												
Number of provider IDs with or without NPI linked to state provider file		0	0	0	0		0	0	0	0	0	0
Provider IDs with NPPES Primary Taxonomy												
Number of provider IDs with NPPES primary taxonomy		4,118	356	1,672	746		187	1,331	529	400	466	233
% individual or group of individuals		94.1	0.6	1.4	1.9		0.0	2.2	0.0	0.0	0.2	0.0
% allopathic and osteopathic physicians		87.6	0.6	1.0	1.1		0.0	0.8	0.0	0.0	0.2	0.0
% behavioral health and social service providers		0.0	0.0	0.3	0.1		0.0	0.0	0.0	0.0	0.0	0.0
% chiropractic providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% dental providers		0.2	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% dietary and nutritional service providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% emergency medical service providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% eye and vision service providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% nursing service providers		0.0	0.0	0.0	0.0		0.0	0.1	0.0	0.0	0.0	0.0
% nursing service-related providers		0.0	0.0	0.1	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% other service providers		3.2	0.0	0.0	0.0		0.0	0.2	0.0	0.0	0.0	0.0
% pharmacy service providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% physician assistants and advanced practice nursing providers		2.6	0.0	0.0	0.5		0.0	0.2	0.0	0.0	0.0	0.0
% podiatric medicine and surgery service providers		0.1	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% respiratory, developmental, rehabilitative, and restorative service providers		0.0	0.0	0.0	0.0		0.0	0.8	0.0	0.0	0.0	0.0
% speech, language, and hearing service providers		0.0	0.0	0.0	0.0		0.0	0.3	0.0	0.0	0.0	0.0
% student health care		0.4	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% technologists, technicians, and other technical service providers		0.0	0.0	0.0	0.1		0.0	0.0	0.0	0.0	0.0	0.0
% group of individuals with multi- or single specialty		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% nonindividuals		5.9	99.4	98.6	98.1		100.0	97.8	100.0	100.0	99.8	100.0
% agencies		0.0	0.6	0.5	0.4		0.0	0.3	0.0	0.0	0.0	0.0
% ambulatory health care facilities		0.1	1.1	0.4	2.5		1.1	23.5	0.8	0.0	0.2	0.9
% hospital units		0.5	7.6	5.0	3.4		3.7	1.1	4.7	4.0	4.7	0.0
% hospitals		5.3	90.2	56.5	91.2		95.2	54.2	94.5	96.0	94.4	95.7
% laboratories		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.2	0.0
% managed care organizations		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% nursing and custodial care facilities		0.0	0.0	33.0	0.0		0.0	18.3	0.0	0.0	0.0	0.0
% residential treatment facilities		0.0	0.0	2.2	0.4		0.0	0.0	0.0	0.0	0.0	3.4
% respite care facility		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% suppliers		0.0	0.0	0.8	0.3		0.0	0.1	0.0	0.0	0.2	0.0
% transportation services		0.0	0.0	0.1	0.0		0.0	0.3	0.0	0.0	0.0	0.0
% nonmedical		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0

2011 MAX IP Billing Provider Characteristics Cross State Validation Table
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Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
Provider IDs with Entity Type = Individual												
Number of provider IDs with entity type = individual		3,886	0	10	6		0	1	0	0	0	0
% a sole proprietorship		10.0	0.0	20.0	33.3		0.0	100.0	0.0	0.0	0.0	0.0
% not a sole proprietorship		85.7	0.0	80.0	66.7		0.0	0.0	0.0	0.0	0.0	0.0
% not answered		4.3	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Provider IDs with Entity Type = Organization												
Number of provider IDs with entity type = organization		252	358	1,680	742		187	1,347	529	400	468	239
% organization is a subpart		10.7	7.8	19.0	8.9		8.0	9.7	13.6	7.0	9.4	11.7
% organization is not a subpart		76.2	83.2	69.8	81.8		81.3	76.5	83.0	85.0	83.1	77.4
% not answered		13.1	8.9	11.1	9.3		10.7	13.9	3.4	8.0	7.5	10.9

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

2011 MAX LT Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
LT Providers													
Number of provider IDs	512	75		641			778	73	220		719	80	
% billing provider on LT claim	50.8	100.0		52.6			51.0	97.3	58.2		49.8	51.3	
% NPI billing provider on LT claim	49.2	97.3		47.4			49.0	97.3	41.8		50.2	48.8	
% also a provider on IP claim	0.4	14.7		1.7			0.5	5.5	1.4		0.1	87.5	
% also a provider on OT claim	47.9	20.0		3.7			1.5	72.6	89.5		1.1	73.8	
% also a provider on RX claim	0.0	0.0		0.0			0.1	1.4	3.2		1.0	10.0	
% provider IDs with NPI	100.0	100.0		99.2			100.0	97.3	99.1		99.7	96.3	
% provider IDs linked to NPPES	100.0	93.3		99.2			100.0	94.5	99.1		99.7	96.3	
% provider IDs with or without NPI but linked to state provider file	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
average number of LT claims	1146.7	234.1		2,516.8			759.1	712.1	621.1		3,210.9	29.0	
average number of beneficiaries with LT claims	116.3	33.2		99.9			92.6	86.0	61.7		105.7	7.5	
Provider IDs with NPI													
Number of provider IDs with NPI	512	75		636			778	71	218		717	77	
% NPI source = MSIS	100.0	97.3		99.8			98.1	100.0	99.1		99.9	100.0	
% NPI source = NPPES	0.0	2.7		0.2			1.9	0.0	0.9		0.1	0.0	
% NPI source = state cross-reference file	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	512	70		636			778	69	218		717	77	
% linked via NPI	100.0	97.1		99.8			98.1	100.0	99.1		99.9	100.0	
% linked via Medicaid legacy provider ID	0.0	2.9		0.2			1.9	0.0	0.9		0.1	0.0	
% linked via Medicare UPIN	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% with name prefix	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% with first name	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% with middle name	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% with last name	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% with name suffix	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% male	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% female	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% with credential	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% with business name	100.0	100.0		100.0			100.0	100.0	100.0		100.0	100.0	
% with address line 1	100.0	100.0		100.0			100.0	100.0	100.0		100.0	100.0	
% with city	100.0	100.0		100.0			100.0	100.0	100.0		100.0	100.0	
% with state	100.0	100.0		100.0			100.0	100.0	100.0		100.0	100.0	
% state = LT state code	100.0	52.9		97.5			94.5	75.4	67.9		99.2	100.0	
% with zip code	100.0	100.0		100.0			100.0	100.0	100.0		100.0	100.0	
% with primary taxonomy	99.0	97.1		98.7			97.9	95.7	99.1		100.0	100.0	
% with provider entity type = individual	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% with provider entity type = organization	100.0	100.0		100.0			100.0	100.0	100.0		100.0	100.0	

Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
Provider IDs with or without NPI but linked to state provider file													
Number of provider IDs with or without NPI linked to state provider file	0	0		0			0	0	0		0	0	
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	507	68		628			762	66	216		717	77	
% individual or group of individuals	0.0	1.5		1.0			0.0	1.5	0.0		0.0	3.9	
% allopathic and osteopathic physicians	0.0	0.0		0.0			0.0	0.0	0.0		0.0	2.6	
% behavioral health and social service providers	0.0	1.5		0.3			0.0	1.5	0.0		0.0	0.0	
% chiropractic providers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% dental providers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% dietary and nutritional service providers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% emergency medical service providers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% eye and vision service providers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% nursing service providers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% nursing service-related providers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% other service providers	0.0	0.0		0.6			0.0	0.0	0.0		0.0	1.3	
% pharmacy service providers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% physician assistants and advanced practice nursing providers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% podiatric medicine and surgery service providers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% speech, language, and hearing service providers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% student health care	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% technologists, technicians, and other technical service providers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% group of individuals with multi- or single specialty	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% nonindividuals	100.0	98.5		99.0			100.0	98.5	100.0		100.0	96.1	
% agencies	0.8	0.0		0.6			1.6	0.0	3.7		0.0	0.0	
% ambulatory health care facilities	0.0	1.5		0.6			0.0	1.5	0.0		0.0	0.0	
% hospital units	1.6	7.4		0.0			0.5	0.0	0.0		0.0	2.6	
% hospitals	4.3	25.0		4.8			6.0	10.6	4.6		0.3	33.8	
% laboratories	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% managed care organizations	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% nursing and custodial care facilities	87.2	35.3		86.5			91.6	77.3	59.7		99.7	54.5	
% residential treatment facilities	6.1	29.4		6.5			0.3	9.1	31.9		0.0	5.2	
% respite care facility	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% suppliers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% transportation services	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% nonmedical	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	

2011 MAX LT Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	0	0		0			0	0	0		0	0	
% a sole proprietorship	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% not a sole proprietorship	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% not answered	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	512	70		636			778	69	218		717	77	
% organization is a subpart	12.5	11.4		5.0			9.1	8.7	2.8		9.2	2.6	
% organization is not a subpart	65.0	61.4		66.5			51.8	69.6	61.0		74.5	68.8	
% not answered	22.5	27.1		28.5			39.1	21.7	36.2		16.3	28.6	

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

2011 MAX LT Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
LT Providers													
Number of provider IDs	2,233	2,035	1,360		748	1,283		530		1,194	1,494	531	1,097
% billing provider on LT claim	41.2	53.1	51.9		51.3	68.2		48.1		56.0	51.2	49.9	48.3
% NPI billing provider on LT claim	58.8	46.9	48.1		48.7	31.8		51.9		44.7	48.8	50.1	51.7
% also a provider on IP claim	0.4	3.0	0.1		0.3	1.7		3.0		20.4	6.0	10.5	0.0
% also a provider on OT claim	52.0	6.4	42.7		4.4	1.7		39.6		24.2	65.8	67.4	1.6
% also a provider on RX claim	0.3	0.1	0.1		0.3	0.1		2.1		12.6	0.8	1.1	0.0
% provider IDs with NPI	65.2	100.0	99.2		100.0	31.9		98.3		91.5	98.7	99.6	99.1
% provider IDs linked to NPPES	65.2	100.0	99.2		100.0	31.3		98.3		91.5	97.8	99.6	99.1
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
average number of LT claims	753.6	846.8	217.4		1,134.6	659.8		850.9		639.9	678.5	983.0	1,159.1
average number of beneficiaries with LT claims	93.2	50.5	29.6		98.7	83.6		116.9		91.8	44.4	106.6	78.6
Provider IDs with NPI													
Number of provider IDs with NPI	1,455	2,035	1,349		748	409		521		1,093	1,474	529	1,087
% NPI source = MSIS	100.0	99.3	99.1		100.0	100.0		99.8		99.0	99.2	99.8	97.4
% NPI source = NPPES	0.0	0.3	0.9		0.0	0.0		0.2		1.0	0.8	0.2	2.6
% NPI source = state cross-reference file	0.0	0.3	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	1,455	2,035	1,349		748	401		521		1,093	1,461	529	1,087
% linked via NPI	100.0	99.7	99.1		100.0	100.0		99.8		99.0	99.2	99.8	97.4
% linked via Medicaid legacy provider ID	0.0	0.3	0.9		0.0	0.0		0.2		0.9	0.8	0.2	2.6
% linked via Medicare UPIN	0.0	0.0	0.0		0.0	0.0		0.0		0.1	0.0	0.0	0.0
% with name prefix	0.0	0.0	0.0		0.0	0.0		0.0		0.1	0.0	0.4	0.0
% with first name	0.0	0.0	0.0		0.0	0.0		0.0		0.2	0.0	0.4	0.0
% with middle name	0.0	0.0	0.0		0.0	0.0		0.0		0.1	0.0	0.4	0.0
% with last name	0.0	0.0	0.0		0.0	0.0		0.0		0.2	0.0	0.4	0.0
% with name suffix	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% male	0.0	0.0	0.0		0.0	0.0		0.0		0.2	0.0	0.0	0.0
% female	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.4	0.0
% with credential	0.0	0.0	0.0		0.0	0.0		0.0		0.2	0.0	0.4	0.0
% with business name	100.0	100.0	100.0		99.7	100.0		100.0		99.7	100.0	99.6	99.9
% with address line 1	100.0	100.0	100.0		99.7	100.0		100.0		99.9	100.0	100.0	99.9
% with city	100.0	100.0	100.0		99.7	100.0		100.0		99.9	100.0	100.0	99.9
% with state	100.0	100.0	100.0		99.7	100.0		100.0		99.9	100.0	100.0	99.9
% state = LT state code	98.5	99.6	95.3		99.1	99.8		97.9		98.1	95.5	94.7	99.1
% with zip code	100.0	100.0	100.0		99.7	100.0		100.0		99.9	100.0	100.0	99.9
% with primary taxonomy	97.5	98.6	98.2		99.2	99.8		97.3		97.7	97.9	100.0	99.5
% with provider entity type = individual	0.0	0.0	0.0		0.0	0.0		0.0		0.2	0.0	0.4	0.0
% with provider entity type = organization	100.0	100.0	100.0		99.7	100.0		100.0		99.7	100.0	99.6	99.9

Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
Provider IDs with or without NPI but linked to state provider file													
Number of provider IDs with or without NPI linked to state provider file	0	0	0		0	0		0		0	0	0	0
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	1,418	2,007	1,325		742	400		507		1,068	1,431	529	1,082
% individual or group of individuals	0.0	0.2	0.3		0.4	0.3		0.2		2.5	0.3	0.4	0.0
% allopathic and osteopathic physicians	0.0	0.1	0.0		0.4	0.0		0.0		1.6	0.0	0.4	0.0
% behavioral health and social service providers	0.0	0.0	0.2		0.0	0.0		0.2		0.7	0.3	0.0	0.0
% chiropractic providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% dental providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% dietary and nutritional service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% emergency medical service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% eye and vision service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% nursing service providers	0.0	0.0	0.2		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% nursing service-related providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% other service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% pharmacy service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% physician assistants and advanced practice nursing providers	0.0	0.0	0.0		0.0	0.3		0.0		0.2	0.0	0.0	0.0
% podiatric medicine and surgery service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% speech, language, and hearing service providers	0.0	0.1	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% student health care	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% technologists, technicians, and other technical service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% group of individuals with multi- or single specialty	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% nonindividuals	100.0	99.8	99.7		99.6	99.8		99.8		97.5	99.7	99.6	100.0
% agencies	0.7	3.0	0.3		0.3	1.8		0.0		2.4	1.8	0.0	0.2
% ambulatory health care facilities	0.1	0.2	0.2		0.0	0.0		0.0		2.4	0.1	0.4	0.0
% hospital units	1.8	0.3	5.5		12.5	8.0		0.2		0.8	5.5	7.6	0.0
% hospitals	2.3	2.6	4.3		5.0	12.3		2.4		9.0	9.3	7.4	0.7
% laboratories	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% managed care organizations	0.5	0.0	0.0		0.0	0.0		0.2		0.0	0.0	0.4	0.0
% nursing and custodial care facilities	83.5	73.8	84.7		75.7	71.3		92.1		82.1	80.6	78.3	98.7
% residential treatment facilities	11.1	19.8	4.8		5.8	6.3		4.5		0.0	2.2	5.3	0.4
% respite care facility	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.1	0.0	0.0
% suppliers	0.0	0.0	0.0		0.3	0.3		0.4		0.7	0.0	0.4	0.0
% transportation services	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% nonmedical	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0

2011 MAX LT Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	0	0	0		0	0		0		2	0	2	0
% a sole proprietorship	0.0	0.0	0.0		0.0	0.0		0.0		100.0	0.0	100.0	0.0
% not a sole proprietorship	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% not answered	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	1,455	2,035	1,349		746	401		521		1,090	1,461	527	1,086
% organization is a subpart	12.1	6.8	11.3		19.2	5.5		7.9		14.2	16.2	20.9	7.7
% organization is not a subpart	50.5	56.5	63.5		63.7	63.3		71.8		66.7	47.4	58.8	74.5
% not answered	37.4	36.7	25.2		17.2	31.2		20.3		19.1	36.4	20.3	17.8

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

2011 MAX LT Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
LT Providers													
Number of provider IDs	248	242					3,400	1,823			889	347	1,936
% billing provider on LT claim	50.0	49.6					50.3	54.7			49.8	54.5	53.4
% NPI billing provider on LT claim	50.0	50.4					49.7	45.3			50.2	45.5	46.6
% also a provider on IP claim	3.6	7.9					13.7	0.2			0.0	8.6	0.2
% also a provider on OT claim	31.5	6.6					35.5	45.3			5.3	10.4	30.7
% also a provider on RX claim	0.8	0.8					3.2	0.1			0.0	4.0	0.1
% provider IDs with NPI	100.0	99.6					95.3	100.0			99.7	95.1	99.9
% provider IDs linked to NPPES	100.0	99.6					95.3	100.0			99.7	95.1	99.9
% provider IDs with or without NPI but linked to state provider file	0.0	0.0					0.0	0.0			0.0	0.0	0.0
average number of LT claims	493.4	621.8					6,942.5	1,187.2			1,452.4	566.8	1783.6
average number of beneficiaries with LT claims	44.9	69.0					97.4	62.6			68.7	68.5	99.1
Provider IDs with NPI													
Number of provider IDs with NPI	248	241					3,239	1,823			886	330	1,935
% NPI source = MSIS	100.0	99.2					96.6	99.9			99.7	97.9	100.0
% NPI source = NPPES	0.0	0.8					3.4	0.1			0.3	2.1	0.0
% NPI source = state cross-reference file	0.0	0.0					0.0	0.1			0.0	0.0	0.0
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	248	241					3,239	1,823			886	330	1,935
% linked via NPI	100.0	99.2					96.6	99.9			99.7	97.9	100.0
% linked via Medicaid legacy provider ID	0.0	0.8					3.4	0.1			0.3	1.5	0.0
% linked via Medicare UPIN	0.0	0.0					0.0	0.0			0.0	0.6	0.0
% with name prefix	0.0	0.0					1.0	0.0			0.0	0.3	0.0
% with first name	0.0	0.0					1.8	0.1			0.0	0.6	0.0
% with middle name	0.0	0.0					1.2	0.0			0.0	0.6	0.0
% with last name	0.0	0.0					1.8	0.1			0.0	0.6	0.0
% with name suffix	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% male	0.0	0.0					1.1	0.0			0.0	0.3	0.0
% female	0.0	0.0					0.7	0.1			0.0	0.3	0.0
% with credential	0.0	0.0					1.5	0.0			0.0	0.6	0.0
% with business name	100.0	100.0					98.2	99.9			99.8	99.4	100.0
% with address line 1	100.0	100.0					99.9	100.0			99.8	100.0	100.0
% with city	100.0	100.0					99.9	100.0			99.8	100.0	100.0
% with state	100.0	100.0					99.9	100.0			99.8	100.0	100.0
% state = LT state code	94.4	56.0					95.3	97.5			97.5	97.3	99.2
% with zip code	100.0	100.0					99.9	100.0			99.8	100.0	100.0
% with primary taxonomy	97.6	96.7					99.4	97.8			97.3	95.5	92.9
% with provider entity type = individual	0.0	0.0					1.8	0.1			0.0	0.6	0.0
% with provider entity type = organization	100.0	100.0					98.2	99.9			99.8	99.4	100.0

Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
Provider IDs with or without NPI but linked to state provider file													
Number of provider IDs with or without NPI linked to state provider file	0		0				0	0			0	0	0
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	242	233					3,219	1,782			862	315	1,797
% individual or group of individuals	0.0	0.0					1.9	0.3			0.2	0.6	0.4
% allopathic and osteopathic physicians	0.0	0.0					1.4	0.0			0.2	0.6	0.0
% behavioral health and social service providers	0.0	0.0					0.2	0.1			0.0	0.0	0.4
% chiropractic providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% dental providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% dietary and nutritional service providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% emergency medical service providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% eye and vision service providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% nursing service providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% nursing service-related providers	0.0	0.0					0.1	0.2			0.0	0.0	0.0
% other service providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% pharmacy service providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% physician assistants and advanced practice nursing providers	0.0	0.0					0.2	0.0			0.0	0.0	0.0
% podiatric medicine and surgery service providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% speech, language, and hearing service providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% student health care	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% technologists, technicians, and other technical service providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% group of individuals with multi- or single specialty	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% nonindividuals	100.0	100.0					98.1	99.7			99.8	99.4	99.6
% agencies	0.0	0.0					2.8	0.3			0.0	0.0	0.5
% ambulatory health care facilities	0.8	0.0					2.4	0.0			0.0	0.3	0.9
% hospital units	13.2	0.9					4.5	1.2			0.5	1.9	8.7
% hospitals	15.7	15.5					7.7	1.8			3.9	3.8	4.3
% laboratories	0.0	0.0					0.1	0.0			0.0	0.0	0.0
% managed care organizations	0.0	0.0					0.5	0.0			0.0	1.3	0.0
% nursing and custodial care facilities	64.5	57.9					75.5	81.8			91.2	84.4	81.2
% residential treatment facilities	5.8	25.8					4.4	14.6			4.2	7.6	4.1
% respite care facility	0.0	0.0					0.1	0.0			0.0	0.0	0.0
% suppliers	0.0	0.0					0.2	0.0			0.0	0.0	0.0
% transportation services	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% nonmedical	0.0	0.0					0.0	0.0			0.0	0.0	0.0

2011 MAX LT Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	0		0				57	2			0	2	0
% a sole proprietorship	0.0		0.0				36.8	100.0			0.0	0.0	0.0
% not a sole proprietorship	0.0		0.0				59.6	0.0			0.0	100.0	0.0
% not answered	0.0		0.0				3.5	0.0			0.0	0.0	0.0
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	248		241				3,180	1,821			884	328	1,935
% organization is a subpart	21.8		11.6				11.0	6.6			6.6	16.8	10.7
% organization is not a subpart	58.1		65.1				57.2	66.2			61.7	55.8	59.1
% not answered	20.2		23.2				31.7	27.1			31.8	27.4	30.2

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

2011 MAX LT Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
LT Providers												
Number of provider IDs		291	311	1,000	1,926		137	384	534	495	411	148
% billing provider on LT claim		100.0	51.8	50.9	99.7		50.4	100.0	50.6	47.5	100.0	50.0
% NPI billing provider on LT claim		8.9	48.2	49.1	99.1		49.6	100.0	49.4	52.5	99.0	50.0
% also a provider on IP claim		0.3	1.0	71.4	1.0		14.6	70.3	3.4	1.2	0.0	9.5
% also a provider on OT claim		5.8	7.7	66.9	51.1		8.8	19.0	9.2	2.8	95.9	23.0
% also a provider on RX claim		0.7	0.0	0.5	0.0		0.0	2.6	1.3	0.0	0.5	2.0
% provider IDs with NPI		80.4	100.0	93.4	99.4		100.0	100.0	99.1	95.4	99.0	100.0
% provider IDs linked to NPPES		80.1	100.0	93.4	98.9		100.0	100.0	99.1	95.2	99.0	100.0
% provider IDs with or without NPI but linked to state provider file		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
average number of LT claims		575.0	350.5	1,204.6	1882.9		729.9	1,129.3	1,312.0	508.8	637.3	413.0
average number of beneficiaries with LT claims		70.4	43.5	76.0	69.1		56.3	85.3	101.5	66.9	80.3	39.6
Provider IDs with NPI												
Number of provider IDs with NPI		234	311	934	1,914		137	384	529	472	407	148
% NPI source = MSIS		11.5	100.0	100.0	100.0		100.0	100.0	100.0	99.8	100.0	100.0
% NPI source = NPPES		88.5	0.0	0.0	0.0		0.0	0.0	0.0	0.2	0.0	0.0
% NPI source = state cross-reference file		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Provider IDs Linked to NPPES												
Number of provider IDs linked to NPPES		233	311	934	1,904		137	384	529	471	407	148
% linked via NPI		11.2	100.0	100.0	100.0		100.0	100.0	100.0	99.8	100.0	100.0
% linked via Medicaid legacy provider ID		88.8	0.0	0.0	0.0		0.0	0.0	0.0	0.2	0.0	0.0
% linked via Medicare UPIN		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% with name prefix		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% with first name		0.0	0.0	0.1	0.1		0.0	0.0	0.0	0.0	0.0	0.0
% with middle name		0.0	0.0	0.1	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% with last name		0.0	0.0	0.1	0.1		0.0	0.0	0.0	0.0	0.0	0.0
% with name suffix		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% male		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% female		0.0	0.0	0.1	0.1		0.0	0.0	0.0	0.0	0.0	0.0
% with credential		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% with business name		100.0	100.0	99.9	99.9		100.0	100.0	100.0	100.0	100.0	100.0
% with address line 1		100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0
% with city		100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0
% with state		100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0
% state = LT state code		99.1	96.8	98.1	99.7		73.0	95.3	95.8	86.4	98.8	77.0
% with zip code		100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0
% with primary taxonomy		100.0	95.8	98.1	98.5		97.1	96.9	98.1	99.2	99.3	95.9
% with provider entity type = individual		0.0	0.0	0.1	0.1		0.0	0.0	0.0	0.0	0.0	0.0
% with provider entity type = organization		100.0	100.0	99.9	99.9		100.0	100.0	100.0	100.0	100.0	100.0

Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
Provider IDs with or without NPI but linked to state provider file												
Number of provider IDs with or without NPI linked to state provider file		0	0	0	0		0	0	0	0	0	0
Provider IDs with NPPES Primary Taxonomy												
Number of provider IDs with NPPES primary taxonomy		233	298	916	1,875		133	372	519	467	404	142
% individual or group of individuals		0.0	0.7	0.7	0.2		0.0	0.0	0.0	0.4	0.0	0.0
% allopathic and osteopathic physicians		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.4	0.0	0.0
% behavioral health and social service providers		0.0	0.0	0.7	0.1		0.0	0.0	0.0	0.0	0.0	0.0
% chiropractic providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% dental providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% dietary and nutritional service providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% emergency medical service providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% eye and vision service providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% nursing service providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% nursing service-related providers		0.0	0.7	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% other service providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% pharmacy service providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% physician assistants and advanced practice nursing providers		0.0	0.0	0.0	0.1		0.0	0.0	0.0	0.0	0.0	0.0
% podiatric medicine and surgery service providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% respiratory, developmental, rehabilitative, and restorative service providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% speech, language, and hearing service providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% student health care		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% technologists, technicians, and other technical service providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% group of individuals with multi- or single specialty		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% nonindividuals		100.0	99.3	99.3	99.8		100.0	100.0	100.0	99.6	100.0	100.0
% agencies		0.0	1.0	0.5	1.3		0.0	0.8	0.0	0.4	0.2	0.0
% ambulatory health care facilities		0.0	0.0	0.7	0.2		0.0	0.0	0.0	0.0	0.0	0.0
% hospital units		0.4	10.1	4.1	1.5		9.0	6.5	7.7	6.0	0.0	15.5
% hospitals		4.7	11.1	6.9	2.8		13.5	9.4	5.8	7.7	2.5	14.1
% laboratories		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% managed care organizations		0.0	0.0	0.0	0.1		0.0	0.0	0.0	0.0	0.0	0.0
% nursing and custodial care facilities		88.0	75.8	81.8	87.0		75.9	80.4	86.1	77.3	97.0	53.5
% residential treatment facilities		6.9	1.3	5.1	6.9		1.5	3.0	0.4	8.1	0.2	16.9
% respite care facility		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% suppliers		0.0	0.0	0.2	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% transportation services		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% nonmedical		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0

2011 MAX LT Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
Provider IDs with Entity Type = Individual												
Number of provider IDs with entity type = individual		0	0	1	1		0	0	0	0	0	0
% a sole proprietorship		0.0	0.0	100.0	100.0		0.0	0.0	0.0	0.0	0.0	0.0
% not a sole proprietorship		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% not answered		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Provider IDs with Entity Type = Organization												
Number of provider IDs with entity type = organization		233	311	933	1,903		137	384	529	471	407	148
% organization is a subpart		15.5	25.1	31.9	4.3		5.8	13.5	17.0	6.4	11.3	20.3
% organization is not a subpart		41.2	46.0	46.9	65.8		62.0	60.9	69.0	60.1	53.3	63.5
% not answered		43.3	28.9	21.1	29.9		32.1	25.5	14.0	33.5	35.4	16.2

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
OT Providers													
Number of provider IDs	50,975	21,592		48,929			51,891	9,511	9,621		112,968	12,367	
% billing provider on OT claim	7.7	6.1		20.7			23.8	13.4	44.2		5.4	48.8	
% servicing provider on OT claim	62.6	64.0		54.7			57.1	99.4	54.9		68.4	55.3	
% NPI servicing provider on OT claim	37.4	36.0		45.3			42.9	89.7	45.1		31.6	44.7	
% also a provider on IP claim	1.1	0.0		0.3			0.5	0.7	1.6		0.8	1.5	
% also a provider on LT claim	0.1	0.0		0.0			0.0	0.2	1.6		0.0	0.5	
% also a provider on RX claim	1.1	14.3		15.2			25.1	39.4	33.0		20.2	5.3	
% provider IDs with NPI	100.0	68.4		81.8			87.0	89.9	71.7		98.5	69.0	
% provider IDs linked to NPPES	99.9	67.1		81.7			86.6	88.6	71.7		98.5	69.0	
% provider IDs with or without NPI but linked to state provider file	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
average number of OT claims	1302.0	511.9		1,502.7			1,268.0	1,876.0	1931.1		845.5	1215.6	
average number of beneficiaries with OT claims	229.0	82.0		211.0			177.5	209.0	262.9		179.5	207.2	
Provider IDs with NPI													
Number of provider IDs with NPI	50,961	14,768		40,029			45,169	8,546	6,902		111,231	8,531	
% NPI source = MSIS	100.0	97.2		94.7			99.8	99.9	94.6		99.7	97.1	
% NPI source = NPPES	0.0	2.8		5.3			0.2	0.1	5.4		0.3	2.9	
% NPI source = state cross-reference file	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	50,944	14,478		39,961			44,954	8,422	6,898		111,223	8,530	
% linked via NPI	100.0	97.1		94.7			99.8	99.9	94.6		99.7	97.1	
% linked via Medicaid legacy provider ID	0.0	2.8		4.7			0.2	0.1	5.4		0.3	2.4	
% linked via Medicare UPIN	0.0	0.1		0.7			0.0	0.0	0.0		0.0	0.5	
% with name prefix	38.8	32.7		40.1			35.9	34.9	25.8		39.3	40.7	
% with first name	86.5	93.6		88.6			80.5	88.3	57.6		85.8	65.5	
% with middle name	72.8	71.9		64.3			53.2	58.0	37.4		67.9	52.2	
% with last name	86.5	93.6		88.6			80.5	88.3	57.6		85.8	65.5	
% with name suffix	7.0	2.3		3.6			1.4	2.1	1.5		4.8	1.7	
% male	59.6	48.2		49.1			46.5	46.9	34.2		54.0	40.9	
% female	26.9	45.4		39.5			33.9	41.4	23.4		31.8	24.6	
% with credential	84.9	79.9		80.4			77.7	78.7	53.5		83.3	63.7	
% with business name	13.3	6.3		11.1			19.4	11.5	42.1		14.0	34.1	
% with address line 1	99.8	99.9		99.8			99.8	99.7	99.8		99.8	99.6	
% with city	99.8	99.9		99.8			99.8	99.7	99.8		99.8	99.6	
% with state	99.8	99.9		99.8			99.8	99.7	99.8		99.8	99.6	
% state = OT state code	77.7	58.5		77.1			72.3	60.3	55.4		85.1	88.1	
% with zip code	99.8	99.9		99.8			99.8	99.7	99.8		99.8	99.6	
% with primary taxonomy	97.8	98.3		98.9			97.5	98.5	97.6		98.3	97.1	
% with provider entity type = individual	86.5	93.6		88.6			80.5	88.3	57.6		85.8	65.5	
% with provider entity type = organization	13.3	6.3		11.1			19.4	11.5	42.1		14.0	34.1	

Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
Provider IDs with or without NPI but linked to state provider file													
Number of provider IDs with or without NPI linked to state provider file	0	0		0			0	0	0		0	0	
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	49,822	14,229		39,522			43,845	8,294	6,735		109,383	8,279	
% individual or group of individuals	88.2	94.2		91.6			87.6	90.8	72.4		87.4	81.0	
% allopathic and osteopathic physicians	61.1	51.3		46.4			59.7	53.6	59.9		57.8	48.0	
% behavioral health and social service providers	0.9	4.0		6.8			5.4	8.6	0.4		2.8	10.2	
% chiropractic providers	0.0	1.6		0.7			0.7	0.1	0.0		0.2	0.1	
% dental providers	3.7	5.3		2.1			4.8	3.0	3.8		3.4	3.5	
% dietary and nutritional service providers	0.0	0.3		0.0			0.0	0.2	0.1		0.0	0.2	
% emergency medical service providers	0.0	0.0		0.1			0.0	0.0	0.0		0.0	0.0	
% eye and vision service providers	2.3	2.0		2.2			1.7	1.1	0.4		1.4	3.9	
% nursing service providers	0.2	2.2		1.0			0.1	3.7	0.2		0.2	0.3	
% nursing service-related providers	0.0	0.5		0.5			0.0	0.0	0.0		0.0	0.1	
% other service providers	3.4	6.0		9.0			2.1	1.7	2.6		3.2	4.7	
% pharmacy service providers	0.1	0.0		0.1			0.0	0.0	0.0		0.1	0.0	
% physician assistants and advanced practice nursing providers	13.1	13.3		7.0			9.7	9.1	2.7		13.5	3.3	
% podiatric medicine and surgery service providers	0.3	0.3		0.6			1.0	0.9	1.3		0.8	0.7	
% respiratory, developmental, rehabilitative, and restorative service providers	1.4	5.2		7.1			1.5	5.0	0.0		2.0	5.2	
% speech, language, and hearing service providers	0.8	1.7		7.2			0.3	2.5	0.3		1.9	0.3	
% student health care	0.8	0.5		1.0			0.4	1.2	0.5		0.1	0.3	
% technologists, technicians, and other technical service providers	0.0	0.1		0.1			0.0	0.0	0.0		0.0	0.1	
% group of individuals with multi- or single specialty	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% nonindividuals	11.8	5.8		8.4			12.4	9.2	27.6		12.6	19.0	
% agencies	2.2	1.2		1.6			1.3	0.6	3.0		3.9	3.0	
% ambulatory health care facilities	1.1	0.9		1.2			1.8	1.7	3.9		1.7	4.1	
% hospital units	0.0	0.0		0.0			0.1	0.1	0.1		0.0	0.1	
% hospitals	2.1	0.2		0.4			3.1	2.5	5.5		1.4	2.8	
% laboratories	0.7	0.7		0.4			0.7	0.6	1.2		0.4	0.6	
% managed care organizations	0.0	0.0		0.0			0.0	0.0	0.1		0.0	1.6	
% nursing and custodial care facilities	0.1	0.8		0.2			0.1	0.1	1.4		0.2	0.7	
% residential treatment facilities	0.3	0.3		0.0			0.1	0.2	2.0		0.5	0.0	
% respite care facility	0.0	0.1		0.0			0.0	0.0	0.1		0.0	0.0	
% suppliers	4.5	1.1		3.8			4.0	2.7	10.0		4.0	5.6	
% transportation services	0.7	0.5		0.6			1.2	0.8	0.3		0.4	0.3	
% nonmedical	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	

2011 MAX OT Servicing Provider Characteristics Cross State Validation Table
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Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	44,049	13,552		35,415			36,169	7,433	3,976		95,441	5,588	
% a sole proprietorship	16.0	18.5		22.7			16.9	15.7	26.3		18.9	37.4	
% not a sole proprietorship	77.0	77.7		71.6			75.7	78.2	67.2		75.0	56.1	
% not answered	7.0	3.8		5.7			7.4	6.1	6.5		6.2	6.5	
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	6,794	909		4,451			8,701	966	2,907		15,539	2,910	
% organization is a subpart	12.0	8.9		16.1			8.2	12.8	5.7		12.0	7.3	
% organization is not a subpart	61.3	68.1		70.0			73.3	68.8	81.1		69.9	71.5	
% not answered	26.7	23.0		13.9			18.5	18.3	13.1		18.1	21.1	

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
OT Providers													
Number of provider IDs	149,873	58,393	67,256		59,109	47,565		97,503		205,939	119,594	34,634	64,339
% billing provider on OT claim	0.0	11.8	23.2		34.3	24.3		13.5		63.3	21.3	16.6	5.1
% servicing provider on OT claim	63.8	49.7	58.8		79.3	47.5		69.4		80.3	22.8	49.6	82.3
% NPI servicing provider on OT claim	36.2	50.3	43.0		46.5	52.5		30.6		20.0	77.2	50.4	17.7
% also a provider on IP claim	0.3	0.9	0.3		0.4	1.8		0.4		0.7	0.4	1.4	0.6
% also a provider on LT claim	0.5	0.2	0.2		0.0	0.0		0.2		0.1	0.7	1.0	0.0
% also a provider on RX claim	22.9	32.1	18.0		27.4	23.6		12.7		19.4	15.4	26.7	16.4
% provider IDs with NPI	72.1	96.5	97.3		90.9	90.7		60.3		38.1	91.6	99.6	82.1
% provider IDs linked to NPPES	72.0	95.4	81.5		90.9	85.8		49.6		38.1	48.8	99.4	49.3
% provider IDs with or without NPI but linked to state provider file	0.0	0.9	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
average number of OT claims	1055.3	1,175.2	654.9		1,288.7	2131.9		655.5		888.6	1018.3	1,771.8	1,040.2
average number of beneficiaries with OT claims	231.2	205.3	106.5		242.3	375.6		86.3		136.3	118.4	309.5	155.7
Provider IDs with NPI													
Number of provider IDs with NPI	107,988	56,349	65,428		53,704	43,145		58,822		78,552	109,571	34,487	52,818
% NPI source = MSIS	100.0	84.4	99.2		99.6	100.0		99.2		91.4	96.4	99.9	95.2
% NPI source = NPPES	0.0	6.3	0.8		0.4	0.0		0.8		8.6	3.6	0.1	4.8
% NPI source = state cross-reference file	0.0	9.3	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	107,981	55,686	54,801		53,704	40,833		48,373		78,492	58,307	34,416	31,723
% linked via NPI	100.0	93.6	99.0		99.6	100.0		99.0		91.4	93.3	99.9	92.0
% linked via Medicaid legacy provider ID	0.0	6.4	1.0		0.4	0.0		1.0		8.6	6.7	0.1	7.9
% linked via Medicare UPIN	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% with name prefix	39.5	33.0	29.2		33.9	33.8		37.4		24.1	23.2	38.4	10.5
% with first name	83.1	81.5	78.2		81.0	69.6		76.5		51.8	70.0	78.3	18.4
% with middle name	56.6	63.7	65.2		63.5	56.9		52.4		39.0	58.4	62.9	15.2
% with last name	83.1	81.5	78.2		81.0	69.6		76.5		51.8	70.0	78.3	18.4
% with name suffix	1.4	2.1	1.4		3.1	5.1		1.8		1.1	0.9	5.9	0.6
% male	49.1	52.8	52.0		52.2	43.5		43.2		34.5	37.4	50.1	11.5
% female	34.0	28.7	26.3		28.8	26.1		33.2		17.2	32.5	28.2	6.8
% with credential	79.4	79.6	77.1		79.8	67.7		73.2		50.3	65.7	76.2	17.8
% with business name	16.7	18.2	21.5		18.6	30.1		23.3		48.0	29.9	21.4	81.5
% with address line 1	99.8	99.7	99.8		99.7	99.7		99.8		99.8	99.8	99.7	99.8
% with city	99.8	99.7	99.8		99.7	99.7		99.8		99.8	99.8	99.7	99.8
% with state	99.8	99.7	99.8		99.7	99.7		99.8		99.8	99.8	99.7	99.8
% state = OT state code	75.8	75.5	62.1		64.5	83.8		77.4		85.9	81.9	62.1	82.4
% with zip code	99.8	99.7	99.8		99.7	99.7		99.8		99.8	99.8	99.7	99.8
% with primary taxonomy	98.3	98.8	98.6		98.8	98.7		98.2		98.1	98.4	98.5	97.8
% with provider entity type = individual	83.1	81.5	78.2		81.0	69.6		76.5		51.8	70.0	78.3	18.4
% with provider entity type = organization	16.7	18.2	21.5		18.6	30.1		23.3		48.0	29.9	21.4	81.5

2011 MAX OT Servicing Provider Characteristics Cross State Validation Table
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Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
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	554	0		0	0		0		0	0	0	0
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	106,133	55,010	54,040		53,059	40,316		47,497		76,963	57,372	33,892	31,017
% individual or group of individuals	83.9	86.5	86.6		84.3	79.5		86.7		77.3	73.2	85.3	58.6
% allopathic and osteopathic physicians	60.1	60.1	58.3		58.1	50.0		61.6		54.3	36.0	54.8	41.8
% behavioral health and social service providers	0.5	2.5	1.2		0.5	1.6		6.0		0.8	9.2	1.5	6.2
% chiropractic providers	0.9	1.9	5.0		1.8	0.2		0.1		2.9	3.3	0.7	0.3
% dental providers	4.0	4.7	5.0		4.6	4.1		4.4		4.4	4.8	3.5	1.6
% dietary and nutritional service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.4	0.0	0.0
% emergency medical service providers	0.0	0.1	0.1		0.0	0.0		0.0		0.0	0.0	0.0	0.1
% eye and vision service providers	1.7	2.9	2.7		2.0	1.3		0.6		2.1	1.9	2.1	2.1
% nursing service providers	0.2	0.1	0.1		0.1	0.5		0.3		0.2	0.4	0.5	0.1
% nursing service-related providers	0.0	0.0	0.0		0.0	1.3		0.0		0.0	0.0	0.2	0.3
% other service providers	1.8	1.5	1.0		1.4	3.6		4.1		2.6	1.0	2.8	2.1
% pharmacy service providers	0.1	0.0	0.1		0.0	0.0		0.0		0.1	0.2	0.1	0.1
% physician assistants and advanced practice nursing providers	6.1	8.7	9.0		13.8	13.5		5.2		6.7	11.2	15.2	1.7
% podiatric medicine and surgery service providers	1.1	1.1	1.0		0.7	0.6		1.4		1.8	0.5	0.5	1.0
% respiratory, developmental, rehabilitative, and restorative service providers	4.2	1.7	2.3		0.6	0.8		1.5		0.8	2.7	1.6	0.6
% speech, language, and hearing service providers	2.6	0.7	0.6		0.2	1.2		0.4		0.4	1.1	1.0	0.5
% student health care	0.4	0.2	0.3		0.4	0.7		1.0		0.1	0.4	0.5	0.0
% technologists, technicians, and other technical service providers	0.0	0.0	0.0		0.0	0.1		0.1		0.0	0.0	0.0	0.1
% group of individuals with multi- or single specialty	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% nonindividuals	16.1	13.5	13.4		15.7	20.5		13.3		22.7	26.8	14.7	41.4
% agencies	2.7	1.7	3.0		4.3	8.6		1.7		2.3	3.6	1.5	9.9
% ambulatory health care facilities	2.2	1.3	2.0		1.4	3.6		3.4		5.1	2.5	3.0	14.4
% hospital units	0.1	0.1	0.0		0.0	0.0		0.0		0.1	0.1	0.0	0.1
% hospitals	2.1	1.8	0.7		0.8	3.1		1.8		5.8	12.1	2.9	3.8
% laboratories	0.4	0.6	0.5		0.8	0.6		0.5		0.5	0.6	0.8	1.1
% managed care organizations	0.0	0.0	0.0		0.0	0.7		0.1		0.4	0.1	0.1	0.1
% nursing and custodial care facilities	1.1	0.2	1.0		0.1	0.5		0.9		0.1	2.0	1.2	1.1
% residential treatment facilities	0.4	0.1	0.3		0.3	0.4		0.1		0.1	0.7	0.0	2.5
% respite care facility	0.0	0.0	0.0		0.0	0.3		0.0		0.0	0.0	0.1	0.1
% suppliers	5.8	6.4	4.4		6.8	2.4		4.0		7.3	4.4	4.6	6.9
% transportation services	1.3	1.2	1.4		1.1	0.3		0.8		1.1	0.7	0.4	1.5
% nonmedical	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0

2011 MAX OT Servicing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	89,722	45,391	42,880		43,513	28,427		36,992		40,628	40,795	26,947	5,835
% a sole proprietorship	18.2	13.9	11.0		14.4	23.4		21.1		18.3	12.5	19.8	38.1
% not a sole proprietorship	74.9	81.2	78.8		81.4	69.2		69.4		72.6	75.5	74.2	56.3
% not answered	6.8	4.9	10.1		4.3	7.4		9.5		9.1	12.0	6.0	5.6
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	18,047	10,145	11,787		10,013	12,302		11,285		37,705	17,416	7,373	25,840
% organization is a subpart	19.8	14.4	10.5		12.5	6.0		9.8		10.2	11.4	13.2	13.2
% organization is not a subpart	63.0	70.7	67.9		74.6	69.0		75.3		75.8	74.5	71.4	73.0
% not answered	17.2	14.9	21.6		12.9	25.0		14.9		14.0	14.0	15.4	13.8

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

2011 MAX OT Servicing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
OT Providers													
Number of provider IDs	18,509	24,748					272,853	105,377			56,918	66,742	100,668
% billing provider on OT claim	24.5	0.0					34.8	18.9			11.8	39.1	20.1
% servicing provider on OT claim	52.7	50.1					46.9	51.9			50.3	84.3	57.8
% NPI servicing provider on OT claim	47.3	49.9					53.1	48.1			49.7	28.4	42.2
% also a provider on IP claim	1.5	0.6					0.5	0.7			0.5	0.2	0.7
% also a provider on LT claim	0.4	0.1					0.4	0.8			0.1	0.0	0.6
% also a provider on RX claim	17.4	21.4					28.9	24.8			20.2	19.2	4.5
% provider IDs with NPI	97.6	99.9					94.5	100.0			96.1	59.9	89.8
% provider IDs linked to NPPES	97.6	95.3					94.1	100.0			94.5	59.9	89.8
% provider IDs with or without NPI but linked to state provider file	0.0	0.0					0.0	0.0			0.0	0.0	0.0
average number of OT claims	580.5	463.2					1,600.3	1,961.1			1,170.5	490.4	516.8
average number of beneficiaries with OT claims	97.6	89.1					239.0	281.7			187.1	103.8	89.3
Provider IDs with NPI													
Number of provider IDs with NPI	18,060	24,722					257,818	105,340			54,697	40,007	90,395
% NPI source = MSIS	100.0	100.0					97.7	99.9			99.4	99.0	100.0
% NPI source = NPPES	0.0	0.0					2.3	0.0			0.6	1.0	0.0
% NPI source = state cross-reference file	0.0	0.0					0.0	0.1			0.0	0.0	0.0
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	18,060	23,581					256,761	105,334			53,803	40,007	90,393
% linked via NPI	100.0	100.0					97.7	100.0			99.4	99.0	100.0
% linked via Medicaid legacy provider ID	0.0	0.0					2.3	0.0			0.4	0.2	0.0
% linked via Medicare UPIN	0.0	0.0					0.0	0.0			0.2	0.8	0.0
% with name prefix	30.4	34.8					43.3	35.3			36.0	40.3	39.1
% with first name	80.1	87.0					86.2	70.2			85.4	90.3	84.0
% with middle name	62.4	60.4					51.9	57.4			66.4	74.0	61.8
% with last name	80.1	87.0					86.2	70.2			85.4	90.3	84.0
% with name suffix	1.5	1.8					1.2	4.0			2.8	1.7	2.5
% male	47.2	51.6					46.4	39.6			46.6	53.0	55.7
% female	32.9	35.4					39.8	30.6			38.8	37.3	28.3
% with credential	74.9	72.3					80.6	67.3			76.4	88.0	81.3
% with business name	19.8	12.7					13.4	29.6			14.3	9.5	15.9
% with address line 1	99.9	99.7					99.6	99.8			99.7	99.8	99.8
% with city	99.9	99.7					99.6	99.8			99.7	99.8	99.8
% with state	99.9	99.7					99.6	99.8			99.7	99.8	99.8
% state = OT state code	61.1	74.1					83.0	88.0			75.9	75.1	88.6
% with zip code	99.9	99.7					99.6	99.8			99.7	99.8	99.8
% with primary taxonomy	98.0	98.6					98.0	98.4			98.6	98.1	98.6
% with provider entity type = individual	80.1	87.0					86.2	70.2			85.4	90.3	84.0
% with provider entity type = organization	19.8	12.7					13.4	29.6			14.3	9.5	15.9

Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
Provider IDs with or without NPI but linked to state provider file													
Number of provider IDs with or without NPI linked to state provider file	0		0				0	2			0	0	0
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	17,694	23,251					251,678	103,602			53,051	39,232	89,091
% individual or group of individuals	81.1	87.9					90.6	77.8			87.8	91.6	85.1
% allopathic and osteopathic physicians	47.0	48.7					51.4	44.4			44.6	55.8	63.7
% behavioral health and social service providers	7.5	10.0					9.1	9.7			19.8	4.0	0.5
% chiropractic providers	1.1	0.2					0.3	1.1			0.1	0.7	1.2
% dental providers	4.6	4.0					4.9	4.1			2.8	5.8	2.8
% dietary and nutritional service providers	0.1	0.0					0.3	0.0			0.4	0.2	0.0
% emergency medical service providers	0.1	0.0					0.1	0.0			0.1	0.1	0.1
% eye and vision service providers	2.0	1.7					1.7	2.0			2.2	2.1	1.4
% nursing service providers	0.1	0.8					5.0	0.1			0.6	1.1	0.5
% nursing service-related providers	0.0	0.1					0.0	0.3			0.1	0.0	0.0
% other service providers	1.4	3.4					3.2	2.2			3.5	3.0	4.3
% pharmacy service providers	0.0	0.0					0.2	0.1			0.1	0.0	0.0
% physician assistants and advanced practice nursing providers	10.9	6.1					8.6	8.1			8.6	12.8	2.5
% podiatric medicine and surgery service providers	0.4	0.6					1.4	0.6			0.4	0.8	1.6
% respiratory, developmental, rehabilitative, and restorative service providers	4.2	10.6					2.7	2.5			1.9	3.7	4.1
% speech, language, and hearing service providers	1.4	1.3					0.8	2.3			1.8	0.9	2.2
% student health care	0.2	0.3					1.0	0.2			0.7	0.4	0.3
% technologists, technicians, and other technical service providers	0.0	0.1					0.0	0.0			0.1	0.0	0.0
% group of individuals with multi- or single specialty	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% nonindividuals	18.9	12.1					9.4	22.2			12.2	8.4	14.9
% agencies	4.1	1.5					1.5	6.9			2.6	0.9	3.6
% ambulatory health care facilities	2.1	1.8					1.0	1.8			1.7	1.6	2.4
% hospital units	0.0	0.0					0.1	0.0			0.0	0.0	0.1
% hospitals	3.7	3.5					1.3	1.6			2.3	0.4	1.6
% laboratories	0.8	0.3					0.2	0.3			0.5	0.9	0.4
% managed care organizations	0.0	0.1					0.0	0.1			0.0	0.0	0.0
% nursing and custodial care facilities	1.4	0.2					0.3	3.2			0.2	0.1	0.6
% residential treatment facilities	0.2	0.1					0.1	1.5			0.2	0.5	0.1
% respite care facility	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% suppliers	5.2	4.1					4.2	6.3			3.7	3.1	4.2
% transportation services	1.3	0.6					0.8	0.5			0.8	1.0	1.9
% nonmedical	0.0	0.0					0.0	0.0			0.0	0.0	0.0

2011 MAX OT Servicing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	14,458	20,516					221,365	73,963			45,958	36,124	75,894
% a sole proprietorship	19.8	27.3					30.5	19.1			25.7	17.6	16.2
% not a sole proprietorship	75.3	67.9					62.2	76.4			69.9	76.3	73.6
% not answered	4.8	4.8					7.2	4.5			4.3	6.1	10.3
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	3,575	3,005					34,407	31,139			7,676	3,785	14,342
% organization is a subpart	11.7	16.9					9.1	10.1			12.1	13.8	11.2
% organization is not a subpart	70.1	73.7					70.2	72.7			68.1	69.5	66.8
% not answered	18.2	9.4					20.7	17.2			19.7	16.6	22.0

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
OT Providers												
Number of provider IDs		50,142	18,320	75,677	115,920		16,404	80,144	68,353	33,077	47,656	22,305
% billing provider on OT claim		35.1	50.0	33.7	68.7		16.0	38.2	9.7	11.6	67.6	9.5
% servicing provider on OT claim		89.1	50.2	74.5	92.4		48.1	50.0	50.0	50.5	99.1	57.0
% NPI servicing provider on OT claim		33.9	49.8	26.4	71.4		51.9	50.0	50.0	49.5	53.4	43.0
% also a provider on IP claim		7.6	0.8	1.7	0.6		0.1	1.1	0.7	1.1	0.9	0.1
% also a provider on LT claim		0.0	0.1	0.7	0.8		0.0	0.1	0.1	0.0	0.8	0.0
% also a provider on RX claim		28.7	0.8	27.9	1.7		24.9	26.4	32.2	5.8	49.8	28.3
% provider IDs with NPI		64.0	83.1	75.5	76.5		99.2	100.0	99.9	96.8	62.9	84.5
% provider IDs linked to NPPES		38.7	80.8	75.5	74.8		99.1	96.0	99.5	96.8	62.9	84.4
% provider IDs with or without NPI but linked to state provider file		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
average number of OT claims		703.0	332.7	1,184.5	2103.9		789.8	697.6	1,230.4	917.2	1079.2	255.8
average number of beneficiaries with OT claims		111.8	79.5	244.5	313.5		121.5	148.9	202.3	139.7	199.7	43.7
Provider IDs with NPI												
Number of provider IDs with NPI		32,093	15,222	57,162	88,624		16,270	80,144	68,316	32,029	29,954	18,848
% NPI source = MSIS		84.5	92.1	99.4	99.9		99.9	100.0	100.0	96.4	97.5	98.1
% NPI source = NPPES		15.5	7.9	0.6	0.1		0.1	0.0	0.0	3.6	2.5	1.9
% NPI source = state cross-reference file		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Provider IDs Linked to NPPES												
Number of provider IDs linked to NPPES		19,412	14,798	57,155	86,699		16,259	76,956	67,997	32,029	29,954	18,832
% linked via NPI		74.4	91.8	99.4	99.9		99.9	100.0	100.0	96.4	97.5	98.1
% linked via Medicaid legacy provider ID		23.8	8.2	0.0	0.0		0.1	0.0	0.0	3.5	2.5	1.9
% linked via Medicare UPIN		1.8	0.0	0.5	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% with name prefix		45.2	21.5	29.7	36.4		48.0	36.8	31.5	36.3	24.5	35.5
% with first name		96.2	68.8	65.3	79.2		95.0	80.7	85.7	83.2	65.4	92.2
% with middle name		82.1	55.6	52.4	59.5		71.6	62.6	68.8	65.6	53.4	68.2
% with last name		96.2	68.8	65.3	79.2		95.0	80.7	85.7	83.2	65.4	92.2
% with name suffix		8.3	0.9	3.4	3.0		1.9	3.6	1.5	3.3	0.8	1.6
% male		64.8	42.5	39.2	46.9		50.0	48.3	48.8	52.9	32.1	56.5
% female		31.4	26.2	26.1	32.2		45.1	32.4	36.9	30.3	33.2	35.7
% with credential		94.2	66.6	63.0	76.7		92.0	77.8	81.4	79.3	62.0	86.3
% with business name		3.6	31.1	34.5	20.5		4.8	19.1	14.1	16.6	34.4	7.6
% with address line 1		99.8	99.9	99.8	99.7		99.9	99.8	99.8	99.8	99.8	99.8
% with city		99.8	99.9	99.8	99.7		99.9	99.8	99.8	99.8	99.8	99.8
% with state		99.8	99.9	99.8	99.7		99.9	99.8	99.8	99.8	99.8	99.8
% state = OT state code		77.6	58.7	75.5	93.7		54.0	70.1	80.2	50.4	69.7	35.5
% with zip code		99.8	99.9	99.8	99.7		99.9	99.8	99.8	99.8	99.8	99.8
% with primary taxonomy		99.1	98.5	98.5	98.4		97.4	98.0	98.8	98.6	98.2	98.6
% with provider entity type = individual		96.2	68.8	65.3	79.2		95.0	80.7	85.7	83.2	65.4	92.2
% with provider entity type = organization		3.6	31.1	34.5	20.5		4.8	19.1	14.1	16.6	34.4	7.6

Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
Provider IDs with or without NPI but linked to state provider file												
Number of provider IDs with or without NPI linked to state provider file		0	0	0	0		0	0	0	0	0	0
Provider IDs with NPPES Primary Taxonomy												
Number of provider IDs with NPPES primary taxonomy		19,242	14,582	56,326	85,344		15,829	75,426	67,187	31,584	29,418	18,565
% individual or group of individuals		97.4	77.9	70.7	81.2		95.9	84.2	89.9	84.9	69.1	93.7
% allopathic and osteopathic physicians		75.7	46.3	36.2	48.4		53.1	56.3	55.0	54.8	23.6	61.5
% behavioral health and social service providers		0.3	4.0	5.7	6.1		14.1	6.9	1.9	2.0	11.0	5.1
% chiropractic providers		0.4	3.7	0.4	0.5		1.6	0.1	0.1	0.9	4.3	0.3
% dental providers		4.9	0.3	4.6	5.7		4.1	3.7	5.6	3.7	4.3	3.5
% dietary and nutritional service providers		0.0	0.1	0.0	0.2		0.5	0.0	0.4	0.0	0.0	0.0
% emergency medical service providers		0.1	0.1	0.1	0.0		0.0	0.0	0.0	0.0	0.1	0.1
% eye and vision service providers		2.1	2.7	2.5	1.9		1.3	2.2	2.5	1.4	2.3	1.6
% nursing service providers		0.1	0.1	0.5	0.2		0.5	0.2	0.3	0.9	0.4	0.7
% nursing service-related providers		0.0	0.0	0.0	0.1		0.0	0.0	0.0	0.1	0.0	0.0
% other service providers		2.7	1.0	2.8	2.3		1.5	2.7	2.1	5.1	0.6	5.0
% pharmacy service providers		0.0	0.0	0.0	0.0		0.0	0.1	0.0	0.1	0.1	0.1
% physician assistants and advanced practice nursing providers		9.6	14.7	13.3	10.3		12.2	9.0	13.7	8.5	11.0	11.6
% podiatric medicine and surgery service providers		0.8	0.6	0.4	0.9		0.4	1.0	0.8	0.6	0.5	0.5
% respiratory, developmental, rehabilitative, and restorative service providers		0.2	2.6	2.8	2.0		3.4	0.9	5.6	2.5	8.4	1.8
% speech, language, and hearing service providers		0.4	1.3	1.1	1.9		1.1	0.5	1.4	3.6	2.2	0.7
% student health care		0.2	0.3	0.3	0.4		2.1	0.6	0.3	0.4	0.3	1.0
% technologists, technicians, and other technical service providers		0.0	0.0	0.0	0.2		0.0	0.0	0.0	0.0	0.0	0.1
% group of individuals with multi- or single specialty		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% nonindividuals		2.6	22.1	29.3	18.8		4.1	15.8	10.1	15.1	30.9	6.3
% agencies		0.6	3.5	2.8	6.7		0.6	3.3	1.1	2.6	3.4	1.6
% ambulatory health care facilities		0.5	4.3	2.3	2.7		0.2	1.6	2.3	1.6	2.8	1.1
% hospital units		0.0	0.0	0.1	0.0		0.0	0.0	0.0	0.0	0.1	0.0
% hospitals		0.6	4.4	18.5	1.2		0.1	2.4	1.7	2.0	14.9	0.5
% laboratories		0.0	0.7	0.7	0.3		0.4	0.5	0.4	1.2	0.6	0.5
% managed care organizations		0.0	0.0	0.0	0.1		0.0	0.1	0.0	0.0	0.0	0.0
% nursing and custodial care facilities		0.2	1.8	1.1	2.1		0.0	0.1	0.0	0.1	1.8	0.1
% residential treatment facilities		0.0	0.3	0.1	0.1		0.1	0.6	0.1	0.2	0.1	0.0
% respite care facility		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.1
% suppliers		0.4	4.9	2.5	4.6		1.2	6.2	3.8	5.6	5.8	1.9
% transportation services		0.3	2.2	1.2	1.0		1.4	0.9	0.7	1.7	1.5	0.5
% nonmedical		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0

2011 MAX OT Servicing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
Provider IDs with Entity Type = Individual												
Number of provider IDs with entity type = individual		18,684	10,176	37,323	68,634		15,451	62,074	58,285	26,656	19,578	17,354
% a sole proprietorship		12.1	10.1	19.4	24.8		21.9	15.2	14.6	18.9	12.7	16.9
% not a sole proprietorship		83.6	83.6	73.4	71.4		71.2	78.7	80.7	72.6	77.8	78.8
% not answered		4.3	6.2	7.1	3.7		6.8	6.1	4.7	8.5	9.5	4.3
Provider IDs with Entity Type = Organization												
Number of provider IDs with entity type = organization		692	4,605	19,707	17,806		786	14,708	9,600	5,305	10,314	1,432
% organization is a subpart		7.7	9.9	8.1	11.4		6.9	10.5	14.1	10.4	13.8	8.2
% organization is not a subpart		74.3	71.8	82.8	69.9		64.1	73.9	70.7	72.4	74.3	68.4
% not answered		18.1	18.3	9.2	18.8		29.0	15.6	15.2	17.2	11.9	23.4

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

2011 MAX OT Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
OT Providers													
Number of provider IDs	7,986	3,515		12,529			14,701	2,072	4,574		24,340	6,815	
% billing provider on OT claim	100.0	100.0		100.0			100.0	100.0	100.0		100.0	100.0	
% servicing provider on OT claim	49.0	8.8		81.0			83.9	58.7	93.0		25.0	88.5	
% NPI servicing provider on OT claim	0.0	28.9		0.0			0.0	58.0	0.0		0.0	0.0	
% also a provider on IP claim	3.7	2.3		1.9			0.4	2.7	1.7		0.6	1.4	
% also a provider on LT claim	2.7	0.4		0.1			0.0	2.5	2.5		0.0	0.4	
% also a provider on RX claim	0.0	2.6		22.7			6.0	20.6	56.1		0.5	5.9	
% provider IDs with NPI	62.2	37.0		49.3			81.9	62.3	40.6		26.1	35.8	
% provider IDs linked to NPPES	62.2	36.7		49.2			81.9	60.3	40.6		26.1	35.8	
% provider IDs with or without NPI but linked to state provider file	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
average number of OT claims	4363.3	2,231.5		3,922.8			2,733.3	6,775.9	2671.0		3,408.5	1770.1	
average number of beneficiaries with OT claims	618.9	229.3		416.1			331.3	477.8	375.4		485.8	273.1	
Provider IDs with NPI													
Number of provider IDs with NPI	4,970	1,302		6,172			12,044	1,290	1,858		6,350	2,440	
% NPI source = MSIS	83.1	93.5		72.9			98.7	96.7	79.4		94.4	89.2	
% NPI source = NPPES	16.9	6.5		27.1			1.3	3.3	20.6		5.6	10.8	
% NPI source = state cross-reference file	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	4,970	1,290		6,168			12,040	1,250	1,857		6,350	2,440	
% linked via NPI	83.1	93.5		72.8			98.7	96.6	79.4		94.4	89.2	
% linked via Medicaid legacy provider ID	16.1	6.4		27.2			1.3	3.4	20.5		5.6	8.8	
% linked via Medicare UPIN	0.8	0.1		0.0			0.0	0.0	0.1		0.0	2.0	
% with name prefix	13.7	29.2		30.8			29.7	21.3	21.8		42.1	38.9	
% with first name	21.4	57.8		54.5			63.4	35.9	41.7		73.8	61.4	
% with middle name	19.1	47.3		45.6			43.8	28.6	28.2		60.0	49.1	
% with last name	21.4	57.8		54.5			63.4	35.9	41.7		73.8	61.4	
% with name suffix	2.5	1.5		3.3			1.1	1.4	1.4		4.8	1.8	
% male	17.5	33.7		39.8			40.3	23.3	26.7		46.0	37.5	
% female	3.9	24.1		14.8			23.1	12.6	15.0		27.8	23.9	
% with credential	20.8	54.3		53.0			62.1	34.6	39.6		71.5	59.9	
% with business name	78.5	42.2		45.3			36.4	63.1	58.1		25.8	38.1	
% with address line 1	99.8	100.0		99.8			99.8	99.0	99.8		99.6	99.5	
% with city	99.8	100.0		99.8			99.8	99.0	99.8		99.6	99.5	
% with state	99.8	100.0		99.8			99.8	99.0	99.8		99.6	99.5	
% state = OT state code	80.4	84.9		82.9			79.7	73.7	52.6		78.7	86.6	
% with zip code	99.8	100.0		99.8			99.8	99.0	99.8		99.6	99.5	
% with primary taxonomy	94.5	97.4		98.9			97.1	97.4	98.5		97.4	97.0	
% with provider entity type = individual	21.4	57.8		54.5			63.4	35.9	41.7		73.8	61.4	
% with provider entity type = organization	78.5	42.2		45.3			36.4	63.1	58.1		25.8	38.1	

Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
Provider IDs with or without NPI but linked to state provider file													
Number of provider IDs with or without NPI linked to state provider file	0	0		0			0	0	0		0	0	
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	4,698	1,256		6,098			11,692	1,218	1,829		6,182	2,368	
% individual or group of individuals	37.1	61.5		69.7			77.5	52.8	49.5		81.5	75.2	
% allopathic and osteopathic physicians	21.8	20.5		38.4			56.3	29.0	36.0		44.2	36.8	
% behavioral health and social service providers	0.8	1.4		1.5			4.4	6.8	0.9		12.8	14.9	
% chiropractic providers	0.1	4.4		1.8			1.0	0.1	0.0		0.7	0.2	
% dental providers	5.4	12.9		6.8			3.5	6.9	4.9		6.2	2.7	
% dietary and nutritional service providers	0.0	1.4		0.0			0.0	0.1	0.2		0.0	0.3	
% emergency medical service providers	0.0	0.0		0.1			0.0	0.2	0.0		0.1	0.0	
% eye and vision service providers	3.5	3.5		5.6			2.7	1.7	0.7		3.0	5.0	
% nursing service providers	0.2	0.2		0.1			0.0	1.1	0.1		0.1	0.5	
% nursing service-related providers	0.0	0.3		0.2			0.0	0.2	0.0		0.0	0.1	
% other service providers	2.9	3.7		4.5			2.6	1.9	2.1		4.4	4.6	
% pharmacy service providers	0.4	0.1		0.2			0.0	0.0	0.1		0.1	0.1	
% physician assistants and advanced practice nursing providers	0.5	5.0		2.7			4.7	2.0	2.1		4.5	3.0	
% podiatric medicine and surgery service providers	0.6	0.4		1.3			1.4	1.6	1.9		1.2	0.8	
% respiratory, developmental, rehabilitative, and restorative service providers	0.3	4.7		2.2			0.4	1.0	0.1		1.9	5.4	
% speech, language, and hearing service providers	0.3	2.8		3.9			0.2	0.1	0.3		1.9	0.3	
% student health care	0.0	0.3		0.2			0.2	0.1	0.1		0.1	0.1	
% technologists, technicians, and other technical service providers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.2	
% group of individuals with multi- or single specialty	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% nonindividuals	62.9	38.5		30.3			22.5	47.2	50.5		18.5	24.8	
% agencies	9.7	4.5		6.1			2.1	3.0	6.2		3.4	3.1	
% ambulatory health care facilities	5.2	4.3		4.5			2.9	10.5	6.3		2.2	5.1	
% hospital units	0.0	0.0		0.0			0.2	0.1	0.1		0.1	0.2	
% hospitals	11.3	6.3		2.5			5.6	5.8	7.2		4.5	3.7	
% laboratories	3.9	3.6		1.3			1.1	1.8	2.1		1.5	0.9	
% managed care organizations	0.1	0.1		0.1			0.0	0.0	0.1		0.1	0.2	
% nursing and custodial care facilities	4.5	2.7		0.8			0.1	3.5	3.9		0.4	1.2	
% residential treatment facilities	0.0	1.8		0.1			0.2	0.9	4.6		0.1	0.0	
% respite care facility	0.0	0.5		0.0			0.0	0.1	0.2		0.0	0.0	
% suppliers	23.9	10.2		13.0			8.1	16.3	19.2		4.6	9.6	
% transportation services	4.1	4.5		2.0			2.1	5.2	0.5		1.8	0.6	
% nonmedical	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	

2011 MAX OT Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	1,062	746		3,363			7,630	449	774		4,684	1,498	
% a sole proprietorship	58.0	47.9		33.7			22.6	51.2	32.3		40.6	50.5	
% not a sole proprietorship	35.9	47.9		60.6			70.3	40.5	63.4		53.5	41.9	
% not answered	6.1	4.3		5.6			7.1	8.2	4.3		5.8	7.6	
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	3,899	544		2,795			4,383	789	1,079		1,641	930	
% organization is a subpart	13.0	14.3		15.3			8.2	16.0	5.0		5.9	8.8	
% organization is not a subpart	65.7	72.1		77.0			74.9	66.0	80.7		73.7	73.4	
% not answered	21.3	13.6		7.7			16.9	18.0	14.3		20.4	17.7	

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

2011 MAX OT Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
OT Providers													
Number of provider IDs	15,708	11,219	17,918		24,736	12,136		13,377		134,079	93,105	7,488	12,257
% billing provider on OT claim	100.0	100.0	100.0		100.0	100.0		100.0		100.0	100.0	100.0	100.0
% servicing provider on OT claim	0.0	61.6	87.2		81.9	95.4		98.6		97.0	27.3	77.0	27.0
% NPI servicing provider on OT claim	0.0	0.0	0.0		0.0	0.0		0.0		0.7	0.0	0.0	0.0
% also a provider on IP claim	2.7	3.1	1.9		1.4	3.7		1.5		0.6	0.4	3.5	3.5
% also a provider on LT claim	2.2	0.4	2.5		0.0	0.0		0.1		0.1	0.5	2.3	0.0
% also a provider on RX claim	3.8	9.4	4.2		51.2	28.2		15.9		10.4	24.9	0.0	19.5
% provider IDs with NPI	5.8	89.7	90.9		88.6	67.6		91.2		17.8	21.3	85.0	42.8
% provider IDs linked to NPPES	5.8	89.7	61.3		88.6	67.5		53.6		17.8	18.9	84.3	42.1
% provider IDs with or without NPI but linked to state provider file	0.0	3.8	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
average number of OT claims	7152.2	4,497.3	1969.2		2,423.3	4318.4		4,085.7		979.8	820.5	4,026.8	5,322.8
average number of beneficiaries with OT claims	901.5	601.4	248.9		440.2	570.6		214.3		136.4	85.8	537.9	707.1
Provider IDs with NPI													
Number of provider IDs with NPI	909	10,065	16,288		21,923	8,201		12,194		23,825	19,839	6,367	5,242
% NPI source = MSIS	99.7	52.3	95.3		92.6	99.9		97.3		71.4	67.5	90.3	66.2
% NPI source = NPPES	0.3	6.3	4.7		7.4	0.1		2.7		28.6	32.5	9.7	33.8
% NPI source = state cross-reference file	0.0	41.4	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	909	10,065	10,977		21,923	8,192		7,166		23,802	17,584	6,313	5,158
% linked via NPI	99.7	93.7	93.0		92.6	99.9		95.5		71.4	63.4	90.2	65.6
% linked via Medicaid legacy provider ID	0.2	6.3	7.0		7.4	0.0		4.5		28.5	36.6	9.8	34.3
% linked via Medicare UPIN	0.1	0.0	0.0		0.0	0.1		0.0		0.1	0.0	0.0	0.0
% with name prefix	0.4	16.7	18.2		30.1	20.2		15.9		20.7	12.4	22.9	15.5
% with first name	0.6	24.6	37.2		68.4	34.3		26.2		43.8	39.2	36.3	24.2
% with middle name	0.4	21.1	32.2		54.8	29.2		19.0		34.2	33.8	30.7	20.1
% with last name	0.6	24.6	37.2		68.4	34.3		26.2		43.8	39.2	36.3	24.2
% with name suffix	0.0	1.0	0.5		2.8	3.2		0.8		1.0	0.5	3.8	1.0
% male	0.3	18.9	24.1		44.4	23.2		18.0		30.1	22.9	26.0	15.8
% female	0.2	5.7	13.1		24.0	11.1		8.2		13.7	16.3	10.3	8.5
% with credential	0.4	23.7	36.4		67.4	32.8		25.4		42.6	36.8	35.2	23.4
% with business name	99.3	75.1	62.5		31.3	65.5		73.5		56.0	60.8	63.5	75.5
% with address line 1	99.9	99.7	99.8		99.7	99.9		99.7		99.8	99.9	99.8	99.8
% with city	99.9	99.7	99.8		99.7	99.9		99.7		99.8	99.9	99.8	99.8
% with state	99.9	99.7	99.8		99.7	99.9		99.7		99.8	99.9	99.8	99.8
% state = OT state code	67.4	83.1	80.3		78.3	82.7		82.7		83.2	86.4	78.7	86.8
% with zip code	99.9	99.7	99.8		99.7	99.9		99.7		99.8	99.9	99.8	99.8
% with primary taxonomy	97.6	98.1	98.1		98.8	98.5		98.2		98.7	99.0	98.0	98.9
% with provider entity type = individual	0.6	24.6	37.2		68.4	34.3		26.2		43.8	39.2	36.3	24.2
% with provider entity type = organization	99.3	75.1	62.5		31.3	65.5		73.5		56.0	60.8	63.5	75.5

2011 MAX OT Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
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	431	0		0	0		0		0	0	0	0
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	887	9,877	10,773		21,670	8,073		7,040		23,501	17,413	6,189	5,100
% individual or group of individuals	3.8	56.3	59.2		77.1	53.5		60.4		65.5	42.3	59.6	45.4
% allopathic and osteopathic physicians	0.1	27.4	29.4		51.7	30.7		42.7		43.7	22.3	33.4	25.2
% behavioral health and social service providers	0.0	3.4	2.2		0.3	1.4		3.8		1.5	5.6	2.0	7.4
% chiropractic providers	0.0	4.6	7.6		2.2	0.5		0.4		3.1	2.2	1.6	0.4
% dental providers	0.0	10.3	6.9		5.9	5.5		0.2		4.2	1.9	6.3	2.8
% dietary and nutritional service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.1	0.0	0.0
% emergency medical service providers	0.0	0.1	0.2		0.0	0.0		0.0		0.0	0.1	0.0	0.2
% eye and vision service providers	0.0	4.0	3.2		2.5	1.5		1.3		1.9	1.6	4.2	3.0
% nursing service providers	0.0	0.0	0.1		0.1	0.1		0.1		0.1	0.3	0.7	0.3
% nursing service-related providers	0.0	0.1	0.0		0.0	3.2		0.0		0.0	0.0	0.8	0.6
% other service providers	0.0	2.7	1.3		1.6	4.1		5.6		2.4	0.7	3.7	2.1
% pharmacy service providers	3.6	0.1	0.2		0.1	0.0		0.1		0.1	0.2	0.3	0.3
% physician assistants and advanced practice nursing providers	0.0	0.5	5.2		10.8	2.1		0.6		5.3	5.5	3.8	0.5
% podiatric medicine and surgery service providers	0.0	1.4	1.1		0.8	0.6		3.4		1.9	0.3	0.9	1.5
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.9	1.1		0.6	1.3		1.5		0.9	0.9	1.0	0.4
% speech, language, and hearing service providers	0.1	0.6	0.6		0.3	2.3		0.4		0.3	0.5	0.7	0.4
% student health care	0.0	0.0	0.0		0.2	0.2		0.1		0.1	0.0	0.1	0.0
% technologists, technicians, and other technical service providers	0.0	0.1	0.0		0.1	0.1		0.1		0.0	0.0	0.1	0.1
% group of individuals with multi- or single specialty	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% nonindividuals	96.2	43.7	40.8		22.9	46.5		39.6		34.5	57.7	40.4	54.6
% agencies	1.1	6.7	8.8		6.1	21.3		3.4		3.4	5.4	4.3	9.1
% ambulatory health care facilities	0.2	5.2	5.4		2.3	7.3		9.4		4.9	3.5	9.2	13.4
% hospital units	0.1	0.3	0.2		0.0	0.0		0.1		0.1	0.2	0.1	0.0
% hospitals	37.1	7.6	3.9		2.0	6.2		5.5		11.3	33.1	7.2	3.4
% laboratories	0.0	1.7	1.2		1.0	1.3		1.8		1.1	1.0	2.2	2.2
% managed care organizations	0.0	0.1	0.1		0.0	1.6		0.1		1.2	0.0	0.1	0.1
% nursing and custodial care facilities	8.0	0.6	6.3		0.1	1.2		3.1		0.1	3.8	3.1	1.0
% residential treatment facilities	1.5	0.6	0.9		0.4	1.1		0.1		0.0	1.1	0.1	1.9
% respite care facility	0.0	0.1	0.1		0.0	0.8		0.0		0.0	0.0	0.4	0.2
% suppliers	48.1	17.5	10.5		9.3	5.1		13.4		11.2	8.6	12.4	19.6
% transportation services	0.0	3.4	3.5		1.6	0.5		2.7		1.3	1.0	1.2	3.7
% nonmedical	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0

2011 MAX OT Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	5	2,478	4,087		15,001	2,813		1,880		10,423	6,888	2,292	1,250
% a sole proprietorship	60.0	57.1	24.7		17.1	42.6		55.2		19.5	14.0	42.0	54.5
% not a sole proprietorship	40.0	34.1	66.5		78.8	50.7		35.4		70.4	83.9	54.0	37.2
% not answered	0.0	8.8	8.8		4.1	6.8		9.5		10.1	2.0	4.1	8.3
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	903	7,557	6,866		6,867	5,368		5,268		13,339	10,683	4,010	3,896
% organization is a subpart	10.7	11.6	10.4		12.3	6.2		9.9		8.5	12.3	12.9	16.8
% organization is not a subpart	75.5	72.2	68.7		76.1	67.1		76.2		79.4	78.0	70.6	76.5
% not answered	13.7	16.2	20.9		11.6	26.8		13.9		12.1	9.7	16.6	6.8

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

2011 MAX OT Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
OT Providers													
Number of provider IDs	5,722	5,914					97,515	26,686			11,359	30,419	25,405
% billing provider on OT claim	100.0	100.0					100.0	100.0			100.0	100.0	100.0
% servicing provider on OT claim	79.1	0.0					97.5	74.7			59.3	85.8	79.6
% NPI servicing provider on OT claim	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% also a provider on IP claim	2.6	0.8					0.9	1.4			3.2	0.5	1.3
% also a provider on LT claim	0.2	0.0					0.6	0.1			0.1	0.1	1.2
% also a provider on RX claim	13.4	0.4					63.4	20.0			2.4	0.2	6.7
% provider IDs with NPI	71.5	14.6					85.9	93.7			60.0	13.0	47.4
% provider IDs linked to NPPES	71.5	14.6					85.9	93.7			60.0	13.0	47.4
% provider IDs with or without NPI but linked to state provider file	0.0	0.0					0.0	0.0			0.0	0.0	0.0
average number of OT claims	1175.2	1771.6					2,919.4	5,354.4			4,057.8	1,495.7	3962.7
average number of beneficiaries with OT claims	159.9	247.6					384.6	537.2			507.7	114.8	332.7
Provider IDs with NPI													
Number of provider IDs with NPI	4,094	862					83,740	25,018			6,817	3,943	12,041
% NPI source = MSIS	100.0	8.2					92.4	79.1			87.0	81.1	99.6
% NPI source = NPPES	0.0	91.8					7.6	9.5			13.0	18.9	0.4
% NPI source = state cross-reference file	0.0	0.0					0.0	11.4			0.0	0.0	0.0
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	4,094	862					83,736	25,015			6,815	3,943	12,041
% linked via NPI	100.0	8.2					92.4	90.5			87.0	81.1	99.6
% linked via Medicaid legacy provider ID	0.0	91.5					7.5	9.5			13.0	15.8	0.4
% linked via Medicare UPIN	0.0	0.2					0.0	0.0			0.0	3.0	0.0
% with name prefix	26.9	19.1					43.3	13.8			20.5	24.7	23.4
% with first name	50.5	38.6					83.7	20.6			35.3	45.4	39.6
% with middle name	42.6	29.2					50.8	17.6			30.1	39.3	32.2
% with last name	50.5	38.6					83.7	20.6			35.3	45.4	39.6
% with name suffix	0.8	0.7					1.2	1.6			1.4	0.9	2.0
% male	27.3	28.5					49.7	11.2			20.9	28.6	31.0
% female	23.3	10.1					34.0	9.4			14.3	16.8	8.6
% with credential	49.1	38.2					79.7	19.5			33.9	44.0	38.7
% with business name	49.3	61.4					16.0	79.1			64.3	54.3	60.2
% with address line 1	99.8	100.0					99.7	99.7			99.6	99.7	99.8
% with city	99.8	100.0					99.7	99.7			99.6	99.7	99.8
% with state	99.8	100.0					99.7	99.7			99.6	99.7	99.8
% state = OT state code	82.8	90.6					89.7	92.5			84.3	86.1	90.8
% with zip code	99.8	100.0					99.7	99.7			99.6	99.7	99.8
% with primary taxonomy	97.1	100.0					98.0	97.8			98.1	96.7	97.8
% with provider entity type = individual	50.5	38.6					83.7	20.6			35.3	45.4	39.6
% with provider entity type = organization	49.3	61.4					16.0	79.1			64.3	54.3	60.2

2011 MAX OT Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
Provider IDs with or without NPI but linked to state provider file													
Number of provider IDs with or without NPI linked to state provider file	0		0				0	1			0	0	0
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	3,975	862					82,054	24,462			6,686	3,813	11,777
% individual or group of individuals	52.6	62.1					87.5	49.8			50.2	58.5	47.2
% allopathic and osteopathic physicians	14.2	42.7					55.8	21.7			23.5	30.5	25.3
% behavioral health and social service providers	15.4	2.6					5.1	9.2			6.7	4.8	1.3
% chiropractic providers	1.9	0.2					0.1	2.0			0.1	1.6	3.6
% dental providers	8.6	2.0					6.0	6.1			6.2	2.5	5.8
% dietary and nutritional service providers	0.1	0.0					0.0	0.0			0.4	0.1	0.1
% emergency medical service providers	0.1	0.0					0.0	0.0			0.2	0.2	0.2
% eye and vision service providers	2.1	4.5					1.9	2.6			4.1	3.1	2.8
% nursing service providers	0.1	0.1					3.0	0.1			0.3	4.2	0.2
% nursing service-related providers	0.0	0.1					0.0	0.7			0.4	0.0	0.0
% other service providers	1.0	3.7					3.5	2.7			2.1	5.3	1.9
% pharmacy service providers	0.1	0.0					0.3	0.2			0.3	0.0	0.2
% physician assistants and advanced practice nursing providers	4.1	1.5					6.8	0.7			2.6	2.3	0.6
% podiatric medicine and surgery service providers	0.4	1.4					1.9	0.7			0.5	1.8	3.2
% respiratory, developmental, rehabilitative, and restorative service providers	2.7	2.3					2.1	1.2			0.9	1.3	1.2
% speech, language, and hearing service providers	1.9	0.8					0.4	1.7			1.8	0.7	0.9
% student health care	0.1	0.0					0.6	0.0			0.0	0.0	0.0
% technologists, technicians, and other technical service providers	0.1	0.1					0.0	0.0			0.1	0.1	0.0
% group of individuals with multi- or single specialty	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% nonindividuals	47.4	37.9					12.5	50.2			49.8	41.5	52.8
% agencies	12.1	5.7					2.2	13.9			11.1	5.7	9.3
% ambulatory health care facilities	5.4	11.3					1.2	6.3			6.4	11.1	9.5
% hospital units	0.1	0.0					0.1	0.1			0.2	0.2	0.3
% hospitals	7.9	4.8					1.1	3.5			6.2	3.4	6.6
% laboratories	1.7	0.6					0.1	0.6			2.1	2.2	1.5
% managed care organizations	0.1	0.5					0.1	0.2			0.1	0.2	0.0
% nursing and custodial care facilities	3.9	0.7					0.4	5.3			0.7	1.0	2.2
% residential treatment facilities	0.6	0.6					0.2	3.2			1.0	2.6	0.3
% respite care facility	0.0	0.0					0.0	0.1			0.0	0.0	0.0
% suppliers	12.7	11.7					6.2	15.9			18.5	11.7	15.9
% transportation services	3.0	2.2					0.9	1.2			3.4	3.3	7.2
% nonmedical	0.0	0.0					0.0	0.1			0.0	0.0	0.0

2011 MAX OT Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	2,068	333					70,075	5,161			2,404	1,790	4,767
% a sole proprietorship	44.0	41.4					30.5	54.0			47.7	49.2	45.6
% not a sole proprietorship	51.6	58.6					61.5	39.7			46.5	42.5	42.8
% not answered	4.4	0.0					8.0	6.3			5.7	8.3	11.6
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	2,019	529					13,400	19,790			4,384	2,141	7,248
% organization is a subpart	11.1	13.4					9.8	11.0			14.7	12.0	11.6
% organization is not a subpart	69.1	86.6					69.3	72.1			68.4	71.9	72.4
% not answered	19.8	0.0					20.9	16.9			16.9	16.2	16.0

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
OT Providers												
Number of provider IDs		26,664	9,425	28,963	97,246		4,097	33,595	8,873	5,847	33,887	3,474
% billing provider on OT claim		100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0
% servicing provider on OT claim		58.0	97.1	88.0	80.0		64.1	0.0	74.8	65.6	93.7	60.8
% NPI servicing provider on OT claim		19.8	0.0	0.0	51.9		0.0	91.0	0.0	0.0	51.9	0.0
% also a provider on IP claim		2.3	0.0	2.7	0.8		2.0	2.6	2.6	3.1	1.3	2.8
% also a provider on LT claim		0.0	0.0	1.2	1.0		0.3	0.2	0.3	0.0	1.2	0.7
% also a provider on RX claim		10.6	0.1	0.3	2.0		28.1	50.8	9.3	0.0	54.9	12.5
% provider IDs with NPI		43.3	64.6	81.3	53.9		74.7	91.5	74.5	71.3	54.2	39.3
% provider IDs linked to NPPES		26.3	64.6	81.3	53.5		74.7	86.7	74.4	71.3	54.2	39.3
% provider IDs with or without NPI but linked to state provider file		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
average number of OT claims		1,544.0	373.0	2,291.6	2653.8		2097.0	1,088.1	5,838.9	2,791.0	1816.1	847.8
average number of beneficiaries with OT claims		241.7	82.8	441.8	386.1		259.8	211.2	590.5	325.8	324.8	108.4
Provider IDs with NPI												
Number of provider IDs with NPI		11,550	6,092	23,539	52,377		3,060	30,723	6,613	4,171	18,355	1,364
% NPI source = MSIS		61.1	79.8	100.0	99.9		84.9	99.6	100.0	81.2	96.1	79.1
% NPI source = NPPES		38.9	20.2	0.0	0.1		15.1	0.4	0.0	18.8	3.9	20.9
% NPI source = state cross-reference file		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Provider IDs Linked to NPPES												
Number of provider IDs linked to NPPES		7,016	6,088	23,539	52,015		3,060	29,129	6,605	4,171	18,355	1,364
% linked via NPI		35.9	79.7	100.0	99.9		84.9	99.6	100.0	81.2	96.1	79.1
% linked via Medicaid legacy provider ID		60.4	20.2	0.0	0.1		15.0	0.4	0.0	18.8	3.9	20.9
% linked via Medicare UPIN		3.7	0.0	0.0	0.0		0.1	0.0	0.0	0.0	0.0	0.0
% with name prefix		35.8	19.1	40.8	33.8		40.4	36.0	18.1	16.2	26.4	25.1
% with first name		71.2	62.0	85.5	72.4		71.9	74.1	29.8	25.7	64.1	43.4
% with middle name		61.2	52.1	69.7	54.1		54.7	58.1	26.0	22.8	52.1	37.4
% with last name		71.2	62.0	85.5	72.4		71.9	74.1	29.8	25.7	64.1	43.4
% with name suffix		7.0	0.8	5.0	2.7		1.4	3.5	0.6	2.3	0.8	1.6
% male		52.3	38.5	55.0	43.4		31.3	45.9	20.4	20.4	32.8	26.3
% female		18.9	23.5	30.5	28.9		40.6	28.2	9.4	5.4	31.2	17.1
% with credential		69.7	60.2	83.9	70.1		70.0	71.5	28.9	24.9	61.1	36.5
% with business name		28.7	37.9	14.2	27.3		28.0	25.6	70.1	74.0	35.7	56.3
% with address line 1		99.9	99.9	99.8	99.7		99.9	99.8	99.8	99.7	99.8	99.7
% with city		99.9	99.9	99.8	99.7		99.9	99.8	99.8	99.7	99.8	99.7
% with state		99.9	99.9	99.8	99.7		99.9	99.8	99.8	99.7	99.8	99.7
% state = OT state code		85.0	61.3	86.5	95.1		79.8	78.2	84.8	72.5	79.6	71.4
% with zip code		99.9	99.9	99.8	99.7		99.9	99.8	99.8	99.7	99.8	99.7
% with primary taxonomy		98.8	98.4	98.4	98.0		95.9	97.8	98.5	98.3	97.8	96.7
% with provider entity type = individual		71.2	62.0	85.5	72.4		71.9	74.1	29.8	25.7	64.1	43.4
% with provider entity type = organization		28.7	37.9	14.2	27.3		28.0	25.6	70.1	74.0	35.7	56.3

Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
Provider IDs with or without NPI but linked to state provider file												
Number of provider IDs with or without NPI linked to state provider file		0	0	0	0		0	0	0	0	0	0
Provider IDs with NPPES Primary Taxonomy												
Number of provider IDs with NPPES primary taxonomy		6,931	5,989	23,160	50,988		2,936	28,502	6,507	4,101	17,948	1,319
% individual or group of individuals		89.6	71.7	89.4	75.4		80.3	79.1	49.8	43.2	70.3	55.8
% allopathic and osteopathic physicians		68.3	41.1	54.0	47.1		32.4	55.2	18.3	21.7	24.9	17.3
% behavioral health and social service providers		0.5	4.2	3.6	7.3		24.9	7.6	2.5	2.2	12.9	4.1
% chiropractic providers		0.9	3.2	0.5	0.7		2.9	0.1	0.3	1.8	4.5	1.1
% dental providers		7.1	0.5	4.7	3.5		5.7	4.8	12.8	8.3	4.2	13.4
% dietary and nutritional service providers		0.1	0.1	0.0	0.2		0.3	0.0	0.0	0.0	0.0	0.2
% emergency medical service providers		0.1	0.1	0.1	0.0		0.0	0.0	0.0	0.0	0.2	0.2
% eye and vision service providers		4.6	2.3	2.9	2.3		1.9	2.3	4.3	2.7	2.3	5.3
% nursing service providers		0.0	0.1	0.2	0.2		1.0	0.1	0.5	0.0	0.3	0.6
% nursing service-related providers		0.0	0.1	0.0	0.1		0.1	0.0	0.0	0.5	0.0	0.1
% other service providers		3.4	1.0	3.4	2.3		1.7	3.0	3.0	2.6	0.8	6.4
% pharmacy service providers		0.0	0.1	0.0	0.1		0.0	0.1	0.1	0.4	0.1	0.1
% physician assistants and advanced practice nursing providers		2.8	14.5	15.4	5.6		4.7	3.2	1.9	0.3	11.0	2.0
% podiatric medicine and surgery service providers		1.0	0.5	0.8	0.8		0.6	1.1	1.4	1.1	0.6	0.8
% respiratory, developmental, rehabilitative, and restorative service providers		0.4	2.5	2.2	2.2		2.5	0.4	3.3	1.0	6.5	2.0
% speech, language, and hearing service providers		0.4	1.2	1.2	2.6		1.6	0.4	1.1	0.3	1.6	2.2
% student health care		0.0	0.2	0.4	0.2		0.0	0.5	0.0	0.0	0.2	0.0
% technologists, technicians, and other technical service providers		0.0	0.0	0.0	0.1		0.1	0.0	0.1	0.1	0.0	0.0
% group of individuals with multi- or single specialty		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% nonindividuals		10.4	28.3	10.6	24.6		19.7	20.9	50.2	56.8	29.7	44.2
% agencies		1.8	4.8	1.2	6.6		3.6	4.4	5.3	11.7	5.0	11.9
% ambulatory health care facilities		2.5	6.0	1.2	3.8		3.0	2.1	11.4	6.9	3.9	7.0
% hospital units		0.0	0.0	0.1	0.1		0.2	0.0	0.2	0.1	0.2	0.0
% hospitals		3.5	4.9	2.9	1.9		3.5	3.2	8.3	7.8	5.5	8.7
% laboratories		0.1	0.8	0.5	0.5		1.2	0.7	1.9	4.7	0.9	1.4
% managed care organizations		0.1	0.0	0.0	0.1		0.1	0.1	0.1	0.1	0.0	0.1
% nursing and custodial care facilities		0.5	2.3	1.2	2.2		1.5	0.2	0.2	0.3	2.2	2.3
% residential treatment facilities		0.1	0.4	0.1	0.1		0.3	0.8	0.5	0.9	0.1	0.3
% respite care facility		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.5
% suppliers		1.2	6.3	2.4	7.5		2.6	8.3	19.0	17.8	9.5	8.5
% transportation services		0.7	2.8	1.0	1.7		3.7	1.2	3.3	6.6	2.5	3.6
% nonmedical		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0

2011 MAX OT Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
Provider IDs with Entity Type = Individual												
Number of provider IDs with entity type = individual		4,994	3,774	20,128	37,648		2,200	21,593	1,967	1,073	11,762	592
% a sole proprietorship		19.2	10.9	19.0	30.7		46.5	17.5	57.2	57.7	13.6	60.3
% not a sole proprietorship		75.5	84.5	73.7	65.4		48.0	76.1	34.4	34.2	79.2	35.0
% not answered		5.3	4.6	7.2	3.8		5.6	6.4	8.3	8.1	7.2	4.7
Provider IDs with Entity Type = Organization												
Number of provider IDs with entity type = organization		2,015	2,310	3,354	14,199		856	7,471	4,627	3,085	6,548	768
% organization is a subpart		12.3	10.4	10.8	13.1		7.0	10.4	14.1	9.7	16.6	9.1
% organization is not a subpart		73.8	70.3	74.0	68.8		58.2	74.2	70.8	71.6	69.1	72.0
% not answered		13.9	19.3	15.2	18.1		34.8	15.4	15.1	18.6	14.3	18.9

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
RX Providers													
Number of provider IDs	2,865	184		1,728			2,677	287	1,447		8,360	529	
% billing provider on RX claim	50.2	100.0		50.2			59.3	100.0	19.4		51.2	50.9	
% prescribing provider on RX claim	0.0	0.0		0.0			29.9	0.0	0.9		30.2	0.4	
% NPI billing provider on RX claim	49.8	100.0		49.8			40.7	99.7	80.6		48.8	49.1	
% also a provider on IP claim	0.0	0.0		0.0			0.0	0.7	0.0		0.1	2.8	
% also a provider on LT claim	0.0	0.0		0.0			0.0	0.3	0.0		0.0	1.5	
% also a provider on OT claim	19.7	40.8		18.6			62.3	20.9	30.6		49.2	64.5	
% provider IDs with NPI	100.0	100.0		99.9			99.9	99.7	99.9		99.6	94.7	
% provider IDs linked to NPPES	100.0	100.0		99.9			99.9	99.7	99.9		99.6	94.7	
% provider IDs with or without NPI but linked to state provider file	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
average number of RX claims	6924.2	6,256.2		5,770.6			7,822.5	8,159.0	3241.9		4,170.2	9303.9	
average number of beneficiaries with RX claims	680.0	648.6		803.3			651.6	911.5	307.6		513.9	1141.4	
Provider IDs with NPI													
Number of provider IDs with NPI	2,865	184		1,726			2,675	286	1,445		8,328	501	
% NPI source = MSIS	100.0	100.0		100.0			99.9	100.0	100.0		100.0	100.0	
% NPI source = NPPES	0.0	0.0		0.0			0.1	0.0	0.0		0.0	0.0	
% NPI source = state cross-reference file	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	2,865	184		1,726			2,675	286	1,445		8,328	501	
% linked via NPI	100.0	100.0		100.0			99.9	100.0	100.0		100.0	100.0	
% linked via Medicaid legacy provider ID	0.0	0.0		0.0			0.1	0.0	0.0		0.0	0.0	
% linked via Medicare UPIN	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% with name prefix	0.2	0.5		0.3			1.4	0.0	0.0		8.3	0.8	
% with first name	0.3	0.5		0.6			2.1	0.0	0.1		16.9	1.6	
% with middle name	0.2	0.5		0.6			1.9	0.0	0.1		13.9	1.6	
% with last name	0.3	0.5		0.6			2.1	0.0	0.1		16.9	1.6	
% with name suffix	0.1	0.0		0.1			0.0	0.0	0.0		1.3	0.0	
% male	0.3	0.5		0.6			1.3	0.0	0.1		11.4	1.0	
% female	0.0	0.0		0.0			0.7	0.0	0.0		5.6	0.6	
% with credential	0.2	0.5		0.5			1.6	0.0	0.1		16.7	1.4	
% with business name	99.2	98.9		99.1			97.3	98.6	99.2		82.7	98.4	
% with address line 1	99.5	99.5		99.7			99.4	98.6	99.3		99.6	100.0	
% with city	99.5	99.5		99.7			99.4	98.6	99.3		99.6	100.0	
% with state	99.5	99.5		99.7			99.4	98.6	99.3		99.6	100.0	
% state = RX state code	91.6	64.7		87.3			83.6	65.4	17.5		70.6	93.4	
% with zip code	99.5	99.5		99.7			99.4	98.6	99.3		99.6	100.0	
% with primary taxonomy	97.2	95.7		98.7			96.5	97.2	98.2		98.8	97.8	
% with provider entity type = individual	0.3	0.5		0.6			2.1	0.0	0.1		16.9	1.6	
% with provider entity type = organization	99.2	98.9		99.1			97.3	98.6	99.2		82.7	98.4	

Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
Provider IDs with or without NPI but linked to state provider file													
Number of provider IDs with or without NPI linked to state provider file	0	0		0			0	0	0		0	0	
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	2,785	176		1,704			2,581	278	1,419		8,228	490	
% individual or group of individuals	6.8	2.3		7.8			4.5	2.2	0.5		19.3	3.3	
% allopathic and osteopathic physicians	0.1	0.6		0.0			0.4	0.0	0.1		14.0	2.0	
% behavioral health and social service providers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% chiropractic providers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% dental providers	0.0	0.0		0.0			0.0	0.0	0.0		0.9	0.0	
% dietary and nutritional service providers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% emergency medical service providers	0.0	0.0		0.1			0.0	0.0	0.0		0.0	0.0	
% eye and vision service providers	0.0	0.0		0.0			0.3	0.0	0.0		0.1	0.0	
% nursing service providers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% nursing service-related providers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% other service providers	0.0	0.0		0.0			0.3	0.0	0.0		0.8	0.0	
% pharmacy service providers	6.8	1.7		7.7			0.4	2.2	0.4		2.3	1.2	
% physician assistants and advanced practice nursing providers	0.0	0.0		0.0			0.0	0.0	0.0		1.0	0.0	
% podiatric medicine and surgery service providers	0.0	0.0		0.0			0.6	0.0	0.0		0.0	0.0	
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0		0.0			0.1	0.0	0.0		0.0	0.0	
% speech, language, and hearing service providers	0.0	0.0		0.0			2.3	0.0	0.0		0.0	0.0	
% student health care	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% technologists, technicians, and other technical service providers	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% group of individuals with multi- or single specialty	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% nonindividuals	93.2	97.7		92.2			95.5	97.8	99.5		80.7	96.7	
% agencies	0.2	0.0		0.1			0.1	0.4	0.1		0.1	0.4	
% ambulatory health care facilities	0.4	1.1		0.0			0.2	0.0	0.1		0.1	3.3	
% hospital units	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% hospitals	0.0	0.6		0.0			0.0	0.4	0.1		0.3	2.4	
% laboratories	0.0	0.0		0.0			0.0	0.0	0.0		0.0	1.0	
% managed care organizations	0.1	0.0		0.1			0.0	0.0	0.0		0.0	1.0	
% nursing and custodial care facilities	0.0	0.6		0.0			0.1	0.0	0.0		0.0	0.0	
% residential treatment facilities	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% respite care facility	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% suppliers	92.5	95.5		92.0			95.2	97.1	99.2		80.2	88.6	
% transportation services	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% nonmedical	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	

2011 MAX RX Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	8	1		10			56	0	1		1,410	8	
% a sole proprietorship	75.0	100.0		40.0			53.6	0.0	0.0		21.9	37.5	
% not a sole proprietorship	0.0	0.0		60.0			42.9	0.0	100.0		71.6	62.5	
% not answered	25.0	0.0		0.0			3.6	0.0	0.0		6.5	0.0	
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	2,843	182		1,710			2,604	282	1,434		6,884	493	
% organization is a subpart	20.6	28.6		33.9			17.7	34.0	13.5		30.2	15.4	
% organization is not a subpart	68.0	61.0		54.9			75.3	61.0	83.6		64.1	76.3	
% not answered	11.5	10.4		11.3			7.0	5.0	2.9		5.7	8.3	

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

2011 MAX RX Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
RX Providers													
Number of provider IDs	3,748	2,731	13,712		3,178	1,658		2,647		27,396	2,974	1,762	5,609
% billing provider on RX claim	25.9	49.7	7.5		55.9	73.0		50.9		78.1	50.0	50.5	51.6
% prescribing provider on RX claim	0.6	0.6	0.0		1.4	0.0		1.0		48.8	4.5	2.0	3.2
% NPI billing provider on RX claim	74.1	50.3	92.5		44.1	27.0		49.1		71.9	50.0	49.5	48.4
% also a provider on IP claim	0.9	0.2	0.4		0.1	0.0		0.4		0.8	0.5	0.1	7.1
% also a provider on LT claim	0.1	0.0	0.0		0.1	0.1		0.3		0.3	0.2	0.0	0.0
% also a provider on OT claim	71.1	81.4	88.1		52.8	0.7		20.8		71.4	78.5	14.9	71.7
% provider IDs with NPI	96.7	99.9	97.2		99.3	27.2		99.6		84.7	99.8	99.1	94.7
% provider IDs linked to NPPES	96.7	99.9	97.2		99.3	26.3		99.6		82.5	99.8	99.1	94.7
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
average number of RX claims	13878.3	10,874.9	931.1		9,055.9	16234.8		5,128.5		1,363.1	8615.9	6,848.3	5,490.4
average number of beneficiaries with RX claims	1516.4	997.6	103.6		785.0	1501.7		497.2		194.4	736.6	893.5	531.7
Provider IDs with NPI													
Number of provider IDs with NPI	3,623	2,729	13,326		3,155	451		2,636		23,213	2,969	1,746	5,314
% NPI source = MSIS	100.0	99.0	95.5		100.0	100.0		100.0		93.2	99.7	100.0	97.3
% NPI source = NPPES	0.0	0.2	4.5		0.0	0.0		0.0		6.8	0.3	0.0	2.7
% NPI source = state cross-reference file	0.0	0.8	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	3,623	2,729	13,325		3,155	436		2,636		22,613	2,969	1,746	5,312
% linked via NPI	100.0	99.8	95.5		100.0	100.0		100.0		93.0	99.7	100.0	97.3
% linked via Medicaid legacy provider ID	0.0	0.2	4.5		0.0	0.0		0.0		7.0	0.3	0.0	2.7
% linked via Medicare UPIN	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% with name prefix	0.2	0.1	32.5		1.2	0.5		0.0		22.7	0.0	0.8	2.6
% with first name	0.5	0.1	84.9		2.4	0.7		0.0		48.9	0.0	0.9	4.3
% with middle name	0.4	0.1	70.8		1.8	0.5		0.0		36.4	0.0	0.8	3.9
% with last name	0.5	0.1	84.9		2.4	0.7		0.0		48.9	0.0	0.9	4.3
% with name suffix	0.0	0.0	1.4		0.1	0.0		0.0		1.0	0.0	0.2	0.2
% male	0.4	0.1	55.5		1.8	0.7		0.0		30.8	0.0	0.9	3.2
% female	0.2	0.0	29.5		0.6	0.0		0.0		18.1	0.0	0.0	1.1
% with credential	0.5	0.1	83.9		2.4	0.7		0.0		47.9	0.0	0.8	4.3
% with business name	99.2	99.6	14.7		97.1	99.1		99.8		50.9	99.3	98.9	95.5
% with address line 1	99.8	99.7	99.6		99.5	99.8		99.8		99.8	99.3	99.8	99.8
% with city	99.8	99.7	99.6		99.5	99.8		99.8		99.8	99.3	99.8	99.8
% with state	99.8	99.7	99.6		99.5	99.8		99.8		99.8	99.3	99.8	99.8
% state = RX state code	82.7	87.5	66.0		84.1	96.1		87.5		73.5	73.2	91.0	88.9
% with zip code	99.8	99.7	99.6		99.5	99.8		99.8		99.8	99.3	99.8	99.8
% with primary taxonomy	98.3	99.0	98.7		98.1	97.5		97.3		99.0	98.3	98.5	98.8
% with provider entity type = individual	0.5	0.1	84.9		2.4	0.7		0.0		48.9	0.0	0.9	4.3
% with provider entity type = organization	99.2	99.6	14.7		97.1	99.1		99.8		50.9	99.3	98.9	95.5

2011 MAX RX Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
Provider IDs with or without NPI but linked to state provider file													
Number of provider IDs with or without NPI linked to state provider file	0	0	0		0	0		0		0	0	0	0
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	3,560	2,703	13,146		3,095	425		2,564		22,379	2,920	1,720	5,248
% individual or group of individuals	3.5	1.3	87.2		4.5	5.2		1.8		62.4	2.1	8.0	25.4
% allopathic and osteopathic physicians	0.1	0.3	63.5		2.1	0.2		0.0		50.6	0.0	0.0	21.2
% behavioral health and social service providers	0.0	0.0	0.1		0.1	0.0		0.0		0.1	0.0	0.0	0.0
% chiropractic providers	0.0	0.0	0.0		0.1	0.0		0.0		0.0	0.0	0.0	0.0
% dental providers	0.0	0.1	8.1		0.2	0.0		0.0		1.6	0.0	0.0	0.0
% dietary and nutritional service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% emergency medical service providers	0.0	0.0	0.1		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% eye and vision service providers	0.0	0.0	3.1		0.0	0.0		0.0		0.2	0.0	0.0	0.0
% nursing service providers	0.0	0.0	0.1		0.0	0.0		0.0		0.1	0.0	0.0	0.1
% nursing service-related providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% other service providers	0.0	0.0	0.9		0.1	0.0		0.0		2.0	0.0	0.0	1.6
% pharmacy service providers	3.3	0.9	0.5		1.6	4.9		1.8		0.5	2.1	8.0	1.6
% physician assistants and advanced practice nursing providers	0.0	0.0	9.4		0.3	0.0		0.0		5.8	0.0	0.0	0.4
% podiatric medicine and surgery service providers	0.0	0.0	1.3		0.0	0.0		0.0		0.6	0.0	0.0	0.4
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.1	0.0	0.0	0.0
% speech, language, and hearing service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% student health care	0.0	0.0	0.3		0.1	0.0		0.0		0.8	0.0	0.0	0.0
% technologists, technicians, and other technical service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% group of individuals with multi- or single specialty	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% nonindividuals	96.5	98.7	12.8		95.5	94.8		98.2		37.6	97.9	92.0	74.6
% agencies	0.6	0.3	0.1		0.3	0.5		0.1		0.7	0.1	0.1	2.2
% ambulatory health care facilities	0.1	0.3	0.7		0.3	0.0		0.1		2.9	0.3	0.0	15.6
% hospital units	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% hospitals	0.2	0.5	0.4		0.5	0.0		0.2		0.6	0.5	0.5	3.7
% laboratories	0.0	0.0	0.0		0.1	0.0		0.0		0.0	0.0	0.0	0.0
% managed care organizations	0.1	0.1	0.0		0.0	0.0		0.0		0.1	0.0	0.0	0.2
% nursing and custodial care facilities	0.0	0.0	0.0		0.1	0.0		0.0		0.0	0.0	0.0	0.0
% residential treatment facilities	0.0	0.0	0.0		0.1	0.0		0.0		0.0	0.0	0.0	0.0
% respite care facility	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% suppliers	95.5	97.5	11.5		94.2	94.4		97.9		33.3	96.9	91.3	52.8
% transportation services	0.0	0.0	0.0		0.1	0.0		0.0		0.0	0.0	0.1	0.0
% nonmedical	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0

2011 MAX RX Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	19	2	11,319		75	3		0		11,048	0	16	231
% a sole proprietorship	78.9	100.0	10.3		13.3	66.7		0.0		15.0	0.0	75.0	49.4
% not a sole proprietorship	21.1	0.0	80.7		86.7	33.3		0.0		77.0	0.0	12.5	42.9
% not answered	0.0	0.0	9.0		0.0	0.0		0.0		8.1	0.0	12.5	7.8
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	3,595	2,719	1,958		3,064	432		2,630		11,518	2,949	1,726	5,071
% organization is a subpart	31.9	28.9	21.9		18.1	39.6		13.1		28.7	28.8	33.5	29.4
% organization is not a subpart	60.5	67.4	69.7		76.8	52.8		80.2		64.2	66.5	51.9	64.1
% not answered	7.6	3.8	8.5		5.1	7.6		6.7		7.1	4.6	14.6	6.5

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

2011 MAX RX Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
RX Providers													
Number of provider IDs	714	1,053					14,456	4,438			2,168	1,501	7,383
% billing provider on RX claim	50.0	49.9					49.3	50.2			50.0	50.6	49.8
% prescribing provider on RX claim	0.0	6.1					16.6	1.0			0.0	13.7	2.0
% NPI billing provider on RX claim	50.0	50.1					50.7	49.8			50.0	49.4	50.2
% also a provider on IP claim	0.7	0.1					0.4	0.1			0.0	1.1	0.0
% also a provider on LT claim	0.3	0.1					0.3	0.0			0.0	0.9	0.0
% also a provider on OT claim	29.4	30.5					94.7	85.2			34.9	18.8	41.6
% provider IDs with NPI	100.0	99.8					99.5	100.0			99.9	99.1	99.9
% provider IDs linked to NPPES	100.0	99.8					99.5	100.0			99.9	99.1	99.9
% provider IDs with or without NPI but linked to state provider file	0.0	0.0					0.0	0.0			0.0	0.0	0.0
average number of RX claims	3269.1	3776.7					8,923.4	7,273.7			6,404.2	6,515.4	2653.9
average number of beneficiaries with RX claims	321.8	264.8					806.9	838.7			871.1	581.1	228.1
Provider IDs with NPI													
Number of provider IDs with NPI	714	1,051					14,390	4,437			2,165	1,488	7,377
% NPI source = MSIS	100.0	99.8					99.6	100.0			99.9	99.7	100.0
% NPI source = NPPES	0.0	0.2					0.4	0.0			0.1	0.3	0.0
% NPI source = state cross-reference file	0.0	0.0					0.0	0.0			0.0	0.0	0.0
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	714	1,051					14,390	4,437			2,165	1,488	7,377
% linked via NPI	100.0	99.8					99.6	100.0			99.9	99.7	100.0
% linked via Medicaid legacy provider ID	0.0	0.2					0.4	0.0			0.1	0.1	0.0
% linked via Medicare UPIN	0.0	0.0					0.0	0.0			0.0	0.1	0.0
% with name prefix	0.3	0.4					11.9	0.0			0.1	0.2	1.3
% with first name	0.3	0.6					33.3	0.1			0.1	0.5	3.0
% with middle name	0.3	0.4					24.5	0.1			0.1	0.5	2.4
% with last name	0.3	0.6					33.3	0.1			0.1	0.5	3.0
% with name suffix	0.0	0.0					0.6	0.0			0.0	0.0	0.1
% male	0.3	0.6					18.6	0.0			0.1	0.5	2.3
% female	0.0	0.0					14.7	0.0			0.0	0.0	0.6
% with credential	0.3	0.6					32.5	0.1			0.1	0.3	3.0
% with business name	98.9	99.1					66.3	99.8			99.4	98.7	96.9
% with address line 1	99.2	99.7					99.6	99.9			99.4	99.2	99.8
% with city	99.2	99.7					99.6	99.9			99.4	99.2	99.8
% with state	99.2	99.7					99.6	99.9			99.4	99.2	99.8
% state = RX state code	76.8	83.6					96.6	92.6			81.2	89.9	95.0
% with zip code	99.2	99.7					99.6	99.9			99.4	99.2	99.8
% with primary taxonomy	97.5	99.0					98.0	97.1			96.2	96.6	98.3
% with provider entity type = individual	0.3	0.6					33.3	0.1			0.1	0.5	3.0
% with provider entity type = organization	98.9	99.1					66.3	99.8			99.4	98.7	96.9

2011 MAX RX Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
Provider IDs with or without NPI but linked to state provider file													
Number of provider IDs with or without NPI linked to state provider file	0		0				0	0			0	0	0
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	696	1,040					14,100	4,309			2,083	1,438	7,254
% individual or group of individuals	1.7	1.5					36.8	2.5			4.0	2.3	16.8
% allopathic and osteopathic physicians	0.0	0.6					21.5	0.0			0.1	0.1	13.1
% behavioral health and social service providers	0.0	0.0					0.1	0.0			0.0	0.0	0.0
% chiropractic providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% dental providers	0.0	0.0					1.7	0.0			0.0	0.0	0.0
% dietary and nutritional service providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% emergency medical service providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% eye and vision service providers	0.0	0.0					0.2	0.0			0.0	0.0	0.0
% nursing service providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% nursing service-related providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% other service providers	0.0	0.0					0.9	0.0			0.0	0.0	0.7
% pharmacy service providers	1.7	1.0					3.3	2.5			3.9	2.2	2.7
% physician assistants and advanced practice nursing providers	0.0	0.0					8.6	0.0			0.0	0.0	0.3
% podiatric medicine and surgery service providers	0.0	0.0					0.4	0.0			0.0	0.0	0.0
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% speech, language, and hearing service providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% student health care	0.0	0.0					0.1	0.0			0.0	0.0	0.0
% technologists, technicians, and other technical service providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% group of individuals with multi- or single specialty	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% nonindividuals	98.3	98.5					63.2	97.5			96.0	97.7	83.2
% agencies	0.9	0.0					0.1	0.2			0.5	0.1	0.4
% ambulatory health care facilities	0.9	0.2					0.1	0.2			1.2	0.3	2.3
% hospital units	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% hospitals	1.4	0.5					0.3	0.1			0.2	0.0	0.2
% laboratories	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% managed care organizations	0.0	0.0					0.0	0.0			0.0	0.1	0.0
% nursing and custodial care facilities	0.3	0.4					0.0	0.0			0.0	0.0	0.0
% residential treatment facilities	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% respite care facility	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% suppliers	94.8	97.4					62.5	96.8			94.0	97.1	80.2
% transportation services	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% nonmedical	0.0	0.0					0.0	0.0			0.0	0.0	0.0

2011 MAX RX Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	2	6					4,795	4			2	7	218
% a sole proprietorship	0.0	66.7					15.9	100.0			100.0	57.1	33.9
% not a sole proprietorship	100.0	33.3					79.7	0.0			0.0	14.3	57.8
% not answered	0.0	0.0					4.4	0.0			0.0	28.6	8.3
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	706	1,042					9,539	4,429			2,151	1,469	7,145
% organization is a subpart	14.2	33.4					16.3	20.1			30.2	16.9	15.6
% organization is not a subpart	76.2	62.2					74.7	72.4			61.1	75.9	77.2
% not answered	9.6	4.4					9.0	7.4			8.7	7.2	7.2

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
RX Providers												
Number of provider IDs		28,149	649	16,224	9,086		489	1,815	2,607	1,512	1,390	5,449
% billing provider on RX claim		7.5	53.3	50.5	50.2		50.3	100.0	52.2	47.4	100.0	3.7
% prescribing provider on RX claim		83.0	0.0	0.0	0.0		1.0	3.4	13.2	0.0	5.6	0.1
% NPI billing provider on RX claim		92.5	46.7	49.5	49.8		49.7	100.0	47.8	52.6	100.0	96.3
% also a provider on IP claim		12.9	0.2	0.1	0.0		0.0	0.0	0.7	0.0	0.2	0.2
% also a provider on LT claim		0.0	0.0	0.0	0.0		0.0	0.0	0.2	0.0	0.0	0.0
% also a provider on OT claim		52.0	24.2	1.1	21.5		4.7	90.1	61.4	36.8	82.9	64.5
% provider IDs with NPI		94.6	96.0	99.9	100.0		100.0	100.0	97.7	99.9	100.0	97.9
% provider IDs linked to NPPES		94.3	96.0	99.9	100.0		100.0	100.0	97.7	99.9	100.0	97.8
% provider IDs with or without NPI but linked to state provider file		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
average number of RX claims		354.4	1887.9	1,659.6	8709.3		8974.8	5,686.8	6,806.1	8,547.8	10384.7	224.8
average number of beneficiaries with RX claims		68.9	261.7	209.0	1132.1		752.5	557.2	557.1	643.7	1011.9	38.8
Provider IDs with NPI												
Number of provider IDs with NPI		26,643	623	16,203	9,086		489	1,815	2,546	1,511	1,390	5,335
% NPI source = MSIS		99.9	98.9	100.0	100.0		99.6	100.0	100.0	100.0	100.0	98.5
% NPI source = NPPES		0.1	1.1	0.0	0.0		0.4	0.0	0.0	0.0	0.0	1.5
% NPI source = state cross-reference file		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Provider IDs Linked to NPPES												
Number of provider IDs linked to NPPES		26,531	623	16,203	9,086		489	1,815	2,546	1,511	1,390	5,327
% linked via NPI		99.9	98.9	100.0	100.0		99.6	100.0	100.0	100.0	100.0	98.5
% linked via Medicaid legacy provider ID		0.1	1.1	0.0	0.0		0.4	0.0	0.0	0.0	0.0	1.4
% linked via Medicare UPIN		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% with name prefix		48.1	0.2	0.0	0.3		0.4	0.1	0.0	0.0	0.0	41.4
% with first name		97.7	0.2	0.0	0.6		0.4	0.2	0.0	0.0	0.0	96.1
% with middle name		80.5	0.0	0.0	0.4		0.4	0.2	0.0	0.0	0.0	75.1
% with last name		97.7	0.2	0.0	0.6		0.4	0.2	0.0	0.0	0.0	96.1
% with name suffix		6.6	0.0	0.0	0.0		0.0	0.1	0.0	0.0	0.0	1.8
% male		60.1	0.0	0.0	0.5		0.4	0.2	0.0	0.0	0.0	58.8
% female		37.5	0.2	0.0	0.1		0.0	0.1	0.0	0.0	0.0	37.3
% with credential		94.8	0.2	0.0	0.4		0.4	0.1	0.0	0.0	0.0	93.2
% with business name		1.8	99.2	99.9	99.1		99.2	99.4	99.5	99.7	99.4	3.5
% with address line 1		99.5	99.4	100.0	99.6		99.6	99.6	99.5	99.7	99.4	99.6
% with city		99.5	99.4	100.0	99.6		99.6	99.6	99.5	99.7	99.4	99.6
% with state		99.5	99.4	100.0	99.6		99.6	99.6	99.5	99.7	99.4	99.6
% state = RX state code		53.5	67.3	20.0	98.5		59.9	86.1	90.1	68.8	86.0	33.0
% with zip code		99.5	99.4	100.0	99.6		99.6	99.6	99.5	99.7	99.4	99.6
% with primary taxonomy		98.7	98.1	99.6	98.5		97.1	96.5	98.4	97.3	98.1	98.5
% with provider entity type = individual		97.7	0.2	0.0	0.6		0.4	0.2	0.0	0.0	0.0	96.1
% with provider entity type = organization		1.8	99.2	99.9	99.1		99.2	99.4	99.5	99.7	99.4	3.5

Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
Provider IDs with or without NPI but linked to state provider file												
Number of provider IDs with or without NPI linked to state provider file		0	0	0	0		0	0	0	0	0	0
Provider IDs with NPPES Primary Taxonomy												
Number of provider IDs with NPPES primary taxonomy		26,187	611	16,135	8,947		475	1,751	2,504	1,470	1,363	5,246
% individual or group of individuals		99.3	2.8	1.0	2.7		3.6	2.9	1.8	3.5	2.1	97.4
% allopathic and osteopathic physicians		67.6	0.0	0.2	0.0		0.4	0.0	0.0	0.0	0.2	61.0
% behavioral health and social service providers		1.0	0.0	0.0	0.0		0.4	0.0	0.0	0.0	0.1	0.4
% chiropractic providers		0.3	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.1
% dental providers		7.5	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	6.9
% dietary and nutritional service providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% emergency medical service providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.1
% eye and vision service providers		1.7	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	2.2
% nursing service providers		0.3	0.5	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.3
% nursing service-related providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% other service providers		2.8	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.1	1.8
% pharmacy service providers		1.4	2.0	0.8	2.6		2.7	2.9	1.8	3.5	1.7	1.2
% physician assistants and advanced practice nursing providers		14.2	0.3	0.0	0.0		0.0	0.0	0.0	0.0	0.0	19.9
% podiatric medicine and surgery service providers		0.6	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.4
% respiratory, developmental, rehabilitative, and restorative service providers		0.5	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.3
% speech, language, and hearing service providers		0.2	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% student health care		1.3	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	2.9
% technologists, technicians, and other technical service providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% group of individuals with multi- or single specialty		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% nonindividuals		0.7	97.2	99.0	97.3		96.4	97.1	98.2	96.5	97.9	2.6
% agencies		0.0	1.0	0.0	0.2		0.0	0.2	0.2	0.3	1.3	0.0
% ambulatory health care facilities		0.4	0.5	0.1	0.2		0.4	0.2	0.7	0.2	3.9	0.4
% hospital units		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% hospitals		0.1	1.3	0.1	0.1		0.0	0.3	0.2	0.0	0.4	0.4
% laboratories		0.0	0.0	0.0	0.1		0.0	0.0	0.0	0.0	0.0	0.0
% managed care organizations		0.0	0.0	0.0	0.1		0.0	0.0	0.0	0.0	0.0	0.0
% nursing and custodial care facilities		0.0	0.0	0.0	0.0		0.0	0.1	0.0	0.0	0.0	0.0
% residential treatment facilities		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% respite care facility		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% suppliers		0.1	94.4	98.8	96.7		96.0	96.3	97.0	96.1	92.3	1.8
% transportation services		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% nonmedical		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0

2011 MAX RX Billing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
Provider IDs with Entity Type = Individual												
Number of provider IDs with entity type = individual		25,917	1	8	50		2	4	0	0	0	5,118
% a sole proprietorship		17.2	0.0	50.0	88.0		0.0	100.0	0.0	0.0	0.0	18.4
% not a sole proprietorship		78.0	100.0	25.0	8.0		100.0	0.0	0.0	0.0	0.0	76.9
% not answered		4.8	0.0	25.0	4.0		0.0	0.0	0.0	0.0	0.0	4.8
Provider IDs with Entity Type = Organization												
Number of provider IDs with entity type = organization		484	618	16,189	9,004		485	1,804	2,534	1,506	1,381	186
% organization is a subpart		7.6	18.1	63.1	30.2		15.1	21.2	22.3	14.9	32.2	10.2
% organization is not a subpart		69.8	71.8	35.6	64.7		79.2	71.2	72.1	77.1	62.3	75.8
% not answered		22.5	10.0	1.4	5.1		5.8	7.6	5.5	8.0	5.6	14.0

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

2011 MAX RX-Prescribing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
RX Providers													
Number of provider IDs	14,235	3,409		9,044			30,573	5,838	3,331		44,719	1,573	
% billing provider on RX claim	0.0	0.0		0.0			0.0	0.0	0.4		0.0	0.1	
% prescribing provider on RX claim	100.0	100.0		100.0			100.0	100.0	100.0		100.0	100.0	
% NPI billing provider on RX claim	0.0	0.0		0.0			2.6	0.0	0.0		5.7	0.0	
% also a provider on IP claim	0.0	0.0		0.0			0.0	0.0	0.5		0.2	0.1	
% also a provider on LT claim	0.0	0.0		0.0			0.0	0.0	0.2		0.0	0.0	
% also a provider on OT claim	0.0	89.7		79.0			39.4	63.3	83.2		46.0	19.8	
% provider IDs with NPI	4.3	88.5		69.3			39.9	61.4	29.3		47.6	2.5	
% provider IDs linked to NPPES	4.3	88.5		69.3			39.9	61.4	29.3		47.6	2.5	
% provider IDs with or without NPI but linked to state provider file	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
average number of RX claims	696.8	325.9		534.2			627.6	401.1	763.1		644.4	103.7	
average number of beneficiaries with RX claims	105.7	58.9		116.4			79.2	79.1	85.5		97.7	28.8	
Provider IDs with NPI													
Number of provider IDs with NPI	611	3,016		6,269			12,208	3,585	976		21,308	39	
% NPI source = MSIS	0.0	95.5		79.0			99.7	99.6	64.0		99.9	79.5	
% NPI source = NPPES	100.0	4.5		21.0			0.3	0.4	36.0		0.1	20.5	
% NPI source = state cross-reference file	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	611	3,016		6,269			12,208	3,585	976		21,308	39	
% linked via NPI	0.0	95.5		79.0			99.7	99.6	64.0		99.9	79.5	
% linked via Medicaid legacy provider ID	6.2	4.4		21.0			0.2	0.4	35.9		0.0	15.4	
% linked via Medicare UPIN	93.8	0.1		0.0			0.1	0.0	0.1		0.0	5.1	
% with name prefix	39.9	38.6		50.2			42.0	46.4	32.7		45.3	23.1	
% with first name	75.8	98.8		98.3			92.3	99.4	63.7		90.1	35.9	
% with middle name	59.6	78.2		79.4			61.4	73.6	42.6		72.6	25.6	
% with last name	75.8	98.8		98.3			92.3	99.4	63.7		90.1	35.9	
% with name suffix	2.9	2.8		5.5			1.5	3.0	2.3		5.8	0.0	
% male	45.7	53.1		71.4			54.5	59.5	39.1		59.7	17.9	
% female	30.1	45.7		26.9			37.8	39.9	24.6		30.4	17.9	
% with credential	73.0	94.2		96.9			89.9	97.1	60.7		88.2	33.3	
% with business name	24.2	1.0		1.4			7.5	0.5	36.0		9.6	64.1	
% with address line 1	100.0	99.8		99.7			99.8	99.9	99.7		99.7	100.0	
% with city	100.0	99.8		99.7			99.8	99.9	99.7		99.7	100.0	
% with state	100.0	99.8		99.7			99.8	99.9	99.7		99.7	100.0	
% state = RX state code	6.4	74.0		78.1			86.9	73.9	62.9		87.5	94.9	
% with zip code	100.0	99.8		99.7			99.8	99.9	99.7		99.7	100.0	
% with primary taxonomy	97.4	98.5		99.0			98.0	98.9	98.1		98.6	100.0	
% with provider entity type = individual	75.8	98.8		98.3			92.3	99.4	63.7		90.1	35.9	
% with provider entity type = organization	24.2	1.0		1.4			7.5	0.5	36.0		9.6	64.1	

Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
Provider IDs with or without NPI but linked to state provider file													
Number of provider IDs with or without NPI linked to state provider file	0	0		0			0	0	0		0	0	
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	595	2,972		6,205			11,964	3,544	957		21,012	39	
% individual or group of individuals	91.8	99.5		99.5			93.5	99.8	88.3		90.8	35.9	
% allopathic and osteopathic physicians	36.0	59.2		72.6			64.0	70.4	68.7		67.0	25.6	
% behavioral health and social service providers	10.1	0.0		0.3			0.2	0.1	0.2		0.2	2.6	
% chiropractic providers	9.4	0.0		0.0			0.1	0.0	0.0		0.0	0.0	
% dental providers	4.5	8.4		6.7			7.5	6.1	7.2		5.7	0.0	
% dietary and nutritional service providers	0.3	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% emergency medical service providers	0.0	0.0		0.1			0.0	0.0	0.0		0.0	0.0	
% eye and vision service providers	5.7	3.1		5.1			2.1	2.0	0.5		2.1	0.0	
% nursing service providers	0.0	1.0		0.1			0.1	0.3	0.0		0.1	2.6	
% nursing service-related providers	0.2	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% other service providers	3.4	1.5		4.3			2.2	2.6	4.2		3.8	0.0	
% pharmacy service providers	0.3	0.0		0.0			0.0	0.0	0.0		0.3	0.0	
% physician assistants and advanced practice nursing providers	17.0	24.7		8.2			15.0	14.1	4.4		9.8	5.1	
% podiatric medicine and surgery service providers	0.8	0.5		1.0			1.5	1.7	3.0		1.2	0.0	
% respiratory, developmental, rehabilitative, and restorative service providers	2.5	0.0		0.0			0.1	0.2	0.0		0.1	0.0	
% speech, language, and hearing service providers	1.2	0.0		0.0			0.3	0.1	0.0		0.1	0.0	
% student health care	0.2	0.9		1.1			0.5	2.4	0.1		0.2	0.0	
% technologists, technicians, and other technical service providers	0.2	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% group of individuals with multi- or single specialty	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% nonindividuals	8.2	0.5		0.5			6.5	0.2	11.7		9.2	64.1	
% agencies	2.2	0.0		0.1			0.1	0.0	0.6		0.1	0.0	
% ambulatory health care facilities	3.4	0.3		0.3			0.4	0.1	3.7		0.3	0.0	
% hospital units	0.2	0.0		0.0			0.0	0.0	0.3		0.0	0.0	
% hospitals	0.3	0.0		0.2			0.0	0.1	5.2		0.5	30.8	
% laboratories	0.2	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% managed care organizations	0.7	0.0		0.0			0.0	0.0	0.2		0.0	33.3	
% nursing and custodial care facilities	0.2	0.0		0.0			0.0	0.0	0.3		0.0	0.0	
% residential treatment facilities	0.2	0.0		0.0			0.0	0.0	0.1		0.0	0.0	
% respite care facility	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% suppliers	0.7	0.2		0.0			6.0	0.0	1.1		8.2	0.0	
% transportation services	0.3	0.0		0.0			0.0	0.0	0.1		0.0	0.0	
% nonmedical	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	

2011 MAX RX-Prescribing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	463	2,981		6,163			11,263	3,562	622		19,198	14	
% a sole proprietorship	35.2	17.4		19.3			16.8	17.6	33.6		20.6	14.3	
% not a sole proprietorship	54.0	77.5		74.9			76.9	75.7	62.5		73.7	71.4	
% not answered	10.8	5.1		5.7			6.3	6.8	3.9		5.6	14.3	
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	148	29		87			921	18	351		2,049	25	
% organization is a subpart	5.4	6.9		6.9			14.3	5.6	3.7		10.9	0.0	
% organization is not a subpart	63.5	79.3		82.8			75.4	66.7	87.2		80.0	100.0	
% not answered	31.1	13.8		10.3			10.3	27.8	9.1		9.1	0.0	

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
RX Providers													
Number of provider IDs	75,405	35,209	13,582		18,020	16,750		16,443		65,810	24,570	19,121	41,043
% billing provider on RX claim	0.0	0.0	0.0		0.2	0.0		0.2		13.9	0.5	0.0	0.4
% prescribing provider on RX claim	100.0	100.0	100.0		100.0	100.0		100.0		100.0	100.0	100.0	100.0
% NPI billing provider on RX claim	0.0	0.0	0.0		0.0	0.0		0.0		15.0	0.0	0.2	0.0
% also a provider on IP claim	0.0	0.1	0.0		0.0	0.5		0.3		0.6	0.1	0.5	0.1
% also a provider on LT claim	0.0	0.0	0.0		0.0	0.0		0.0		0.1	0.0	0.0	0.0
% also a provider on OT claim	42.7	47.0	0.0		81.8	66.9		72.4		50.4	91.7	47.0	20.4
% provider IDs with NPI	42.8	47.0	0.0		86.7	54.7		72.7		42.4	40.6	47.2	13.9
% provider IDs linked to NPPES	42.8	47.0	0.0		86.7	54.7		72.6		42.4	40.6	47.2	13.9
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
average number of RX claims	348.1	431.6	461.5		796.8	786.7		647.4		380.1	624.7	331.1	378.0
average number of beneficiaries with RX claims	64.7	63.9	67.1		116.7	133.8		65.7		69.1	88.4	69.9	57.0
Provider IDs with NPI													
Number of provider IDs with NPI	32,254	16,549	4		15,619	9,164		11,949		27,935	9,980	9,029	5,704
% NPI source = MSIS	99.9	99.9	0.0		93.9	99.7		93.0		92.9	54.0	99.9	70.7
% NPI source = NPPES	0.1	0.1	100.0		6.1	0.3		7.0		7.1	46.0	0.1	29.3
% NPI source = state cross-reference file	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	32,253	16,549	4		15,619	9,161		11,945		27,932	9,980	9,029	5,690
% linked via NPI	99.9	99.9	0.0		93.9	99.7		93.0		92.9	54.0	99.9	70.6
% linked via Medicaid legacy provider ID	0.1	0.0	0.0		6.1	0.0		6.9		7.0	45.9	0.0	29.3
% linked via Medicare UPIN	0.1	0.1	100.0		0.0	0.2		0.0		0.1	0.0	0.1	0.1
% with name prefix	48.7	41.1	0.0		41.6	50.5		46.6		42.7	13.3	49.6	16.6
% with first name	99.5	98.3	75.0		98.2	96.0		94.5		90.9	47.7	94.2	31.5
% with middle name	66.8	78.5	50.0		77.6	79.1		66.1		67.2	41.4	77.0	26.0
% with last name	99.5	98.3	75.0		98.2	96.0		94.5		90.9	47.7	94.2	31.5
% with name suffix	1.7	2.6	0.0		3.8	7.9		2.3		1.8	0.7	7.6	1.1
% male	63.2	64.3	50.0		61.8	64.0		55.4		59.9	29.9	61.7	23.0
% female	36.3	34.0	25.0		36.4	32.0		39.1		31.0	17.8	32.5	8.5
% with credential	96.7	96.3	75.0		96.9	93.9		90.9		88.8	44.9	92.5	31.0
% with business name	0.3	1.4	25.0		1.6	3.6		5.2		8.8	52.3	5.4	68.4
% with address line 1	99.8	99.7	100.0		99.7	99.6		99.8		99.8	100.0	99.7	99.9
% with city	99.8	99.7	100.0		99.7	99.6		99.8		99.8	100.0	99.7	99.9
% with state	99.8	99.7	100.0		99.7	99.6		99.8		99.8	100.0	99.7	99.9
% state = RX state code	80.0	83.3	0.0		71.8	90.2		82.7		90.7	85.1	73.5	94.0
% with zip code	99.8	99.7	100.0		99.7	99.6		99.8		99.8	100.0	99.7	99.9
% with primary taxonomy	98.5	99.0	100.0		99.0	98.8		98.8		98.5	99.5	98.6	99.1
% with provider entity type = individual	99.5	98.3	75.0		98.2	96.0		94.5		90.9	47.7	94.2	31.5
% with provider entity type = organization	0.3	1.4	25.0		1.6	3.6		5.2		8.8	52.3	5.4	68.4

2011 MAX RX-Prescribing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
Provider IDs with or without NPI but linked to state provider file													
Number of provider IDs with or without NPI linked to state provider file	0	0	0		0	0		0		0	0	0	0
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	31,759	16,391	4		15,469	9,047		11,802		27,512	9,933	8,902	5,641
% individual or group of individuals	99.6	99.3	100.0		99.5	98.8		98.1		95.1	48.7	96.8	81.0
% allopathic and osteopathic physicians	80.3	73.6	50.0		70.0	71.8		78.8		74.9	35.6	65.5	73.5
% behavioral health and social service providers	0.1	0.2	0.0		0.1	0.2		0.2		0.1	0.3	0.2	0.1
% chiropractic providers	0.0	0.1	0.0		0.1	0.0		0.0		0.1	0.0	0.1	0.0
% dental providers	6.1	7.2	25.0		7.0	7.3		5.0		5.3	2.9	6.2	1.0
% dietary and nutritional service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% emergency medical service providers	0.0	0.1	0.0		0.1	0.0		0.1		0.0	0.0	0.1	0.1
% eye and vision service providers	2.5	3.4	0.0		2.9	1.8		0.3		1.9	2.0	3.0	0.8
% nursing service providers	0.1	0.1	0.0		0.1	0.1		0.3		0.1	0.1	0.3	0.0
% nursing service-related providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% other service providers	2.3	1.6	0.0		1.5	4.4		4.7		2.4	0.8	3.2	2.5
% pharmacy service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% physician assistants and advanced practice nursing providers	5.8	11.3	25.0		16.4	11.0		6.0		7.7	6.2	17.0	2.0
% podiatric medicine and surgery service providers	1.7	1.3	0.0		0.9	0.8		1.2		1.7	0.5	0.6	0.9
% respiratory, developmental, rehabilitative, and restorative service providers	0.1	0.0	0.0		0.0	0.0		0.0		0.1	0.1	0.1	0.0
% speech, language, and hearing service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% student health care	0.6	0.3	0.0		0.4	1.3		1.3		0.8	0.0	0.5	0.0
% technologists, technicians, and other technical service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% group of individuals with multi- or single specialty	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% nonindividuals	0.4	0.7	0.0		0.5	1.2		1.9		4.9	51.3	3.2	19.0
% agencies	0.0	0.1	0.0		0.0	0.1		0.2		0.3	1.5	0.1	0.5
% ambulatory health care facilities	0.1	0.1	0.0		0.1	0.6		0.7		0.9	1.5	1.2	14.3
% hospital units	0.0	0.0	0.0		0.0	0.0		0.0		0.1	0.1	0.0	0.0
% hospitals	0.1	0.3	0.0		0.1	0.5		0.5		2.2	45.0	1.4	3.8
% laboratories	0.0	0.0	0.0		0.0	0.0		0.0		0.2	1.4	0.0	0.0
% managed care organizations	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% nursing and custodial care facilities	0.0	0.0	0.0		0.0	0.0		0.1		0.0	0.2	0.0	0.0
% residential treatment facilities	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% respite care facility	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% suppliers	0.1	0.1	0.0		0.2	0.0		0.3		1.2	1.4	0.3	0.3
% transportation services	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.1	0.0	0.0
% nonmedical	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0

2011 MAX RX-Prescribing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	32,090	16,267	3		15,331	8,793		11,293		25,399	4,756	8,507	1,792
% a sole proprietorship	17.5	13.9	33.3		15.2	22.9		20.3		16.3	6.5	20.6	16.9
% not a sole proprietorship	75.6	82.1	66.7		81.2	68.6		70.9		75.8	92.3	74.1	82.1
% not answered	6.9	4.0	0.0		3.6	8.5		8.8		7.9	1.1	5.3	1.0
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	94	227	1		246	329		625		2,467	5,222	491	3,894
% organization is a subpart	6.4	14.5	0.0		8.1	5.2		9.9		7.0	11.3	10.8	13.3
% organization is not a subpart	80.9	68.7	100.0		78.9	77.8		78.7		80.1	84.5	71.7	81.1
% not answered	12.8	16.7	0.0		13.0	17.0		11.4		12.9	4.2	17.5	5.6

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
RX Providers													
Number of provider IDs	3,638	10,559					82,651	24,981			14,621	20,980	56,606
% billing provider on RX claim	0.0	0.0					2.9	0.2			0.0	0.0	0.0
% prescribing provider on RX claim	100.0	100.0					100.0	100.0			100.0	100.0	100.0
% NPI billing provider on RX claim	0.0	0.6					0.0	0.0			0.0	1.0	0.3
% also a provider on IP claim	0.2	0.0					0.1	0.2			0.0	0.1	0.0
% also a provider on LT claim	0.0	0.0					0.1	0.0			0.0	0.0	0.0
% also a provider on OT claim	84.1	47.8					81.9	91.4			75.3	60.2	3.3
% provider IDs with NPI	82.6	48.6					74.5	97.9			75.3	50.3	3.6
% provider IDs linked to NPPES	82.6	48.6					74.5	97.9			75.3	50.3	3.6
% provider IDs with or without NPI but linked to state provider file	0.0	0.0					0.0	0.0			0.0	0.0	0.0
average number of RX claims	282.1	223.2					743.8	407.1			474.8	197.2	174.6
average number of beneficiaries with RX claims	46.8	25.0					112.9	84.1			99.6	28.7	26.0
Provider IDs with NPI													
Number of provider IDs with NPI	3,005	5,133					61,550	24,449			11,010	10,555	2,027
% NPI source = MSIS	100.0	98.9					90.6	91.3			100.0	99.9	98.7
% NPI source = NPPES	0.0	1.1					9.4	3.6			0.0	0.1	1.3
% NPI source = state cross-reference file	0.0	0.0					0.0	5.0			0.0	0.0	0.0
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	3,005	5,133					61,548	24,449			11,010	10,555	2,027
% linked via NPI	100.0	98.9					90.6	96.4			100.0	99.9	98.7
% linked via Medicaid legacy provider ID	0.0	1.1					9.3	3.6			0.0	0.0	0.7
% linked via Medicare UPIN	0.0	0.1					0.0	0.0			0.0	0.1	0.6
% with name prefix	35.8	43.3					51.3	49.6			43.0	43.4	47.2
% with first name	99.0	97.6					98.8	95.1			99.6	97.0	88.4
% with middle name	79.7	72.5					60.2	79.3			80.5	80.7	62.5
% with last name	99.0	97.6					98.8	95.1			99.6	97.0	88.4
% with name suffix	1.6	1.9					1.5	6.4			3.7	2.0	2.9
% male	60.3	67.5					59.0	62.4			66.8	55.5	58.2
% female	38.7	30.2					39.8	32.7			32.8	41.5	30.1
% with credential	96.0	95.7					94.9	92.7			98.2	95.3	86.2
% with business name	0.8	2.0					1.0	4.5			0.1	2.7	11.1
% with address line 1	99.8	99.6					99.7	99.6			99.6	99.8	99.5
% with city	99.8	99.6					99.7	99.6			99.6	99.8	99.5
% with state	99.8	99.6					99.7	99.6			99.6	99.8	99.5
% state = RX state code	77.1	84.4					92.3	87.1			78.7	85.0	85.9
% with zip code	99.8	99.6					99.7	99.6			99.6	99.8	99.5
% with primary taxonomy	98.7	98.7					98.1	98.6			98.9	98.7	98.2
% with provider entity type = individual	99.0	97.6					98.8	95.1			99.6	97.0	88.4
% with provider entity type = organization	0.8	2.0					1.0	4.5			0.1	2.7	11.1

Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
Provider IDs with or without NPI but linked to state provider file													
Number of provider IDs with or without NPI linked to state provider file	0		0				0	0			0	0	0
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	2,966	5,064					60,381	24,116			10,888	10,416	1,991
% individual or group of individuals	99.2	98.4					99.3	98.6			99.9	97.4	95.6
% allopathic and osteopathic physicians	65.6	72.1					67.1	75.1			69.3	65.0	79.9
% behavioral health and social service providers	0.1	0.3					0.3	0.6			0.0	0.2	0.1
% chiropractic providers	0.0	0.0					0.0	0.1			0.0	0.0	0.0
% dental providers	2.1	7.0					8.2	8.1			7.9	7.8	7.8
% dietary and nutritional service providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% emergency medical service providers	0.0	0.0					0.1	0.0			0.1	0.1	0.1
% eye and vision service providers	3.8	2.7					1.7	3.0			4.3	1.8	1.3
% nursing service providers	0.1	0.3					0.3	0.1			0.1	0.2	0.0
% nursing service-related providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% other service providers	2.6	3.0					3.9	3.0			2.4	2.8	2.6
% pharmacy service providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% physician assistants and advanced practice nursing providers	23.2	11.3					14.1	6.9			13.9	18.0	1.1
% podiatric medicine and surgery service providers	1.2	1.0					2.2	0.9			0.7	1.0	1.2
% respiratory, developmental, rehabilitative, and restorative service providers	0.1	0.1					0.2	0.2			0.0	0.1	0.0
% speech, language, and hearing service providers	0.0	0.0					0.1	0.1			0.0	0.0	0.0
% student health care	0.5	0.3					1.1	0.4			1.1	0.6	1.7
% technologists, technicians, and other technical service providers	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% group of individuals with multi- or single specialty	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% nonindividuals	0.8	1.6					0.7	1.4			0.1	2.6	4.4
% agencies	0.1	0.1					0.0	0.1			0.0	0.1	0.4
% ambulatory health care facilities	0.2	0.2					0.2	0.8			0.1	0.3	1.8
% hospital units	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% hospitals	0.3	0.1					0.3	0.2			0.0	0.2	1.9
% laboratories	0.0	0.0					0.0	0.0			0.0	0.0	0.1
% managed care organizations	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% nursing and custodial care facilities	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% residential treatment facilities	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% respite care facility	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% suppliers	0.2	1.2					0.1	0.2			0.0	1.9	0.2
% transportation services	0.0	0.0					0.0	0.0			0.0	0.0	0.1
% nonmedical	0.0	0.0					0.0	0.0			0.0	0.0	0.0

2011 MAX RX-Prescribing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	2,974	5,012					60,779	23,258			10,962	10,240	1,791
% a sole proprietorship	14.0	18.7					29.0	14.3			19.1	15.5	23.6
% not a sole proprietorship	80.0	76.0					63.2	81.3			75.4	78.7	69.7
% not answered	6.1	5.3					7.8	4.3			5.5	5.8	6.8
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	25	102					585	1,105			8	290	226
% organization is a subpart	4.0	11.8					6.3	9.5			0.0	13.4	8.4
% organization is not a subpart	84.0	77.5					69.6	73.1			50.0	79.3	79.6
% not answered	12.0	10.8					24.1	17.4			50.0	7.2	11.9

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
RX Providers												
Number of provider IDs		23,374	5,260	64,376	57,637		4,827	41,302	62,388	18,497	37,134	3,288
% billing provider on RX claim		0.2	0.0	0.0	0.0		0.1	0.1	0.0	0.0	0.2	0.1
% prescribing provider on RX claim		100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0
% NPI billing provider on RX claim		99.8	0.0	0.0	0.0		0.0	0.1	0.6	0.0	0.2	0.0
% also a provider on IP claim		15.3	0.0	0.0	0.0		0.0	0.3	0.0	0.0	0.1	0.1
% also a provider on LT claim		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% also a provider on OT claim		57.6	0.0	32.5	0.0		84.4	48.0	33.2	7.4	61.1	86.1
% provider IDs with NPI		99.8	0.0	10.3	1.7		85.4	48.0	33.5	7.4	20.8	53.1
% provider IDs linked to NPPES		99.5	0.0	10.3	1.7		85.4	48.0	33.5	7.4	20.8	53.1
% provider IDs with or without NPI but linked to state provider file		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
average number of RX claims		218.7	185.0	209.6	686.9		469.8	259.8	223.0	321.4	413.5	182.3
average number of beneficiaries with RX claims		51.1	35.9	49.9	121.4		74.8	42.4	35.1	43.9	66.7	39.1
Provider IDs with NPI												
Number of provider IDs with NPI		23,337	1	6,612	997		4,121	19,820	20,870	1,373	7,719	1,745
% NPI source = MSIS		100.0	0.0	99.5	0.5		98.6	98.9	99.6	99.3	90.8	87.8
% NPI source = NPPES		0.0	100.0	0.5	99.5		1.4	1.1	0.4	0.7	9.2	12.2
% NPI source = state cross-reference file		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Provider IDs Linked to NPPES												
Number of provider IDs linked to NPPES		23,260	1	6,612	992		4,121	19,820	20,870	1,373	7,719	1,745
% linked via NPI		100.0	0.0	99.5	0.0		98.6	98.9	99.6	99.3	90.8	87.8
% linked via Medicaid legacy provider ID		0.0	100.0	0.2	2.9		1.3	1.1	0.3	0.1	9.1	12.1
% linked via Medicare UPIN		0.0	0.0	0.4	97.1		0.0	0.0	0.0	0.6	0.1	0.1
% with name prefix		48.4	0.0	34.0	37.3		50.7	45.4	35.2	45.4	34.7	42.2
% with first name		97.8	100.0	60.9	69.2		99.6	98.0	97.2	99.1	85.0	97.5
% with middle name		81.2	100.0	51.0	51.6		77.9	77.5	78.0	78.2	70.7	77.2
% with last name		97.8	100.0	60.9	69.2		99.6	98.0	97.2	99.1	85.0	97.5
% with name suffix		7.0	0.0	3.6	1.9		2.7	4.8	1.7	3.4	1.2	2.1
% male		60.6	100.0	37.6	44.8		55.8	61.6	56.6	56.2	46.6	63.4
% female		37.3	0.0	23.4	24.4		43.8	36.3	40.6	42.9	38.4	34.1
% with credential		95.1	100.0	59.2	67.0		97.2	95.3	92.7	96.9	82.8	95.0
% with business name		1.7	0.0	38.8	30.8		0.3	1.8	2.6	0.7	14.8	2.3
% with address line 1		99.5	100.0	99.8	100.0		99.9	99.8	99.8	99.8	99.8	99.8
% with city		99.5	100.0	99.8	100.0		99.9	99.8	99.8	99.8	99.8	99.8
% with state		99.5	100.0	99.8	100.0		99.9	99.8	99.8	99.8	99.8	99.8
% state = RX state code		57.0	100.0	77.7	16.1		56.7	79.1	85.8	60.2	73.0	48.6
% with zip code		99.5	100.0	99.8	100.0		99.9	99.8	99.8	99.8	99.8	99.8
% with primary taxonomy		98.7	100.0	99.3	97.6		98.4	98.9	99.0	98.8	98.9	99.1
% with provider entity type = individual		97.8	100.0	60.9	69.2		99.6	98.0	97.2	99.1	85.0	97.5
% with provider entity type = organization		1.7	0.0	38.8	30.8		0.3	1.8	2.6	0.7	14.8	2.3

Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
Provider IDs with or without NPI but linked to state provider file												
Number of provider IDs with or without NPI linked to state provider file		0	0	0	0		0	0	0	0	0	0
Provider IDs with NPPES Primary Taxonomy												
Number of provider IDs with NPPES primary taxonomy		22,960	1	6,568	968		4,054	19,605	20,653	1,357	7,632	1,730
% individual or group of individuals		99.4	100.0	61.4	90.6		99.9	98.7	97.9	99.5	86.1	98.8
% allopathic and osteopathic physicians		68.6	100.0	16.6	48.9		64.8	73.3	66.2	57.4	38.3	62.8
% behavioral health and social service providers		0.9	0.0	0.7	5.9		0.2	0.2	0.1	0.0	0.8	0.2
% chiropractic providers		0.2	0.0	0.1	9.3		0.0	0.0	0.0	0.1	0.3	0.0
% dental providers		7.5	0.0	18.7	2.9		7.3	5.9	6.8	8.1	13.4	12.4
% dietary and nutritional service providers		0.0	0.0	0.0	0.4		0.0	0.0	0.0	0.0	0.0	0.0
% emergency medical service providers		0.0	0.0	0.0	0.2		0.0	0.0	0.0	0.1	0.0	0.1
% eye and vision service providers		1.7	0.0	7.9	5.1		1.8	2.3	2.7	6.8	6.9	5.0
% nursing service providers		0.2	0.0	0.3	0.2		0.4	0.1	0.2	0.4	0.3	0.1
% nursing service-related providers		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% other service providers		2.8	0.0	0.8	7.0		1.7	3.8	2.0	2.8	0.5	1.2
% pharmacy service providers		1.0	0.0	0.0	0.1		0.0	0.0	0.0	0.0	0.0	0.0
% physician assistants and advanced practice nursing providers		13.9	0.0	15.2	6.6		19.5	10.9	18.3	21.7	23.5	16.0
% podiatric medicine and surgery service providers		0.7	0.0	0.2	1.3		0.7	1.4	1.1	0.7	1.1	0.5
% respiratory, developmental, rehabilitative, and restorative service providers		0.4	0.0	0.7	2.0		0.0	0.0	0.1	0.0	0.4	0.2
% speech, language, and hearing service providers		0.2	0.0	0.0	0.4		0.0	0.0	0.0	0.0	0.1	0.0
% student health care		1.2	0.0	0.3	0.0		3.6	0.7	0.3	1.5	0.5	0.4
% technologists, technicians, and other technical service providers		0.0	0.0	0.0	0.3		0.0	0.0	0.0	0.0	0.0	0.0
% group of individuals with multi- or single specialty		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% nonindividuals		0.6	0.0	38.6	9.4		0.1	1.3	2.1	0.5	13.9	1.2
% agencies		0.0	0.0	0.6	1.5		0.0	0.1	0.0	0.0	0.3	0.1
% ambulatory health care facilities		0.3	0.0	0.5	4.5		0.0	0.3	0.2	0.3	0.8	0.5
% hospital units		0.0	0.0	0.1	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% hospitals		0.1	0.0	37.1	0.3		0.0	0.5	0.2	0.2	11.6	0.3
% laboratories		0.0	0.0	0.0	0.3		0.0	0.0	0.0	0.0	0.0	0.0
% managed care organizations		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.1
% nursing and custodial care facilities		0.0	0.0	0.1	0.3		0.0	0.0	0.0	0.0	0.4	0.1
% residential treatment facilities		0.0	0.0	0.1	0.3		0.0	0.0	0.0	0.0	0.0	0.1
% respite care facility		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% suppliers		0.0	0.0	0.1	1.4		0.1	0.3	1.7	0.0	0.7	0.1
% transportation services		0.0	0.0	0.0	0.6		0.0	0.0	0.0	0.0	0.0	0.0
% nonmedical		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0

2011 MAX RX-Prescribing Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
Provider IDs with Entity Type = Individual												
Number of provider IDs with entity type = individual		22,758	1	4,030	686		4,105	19,418	20,286	1,361	6,560	1,701
% a sole proprietorship		16.8	0.0	25.8	36.7		15.5	13.7	14.1	19.0	9.9	18.3
% not a sole proprietorship		78.5	0.0	65.9	55.4		79.5	80.9	81.4	76.6	82.0	77.0
% not answered		4.7	100.0	8.2	7.9		4.9	5.4	4.5	4.4	8.1	4.6
Provider IDs with Entity Type = Organization												
Number of provider IDs with entity type = organization		384	0	2,567	306		11	358	549	9	1,146	41
% organization is a subpart		7.3	0.0	6.2	5.2		9.1	8.7	17.7	0.0	6.6	9.8
% organization is not a subpart		69.5	0.0	87.6	73.5		72.7	80.4	72.5	77.8	85.3	63.4
% not answered		23.2	0.0	6.2	21.2		18.2	10.9	9.8	22.2	8.1	26.8

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
All Providers													
Number of provider IDs	71,940	24,328	55,429				74,789	12,743	11,538		159,948	14,662	
% billing provider on IP claim	0.5	0.4	0.5				0.4	0.4	0.8		0.4	0.9	
% NPI billing provider on IP claim	0.5	0.4	0.4				0.4	0.9	0.7		0.3	0.8	
% billing provider on LT claim	0.4	0.3	0.6				0.5	0.6	1.1		0.2	0.3	
% NPI billing provider on LT claim	0.4	0.3	0.5				0.5	0.6	0.8		0.2	0.3	
% billing provider on OT claim	11.1	14.4	22.6				19.7	16.3	39.6		15.2	46.5	
% servicing provider on OT claim	44.4	56.8	48.3				39.6	74.2	45.8		48.3	46.6	
% NPI servicing provider on OT claim	26.5	32.0	40.0				29.8	66.9	37.6		22.3	37.7	
% billing provider on RX claim	2.0	0.8	1.6				2.1	2.3	2.4		2.7	1.8	
% prescribing provider on RX claim	19.8	14.0	16.3				40.9	45.8	28.9		28.0	10.7	
% NPI billing provider on RX claim	2.0	0.8	1.6				1.5	2.2	10.1		2.6	1.8	
% billing provider	13.2	15.3	24.7				21.5	18.3	40.3		18.4	47.4	
% NPI billing provider	2.8	1.5	2.5				2.4	3.7	11.6		3.1	2.6	
% servicing provider	44.4	56.8	48.3				39.6	74.2	45.8		48.3	46.6	
% NPI servicing provider	26.5	32.0	40.0				29.8	66.9	37.6		22.3	37.7	
% prescribing provider	19.8	14.0	16.3				40.9	45.8	28.9		28.0	10.7	
% provider IDs with NPI	76.9	62.5	77.7				63.4	70.1	70.1		73.1	60.0	
% provider IDs linked to NPPES	76.8	61.2	77.5				63.1	69.1	70.1		73.1	60.0	
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	
average number of claims	1648.1	705.4	1,818.7				1,453.9	1,870.0	2266.5		1,408.5	1656.2	
average number of beneficiaries with claims	256.2	100.1	238.8				176.5	206.9	280.1		230.5	247.9	
Provider IDs with NPI													
Number of provider IDs with NPI	55,289	15,198	43,044				47,415	8,930	8,091		116,871	8,800	
% NPI source = MSIS	97.4	96.6	93.4				99.5	99.3	94.1		99.4	96.9	
% NPI source = NPPES	2.6	3.4	6.6				0.5	0.7	5.9		0.6	3.1	
% NPI source = state cross-reference file	0.0	0.0	0.0				0.0	0.0	0.0		0.0	0.0	
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	55,272	14,900	42,976				47,200	8,804	8,087		116,863	8,799	
% linked via NPI	97.4	96.5	93.4				99.5	99.3	94.1		99.4	96.9	
% linked via Medicaid legacy provider ID	1.5	3.4	6.0				0.4	0.7	5.8		0.6	2.5	
% linked via Medicare UPIN	1.1	0.1	0.6				0.0	0.0	0.0		0.0	0.6	
% with name prefix	36.3	31.9	37.5				34.3	33.4	22.3		37.5	39.5	
% with first name	80.7	91.4	82.9				76.8	84.6	49.8		81.8	63.6	
% with middle name	67.9	70.2	60.2				50.8	55.6	32.3		64.8	50.6	
% with last name	80.7	91.4	82.9				76.8	84.6	49.8		81.8	63.6	
% with name suffix	6.5	2.2	3.4				1.3	2.0	1.3		4.6	1.6	
% male	55.6	47.0	45.9				44.4	44.9	29.5		51.5	39.7	
% female	25.2	44.4	36.9				32.4	39.7	20.3		30.4	23.9	
% with credential	79.2	78.1	75.2				74.1	75.4	46.3		79.5	61.9	
% with business name	19.1	8.5	16.9				23.1	15.1	49.8		17.9	36.0	
% with address line 1	99.8	99.9	99.8				99.8	99.7	99.7		99.8	99.6	
% with city	99.8	99.9	99.8				99.8	99.7	99.7		99.8	99.6	
% with state	99.8	99.9	99.8				99.8	99.7	99.7		99.8	99.6	
% state = claim file state code	77.7	58.5	77.6				72.2	60.1	48.5		83.6	88.0	
% with zip code	99.8	99.9	99.8				99.8	99.7	99.7		99.8	99.6	
% with primary taxonomy	97.8	98.3	98.9				97.5	98.4	97.8		98.4	97.0	
% with provider entity type = individual	80.7	91.4	82.9				76.8	84.6	49.8		81.8	63.6	
% with provider entity type = organization	19.1	8.5	16.9				23.1	15.1	49.8		17.9	36.0	

Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
Provider IDs with or without NPI but linked to state provider file													
Number of provider IDs with or without NPI linked to state provider file	0	0		0			0	0	0		0	0	
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	54,054	14,641		42,509			46,037	8,663	7,908		114,968	8,537	
% individual or group of individuals	83.7	92.2		86.7			83.8	87.5	62.9		83.7	78.8	
% allopathic and osteopathic physicians	57.5	50.2		43.7			56.9	51.8	51.9		55.3	46.7	
% behavioral health and social service providers	0.9	3.9		6.4			5.1	8.3	0.4		2.6	9.9	
% chiropractic providers	0.2	1.5		0.6			0.6	0.1	0.0		0.1	0.1	
% dental providers	3.5	5.2		2.1			4.6	2.9	3.3		3.2	3.5	
% dietary and nutritional service providers	0.0	0.3		0.0			0.0	0.2	0.1		0.0	0.2	
% emergency medical service providers	0.0	0.0		0.1			0.0	0.0	0.0		0.0	0.0	
% eye and vision service providers	2.2	1.9		2.1			1.6	1.1	0.4		1.3	3.8	
% nursing service providers	0.2	2.1		0.9			0.1	3.5	0.1		0.2	0.3	
% nursing service-related providers	0.0	0.5		0.4			0.0	0.0	0.0		0.0	0.1	
% other service providers	3.3	5.9		8.4			2.0	1.6	2.3		3.0	4.6	
% pharmacy service providers	0.4	0.0		0.3			0.0	0.1	0.1		0.2	0.1	
% physician assistants and advanced practice nursing providers	12.3	13.1		6.6			9.3	8.8	2.4		12.9	3.2	
% podiatric medicine and surgery service providers	0.3	0.3		0.6			1.0	0.8	1.2		0.8	0.7	
% respiratory, developmental, rehabilitative, and restorative service providers	1.3	5.1		6.6			1.4	4.8	0.0		1.9	5.0	
% speech, language, and hearing service providers	0.7	1.7		6.8			0.4	2.4	0.3		1.8	0.3	
% student health care	0.8	0.5		0.9			0.4	1.1	0.4		0.1	0.3	
% technologists, technicians, and other technical service providers	0.0	0.1		0.1			0.0	0.0	0.0		0.0	0.1	
% group of individuals with multi- or single specialty	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	
% nonindividuals	16.3	7.8		13.3			16.2	12.5	37.1		16.3	21.2	
% agencies	2.3	1.2		1.8			1.3	0.6	2.6		3.7	3.0	
% ambulatory health care facilities	1.2	0.9		1.3			1.7	1.7	3.4		1.7	4.0	
% hospital units	0.1	0.1		0.0			0.1	0.1	0.1		0.0	0.2	
% hospitals	2.1	0.9		1.1			3.8	2.8	4.8		1.6	2.9	
% laboratories	0.7	0.6		0.4			0.7	0.6	1.0		0.4	0.6	
% managed care organizations	0.0	0.0		0.0			0.0	0.0	0.1		0.0	1.6	
% nursing and custodial care facilities	0.8	0.9		1.5			1.6	0.6	1.8		0.8	1.1	
% residential treatment facilities	0.4	0.4		0.1			0.1	0.2	1.9		0.5	0.1	
% respite care facility	0.0	0.1		0.0			0.0	0.0	0.1		0.0	0.0	
% suppliers	7.9	2.1		6.6			5.8	5.0	20.9		7.2	7.4	
% transportation services	0.7	0.5		0.6			1.1	0.7	0.3		0.4	0.3	
% nonmedical	0.0	0.0		0.0			0.0	0.0	0.0		0.0	0.0	

2011 MAX All Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	ID
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	44,611	13,616		35,608			36,232	7,448	4,031		95,646	5,595	
% a sole proprietorship	16.3	18.5		22.6			16.9	15.7	26.2		18.9	37.4	
% not a sole proprietorship	76.7	77.7		71.7			75.7	78.2	67.5		75.0	56.1	
% not answered	7.0	3.8		5.7			7.4	6.1	6.4		6.2	6.5	
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	10,546	1,266		7,267			10,880	1,328	4,031		20,950	3,172	
% organization is a subpart	13.5	12.2		17.1			8.9	16.3	8.5		16.2	7.9	
% organization is not a subpart	64.6	68.2		69.2			72.3	67.7	81.0		68.4	71.1	
% not answered	21.9	19.7		13.7			18.8	16.0	10.5		15.4	21.0	

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

2011 MAX All Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
All Providers													
Number of provider IDs	211,070	83,862	85,724		69,241	56,931		104,685		250,224	190,520	48,210	108,690
% billing provider on IP claim	0.2	0.5	0.4		0.6	0.9		0.2		0.5	0.2	0.7	0.4
% NPI billing provider on IP claim	0.3	0.5	0.3		0.6	1.4		0.2		0.3	0.2	0.7	0.4
% billing provider on LT claim	0.4	1.3	0.8		0.6	1.5		0.2		0.3	0.4	0.5	0.5
% NPI billing provider on LT claim	0.6	1.1	0.8		0.5	0.7		0.3		0.2	0.4	0.6	0.5
% billing provider on OT claim	7.4	13.4	20.9		35.7	21.3		12.8		53.6	48.9	15.5	11.3
% servicing provider on OT claim	45.3	34.6	46.1		67.7	39.7		64.6		66.1	14.3	35.7	48.7
% NPI servicing provider on OT claim	25.7	35.0	33.7		39.7	43.9		28.5		16.5	48.5	36.2	10.5
% billing provider on RX claim	0.5	1.6	1.2		2.6	2.1		1.3		8.6	0.8	1.8	2.7
% prescribing provider on RX claim	35.7	42.0	15.8		26.0	29.4		15.7		26.3	12.9	39.7	37.8
% NPI billing provider on RX claim	1.3	1.6	14.8		2.0	0.8		1.2		7.9	0.8	1.8	2.5
% billing provider	7.9	15.0	21.6		37.9	25.1		14.3		59.3	49.2	17.6	12.7
% NPI billing provider	2.2	3.2	15.9		3.1	2.9		1.7		8.3	1.3	3.0	3.2
% servicing provider	45.3	34.6	46.1		67.7	39.7		64.6		66.1	14.3	35.7	48.7
% NPI servicing provider	25.7	35.0	33.7		39.7	43.9		28.5		16.5	48.5	36.2	10.5
% prescribing provider	35.7	42.0	15.8		26.0	29.4		15.7		26.3	12.9	39.7	37.8
% provider IDs with NPI	52.4	74.7	80.2		85.0	78.1		59.2		35.3	60.2	76.5	53.7
% provider IDs linked to NPPES	52.4	73.9	67.8		85.0	73.7		49.2		35.1	33.3	76.3	34.3
% provider IDs with or without NPI but linked to state provider file	0.0	0.7	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
average number of claims	1662.7	1,697.0	937.1		2,034.1	2550.6		1,165.6		1,041.5	947.8	1,735.8	1,602.0
average number of beneficiaries with claims	272.1	244.3	128.0		303.7	381.2		111.0		149.2	99.8	279.1	210.4
Provider IDs with NPI													
Number of provider IDs with NPI	110,688	62,617	68,714		58,869	44,436		61,965		88,422	114,783	36,870	58,401
% NPI source = MSIS	99.9	80.2	98.7		95.7	99.9		98.2		91.9	94.1	98.3	93.0
% NPI source = NPPES	0.1	6.5	1.3		4.3	0.1		1.8		8.1	5.9	1.7	7.0
% NPI source = state cross-reference file	0.0	13.3	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	110,681	61,954	58,085		58,869	41,933		51,515		87,770	63,516	36,799	37,281
% linked via NPI	99.9	93.4	98.5		95.7	99.9		97.8		91.8	89.3	98.3	89.0
% linked via Medicaid legacy provider ID	0.1	6.5	1.5		4.3	0.0		2.2		8.1	10.7	1.7	11.0
% linked via Medicare UPIN	0.0	0.0	0.0		0.0	0.1		0.0		0.1	0.0	0.0	0.0
% with name prefix	38.6	29.7	28.2		31.5	32.9		35.7		22.5	22.2	36.0	9.3
% with first name	81.1	73.4	75.7		75.5	67.8		73.0		48.1	67.9	73.4	16.3
% with middle name	55.3	57.3	63.1		59.2	55.5		50.1		36.2	56.8	58.9	13.5
% with last name	81.1	73.4	75.7		75.5	67.8		73.0		48.1	67.9	73.4	16.3
% with name suffix	1.3	1.9	1.3		2.9	5.0		1.8		1.0	0.9	5.5	0.6
% male	47.9	47.5	50.1		48.5	42.4		41.2		31.8	36.3	47.0	10.2
% female	33.2	25.9	25.5		27.1	25.4		31.8		16.3	31.6	26.4	6.1
% with credential	77.5	71.7	74.6		74.4	65.9		69.9		46.8	63.9	71.4	15.7
% with business name	18.7	26.4	24.1		24.2	31.9		26.8		51.7	31.9	26.4	83.6
% with address line 1	99.8	99.7	99.7		99.7	99.7		99.8		99.8	99.8	99.7	99.9
% with city	99.8	99.7	99.7		99.7	99.7		99.8		99.8	99.8	99.7	99.9
% with state	99.8	99.7	99.7		99.7	99.7		99.8		99.8	99.8	99.7	99.9
% state = claim file state code	75.7	76.1	61.9		65.5	83.8		77.9		80.7	81.3	63.6	83.3
% with zip code	99.8	99.7	99.7		99.7	99.7		99.8		99.8	99.8	99.7	99.9
% with primary taxonomy	98.3	98.7	98.6		98.8	98.7		98.2		98.2	98.5	98.5	98.0
% with provider entity type = individual	81.1	73.4	75.7		75.5	67.8		73.0		48.1	67.9	73.4	16.3
% with provider entity type = organization	18.7	26.4	24.1		24.2	31.9		26.8		51.7	31.9	26.4	83.6

2011 MAX All Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
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	615	0		0	0		0		0	0	0	0
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	108,768	61,170	57,262		58,144	41,403		50,569		86,158	62,543	36,240	36,528
% individual or group of individuals	82.0	81.8	83.8		80.5	77.5		82.8		71.2	71.3	81.4	53.1
% allopathic and osteopathic physicians	58.7	56.8	56.4		55.3	48.7		58.8		49.6	34.4	52.0	37.8
% behavioral health and social service providers	0.5	2.5	1.1		0.4	1.6		5.7		0.8	9.0	1.5	5.5
% chiropractic providers	0.9	2.0	4.7		1.7	0.2		0.1		2.6	3.3	0.7	0.3
% dental providers	3.9	4.2	4.9		4.4	4.0		4.1		4.2	4.6	3.4	1.4
% dietary and nutritional service providers	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.3	0.0	0.0
% emergency medical service providers	0.0	0.1	0.1		0.0	0.0		0.0		0.0	0.0	0.0	0.1
% eye and vision service providers	1.7	2.8	2.5		2.0	1.3		0.6		1.8	2.1	2.0	1.9
% nursing service providers	0.2	0.1	0.1		0.1	0.4		0.3		0.2	0.4	0.5	0.1
% nursing service-related providers	0.0	0.0	0.0		0.0	1.2		0.0		0.0	0.0	0.2	0.3
% other service providers	1.8	1.6	1.0		1.4	3.5		3.9		2.4	1.0	2.7	1.9
% pharmacy service providers	0.1	0.0	0.1		0.1	0.1		0.1		0.1	0.2	0.4	0.3
% physician assistants and advanced practice nursing providers	6.0	7.9	8.8		13.2	13.2		5.1		6.5	11.3	14.3	1.5
% podiatric medicine and surgery service providers	1.1	1.0	1.0		0.7	0.6		1.3		1.6	0.5	0.5	0.9
% respiratory, developmental, rehabilitative, and restorative service providers	4.1	1.6	2.1		0.6	0.8		1.4		0.7	2.7	1.6	0.6
% speech, language, and hearing service providers	2.6	0.7	0.5		0.2	1.2		0.4		0.3	1.1	1.0	0.4
% student health care	0.4	0.2	0.3		0.4	0.7		0.9		0.3	0.4	0.4	0.0
% technologists, technicians, and other technical service providers	0.0	0.0	0.0		0.0	0.1		0.0		0.0	0.0	0.0	0.0
% group of individuals with multi- or single specialty	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0
% nonindividuals	18.0	18.2	16.2		19.5	22.5		17.2		28.8	28.7	18.6	46.9
% agencies	2.7	2.2	3.0		4.2	8.4		1.6		2.1	3.4	1.4	9.5
% ambulatory health care facilities	2.2	1.7	2.0		1.6	3.5		3.2		4.6	2.5	3.1	13.7
% hospital units	0.1	0.1	0.2		0.2	0.2		0.0		0.1	0.3	0.2	0.1
% hospitals	2.5	2.7	1.5		1.8	3.6		1.8		5.7	11.6	3.1	3.7
% laboratories	0.4	0.5	0.4		0.7	0.6		0.5		0.4	0.5	0.8	0.9
% managed care organizations	0.0	0.0	0.0		0.0	0.6		0.1		0.4	0.1	0.1	0.1
% nursing and custodial care facilities	1.5	2.5	2.7		1.0	1.2		1.4		1.1	2.7	1.3	3.9
% residential treatment facilities	0.5	0.8	0.4		0.3	0.5		0.1		0.0	0.7	0.1	2.4
% respite care facility	0.0	0.0	0.0		0.0	0.3		0.0		0.0	0.0	0.1	0.1
% suppliers	6.9	6.5	4.7		8.7	3.3		7.7		13.4	6.2	8.0	11.1
% transportation services	1.2	1.1	1.3		1.0	0.3		0.7		1.0	0.7	0.4	1.3
% nonmedical	0.0	0.0	0.0		0.0	0.0		0.0		0.0	0.0	0.0	0.0

2011 MAX All Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	89,775	45,456	43,947		44,462	28,441		37,593		42,257	43,149	26,993	6,067
% a sole proprietorship	18.2	13.9	11.0		14.3	23.4		21.0		18.3	12.4	19.8	38.3
% not a sole proprietorship	74.9	81.2	78.9		81.4	69.2		69.7		72.8	76.3	74.2	56.4
% not answered	6.8	4.9	10.1		4.3	7.4		9.3		8.9	11.4	6.0	5.4
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	20,688	16,338	13,989		14,217	13,387		13,821		45,337	20,260	9,706	31,161
% organization is a subpart	19.0	13.0	11.1		12.5	7.2		10.1		14.7	13.4	15.9	14.7
% organization is not a subpart	63.3	69.2	67.5		75.3	68.4		76.1		72.7	72.7	67.9	72.5
% not answered	17.7	17.7	21.4		12.2	24.4		13.8		12.6	13.9	16.2	12.8

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
All Providers													
Number of provider IDs	21,029	37,294					293,377	116,055			67,632	80,852	166,290
% billing provider on IP claim	0.9	0.5					0.3	0.4			0.7	0.2	0.3
% NPI billing provider on IP claim	0.9	0.5					0.3	0.4			0.7	0.2	0.3
% billing provider on LT claim	0.6	0.3					0.6	0.9			0.7	0.2	0.6
% NPI billing provider on LT claim	0.6	0.3					0.6	0.7			0.7	0.2	0.5
% billing provider on OT claim	27.2	15.9					33.2	23.0			16.8	37.6	15.3
% servicing provider on OT claim	46.4	33.3					43.6	47.1			42.4	69.6	35.0
% NPI servicing provider on OT claim	41.6	33.1					49.4	43.7			41.9	23.4	25.5
% billing provider on RX claim	1.7	1.4					2.4	1.9			1.6	0.9	2.2
% prescribing provider on RX claim	17.3	28.3					28.2	21.5			21.6	25.9	34.0
% NPI billing provider on RX claim	1.7	1.4					2.5	1.9			1.6	0.9	2.2
% billing provider	29.6	17.9					33.8	24.2			18.8	38.7	17.0
% NPI billing provider	3.1	2.2					3.3	3.0			2.9	1.3	3.0
% servicing provider	46.4	33.3					43.6	47.1			42.4	69.6	35.0
% NPI servicing provider	41.6	33.1					49.4	43.7			41.9	23.4	25.5
% prescribing provider	17.3	28.3					28.2	21.5			21.6	25.9	34.0
% provider IDs with NPI	89.5	71.8					89.7	98.1			86.6	52.3	58.1
% provider IDs linked to NPPES	89.5	68.8					89.4	98.1			85.3	52.3	58.1
% provider IDs with or without NPI but linked to state provider file	0.0	0.0					0.0	0.0			0.0	0.0	0.0
average number of claims	729.7	754.8					2,350.1	2,702.7			1,516.7	1,024.1	997.5
average number of beneficiaries with claims	112.8	110.4					288.9	347.6			231.6	126.7	113.9
Provider IDs with NPI													
Number of provider IDs with NPI	18,821	26,788					263,303	113,883			58,557	42,323	96,695
% NPI source = MSIS	100.0	96.8					97.0	93.9			98.1	97.6	99.9
% NPI source = NPPES	0.0	3.2					3.0	2.7			1.9	2.4	0.1
% NPI source = state cross-reference file	0.0	0.0					0.0	3.4			0.0	0.0	0.0
Provider IDs Linked to NPPES													
Number of provider IDs linked to NPPES	18,821	25,647					262,246	113,877			57,663	42,323	96,693
% linked via NPI	100.0	96.7					97.0	97.3			98.1	97.6	99.9
% linked via Medicaid legacy provider ID	0.0	3.3					3.0	2.7			1.7	1.6	0.1
% linked via Medicare UPIN	0.0	0.0					0.0	0.0			0.2	0.8	0.0
% with name prefix	29.2	32.7					42.7	33.4			33.7	38.1	36.6
% with first name	76.8	81.5					85.0	66.4			79.8	85.4	78.5
% with middle name	59.9	56.7					51.2	54.3			62.0	70.0	57.8
% with last name	76.8	81.5					85.0	66.4			79.8	85.4	78.5
% with name suffix	1.4	1.6					1.2	3.8			2.6	1.6	2.4
% male	45.3	48.5					45.8	37.4			43.6	50.2	52.1
% female	31.5	33.0					39.3	29.0			36.2	35.3	26.5
% with credential	71.9	68.0					79.5	63.7			71.3	83.3	76.0
% with business name	23.0	18.3					14.6	33.3			19.9	14.3	21.3
% with address line 1	99.8	99.8					99.6	99.8			99.7	99.7	99.8
% with city	99.8	99.8					99.6	99.8			99.7	99.7	99.8
% with state	99.8	99.8					99.6	99.8			99.7	99.7	99.8
% state = claim file state code	61.5	74.3					83.0	87.7			76.1	75.9	88.9
% with zip code	99.8	99.8					99.6	99.8			99.7	99.7	99.8
% with primary taxonomy	98.0	98.6					98.0	98.3			98.5	98.0	98.5
% with provider entity type = individual	76.8	81.5					85.0	66.4			79.8	85.4	78.5
% with provider entity type = organization	23.0	18.3					14.6	33.3			19.9	14.3	21.3

Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
Provider IDs with or without NPI but linked to state provider file													
Number of provider IDs with or without NPI linked to state provider file	0		0				0	2			0	0	0
Provider IDs with NPPES Primary Taxonomy													
Number of provider IDs with NPPES primary taxonomy	18,440	25,299					257,063	111,917			56,809	41,488	95,198
% individual or group of individuals	77.9	83.2					89.4	76.5			83.1	87.6	80.7
% allopathic and osteopathic physicians	45.1	46.3					50.7	43.5			42.4	53.4	60.4
% behavioral health and social service providers	7.2	9.3					8.9	9.4			18.5	3.7	0.5
% chiropractic providers	1.1	0.2					0.3	1.2			0.1	0.7	1.1
% dental providers	4.4	3.8					4.9	4.2			2.6	5.5	2.6
% dietary and nutritional service providers	0.1	0.0					0.3	0.0			0.4	0.2	0.0
% emergency medical service providers	0.1	0.0					0.1	0.0			0.1	0.1	0.1
% eye and vision service providers	1.9	1.8					1.6	2.0			2.1	2.0	1.3
% nursing service providers	0.1	0.8					4.9	0.1			0.6	1.0	0.5
% nursing service-related providers	0.0	0.1					0.0	0.3			0.1	0.0	0.0
% other service providers	1.3	3.3					3.2	2.3			3.3	2.9	4.0
% pharmacy service providers	0.1	0.0					0.2	0.1			0.2	0.1	0.2
% physician assistants and advanced practice nursing providers	10.5	5.7					8.6	7.7			8.0	12.2	2.4
% podiatric medicine and surgery service providers	0.4	0.6					1.4	0.6			0.4	0.7	1.5
% respiratory, developmental, rehabilitative, and restorative service providers	4.0	9.8					2.7	2.5			1.8	3.6	3.8
% speech, language, and hearing service providers	1.3	1.2					0.8	2.3			1.7	0.9	2.0
% student health care	0.2	0.3					1.0	0.2			0.7	0.4	0.3
% technologists, technicians, and other technical service providers	0.0	0.1					0.0	0.0			0.1	0.1	0.0
% group of individuals with multi- or single specialty	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% nonindividuals	22.1	16.8					10.6	23.5			16.9	12.4	19.3
% agencies	4.0	1.6					1.5	7.1			2.6	1.0	3.4
% ambulatory health care facilities	2.1	2.1					1.0	2.2			1.9	1.8	2.3
% hospital units	0.3	0.1					0.1	0.1			0.2	0.1	0.3
% hospitals	4.1	4.2					1.4	1.6			3.1	0.8	1.7
% laboratories	0.8	0.3					0.2	0.3			0.5	0.8	0.4
% managed care organizations	0.0	0.1					0.1	0.1			0.0	0.0	0.0
% nursing and custodial care facilities	1.8	0.7					1.0	3.5			1.5	0.7	1.5
% residential treatment facilities	0.2	0.4					0.2	1.6			0.3	0.5	0.2
% respite care facility	0.0	0.0					0.0	0.0			0.0	0.0	0.0
% suppliers	7.5	6.9					4.3	6.4			6.1	5.7	7.8
% transportation services	1.3	0.6					0.7	0.5			0.8	0.9	1.7
% nonmedical	0.0	0.0					0.0	0.0			0.0	0.0	0.0

2011 MAX All Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	MT	NE	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA
Provider IDs with Entity Type = Individual													
Number of provider IDs with entity type = individual	14,460	20,902					223,033	75,644			46,010	36,164	75,938
% a sole proprietorship	19.8	27.5					30.5	19.1			25.7	17.6	16.2
% not a sole proprietorship	75.3	67.8					62.2	76.4			69.9	76.3	73.5
% not answered	4.8	4.7					7.3	4.5			4.3	6.1	10.3
Provider IDs with Entity Type = Organization													
Number of provider IDs with entity type = organization	4,329	4,683					38,214	37,953			11,472	6,053	20,586
% organization is a subpart	12.4	18.5					9.4	10.1			13.6	14.1	12.3
% organization is not a subpart	70.5	73.0					69.1	72.5			69.0	71.4	68.2
% not answered	17.1	8.5					21.4	17.4			17.5	14.5	19.6

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

2011 MAX All Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
All Providers												
Number of provider IDs		73,199	24,841	139,182	199,342		19,304	105,385	113,772	53,692	64,079	26,265
% billing provider on IP claim		5.7	0.7	0.6	0.4		0.5	1.3	0.2	0.4	0.7	0.5
% NPI billing provider on IP claim		5.7	0.7	0.7	0.4		0.5	1.3	0.2	0.4	0.7	0.5
% billing provider on LT claim		0.4	0.6	0.4	1.0		0.4	0.4	0.2	0.4	0.6	0.3
% NPI billing provider on LT claim		0.0	0.6	0.4	1.0		0.4	0.4	0.2	0.5	0.6	0.3
% billing provider on OT claim		36.4	37.9	20.8	48.8		21.2	31.9	7.8	10.9	52.9	13.2
% servicing provider on OT claim		61.0	37.1	40.5	53.7		40.9	38.0	30.1	31.1	73.7	48.4
% NPI servicing provider on OT claim		23.2	36.7	14.3	41.5		44.1	38.0	30.0	30.5	39.7	36.6
% billing provider on RX claim		2.9	1.4	5.9	2.3		1.3	1.7	1.2	1.3	2.2	0.8
% prescribing provider on RX claim		31.9	21.2	46.3	28.9		25.0	39.2	54.8	34.5	58.0	12.5
% NPI billing provider on RX claim		35.6	1.2	5.8	2.3		1.3	1.7	1.1	1.5	2.2	20.0
% billing provider		43.5	40.7	26.8	51.6		22.8	32.6	8.5	12.7	53.4	14.2
% NPI billing provider		36.3	2.5	6.5	3.6		2.1	3.1	1.6	2.3	3.5	20.6
% servicing provider		61.0	37.1	40.5	53.7		40.9	38.0	30.1	31.1	73.7	48.4
% NPI servicing provider		23.2	36.7	14.3	41.5		44.1	38.0	30.0	30.5	39.7	36.6
% prescribing provider		31.9	21.2	46.3	28.9		25.0	39.2	54.8	34.5	58.0	12.5
% provider IDs with NPI		63.9	65.3	53.2	49.1		90.8	77.1	61.5	63.5	47.4	80.7
% provider IDs linked to NPPES		46.5	63.6	53.2	48.1		90.7	74.1	61.2	63.5	47.4	80.6
% provider IDs with or without NPI but linked to state provider file		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
average number of claims		819.4	340.4	1,089.3	2109.6		1228.2	811.2	1,085.5	992.6	1473.2	358.9
average number of beneficiaries with claims		140.3	74.9	193.1	308.8		160.6	143.8	152.9	133.8	215.6	53.2
Provider IDs with NPI												
Number of provider IDs with NPI		46,807	16,217	74,035	97,820		17,526	81,250	69,948	34,072	30,348	21,197
% NPI source = MSIS		86.3	92.4	99.5	98.9		97.0	99.6	99.9	94.9	97.3	97.0
% NPI source = NPPES		13.7	7.6	0.5	1.1		3.0	0.4	0.1	5.1	2.7	3.0
% NPI source = state cross-reference file		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Provider IDs Linked to NPPES												
Number of provider IDs linked to NPPES		34,011	15,793	74,028	95,885		17,515	78,061	69,629	34,071	30,348	21,173
% linked via NPI		81.2	92.2	99.5	98.9		97.0	99.6	99.9	94.9	97.3	97.0
% linked via Medicaid legacy provider ID		17.8	7.8	0.0	0.1		2.9	0.4	0.1	5.1	2.7	3.0
% linked via Medicare UPIN		1.1	0.0	0.4	1.0		0.0	0.0	0.0	0.0	0.0	0.0
% with name prefix		44.3	20.2	22.9	33.4		44.9	36.4	30.8	34.2	24.3	35.3
% with first name		92.1	64.5	50.4	72.4		88.7	79.8	83.8	78.3	64.7	90.0
% with middle name		76.2	52.1	40.5	54.4		66.8	61.9	67.2	61.7	52.9	67.0
% with last name		92.1	64.5	50.4	72.4		88.7	79.8	83.8	78.3	64.7	90.0
% with name suffix		6.6	0.9	2.7	2.7		1.8	3.5	1.5	3.1	0.8	1.6
% male		58.0	39.9	30.3	42.9		46.6	47.7	47.7	49.8	31.8	54.8
% female		34.1	24.6	20.1	29.4		42.1	32.1	36.1	28.5	33.0	35.2
% with credential		89.4	62.4	48.6	70.1		85.9	77.0	79.6	74.6	61.4	84.5
% with business name		7.5	35.4	49.4	27.3		11.2	20.0	16.0	21.5	35.0	9.7
% with address line 1		99.6	99.9	99.8	99.7		99.9	99.8	99.8	99.8	99.8	99.7
% with city		99.6	99.9	99.8	99.7		99.9	99.8	99.8	99.8	99.8	99.7
% with state		99.6	99.9	99.8	99.7		99.9	99.8	99.8	99.8	99.8	99.7
% state = claim file state code		59.4	59.2	63.3	93.2		54.8	70.0	80.3	51.7	69.5	34.2
% with zip code		99.6	99.9	99.8	99.7		99.9	99.8	99.8	99.8	99.8	99.7
% with primary taxonomy		98.8	98.5	98.8	98.4		97.3	98.0	98.8	98.6	98.2	98.5
% with provider entity type = individual		92.1	64.5	50.4	72.4		88.7	79.8	83.8	78.3	64.7	90.0
% with provider entity type = organization		7.5	35.4	49.4	27.3		11.2	20.0	16.0	21.5	35.0	9.7

2011 MAX All Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
Provider IDs with or without NPI but linked to state provider file												
Number of provider IDs with or without NPI linked to state provider file		0	0	0	0		0	0	0	0	0	0
Provider IDs with NPPES Primary Taxonomy												
Number of provider IDs with NPPES primary taxonomy		33,595	15,556	73,127	94,356		17,034	76,511	68,783	33,578	29,799	20,864
% individual or group of individuals		96.5	73.1	54.7	74.6		90.7	83.4	88.0	81.4	68.5	92.0
% allopathic and osteopathic physicians		68.8	43.4	27.9	44.3		50.2	55.8	53.8	52.5	23.5	59.4
% behavioral health and social service providers		0.9	3.7	4.4	5.6		13.2	6.8	1.9	1.9	10.8	4.7
% chiropractic providers		0.4	3.4	0.3	0.6		1.5	0.1	0.1	0.9	4.2	0.3
% dental providers		5.9	0.3	3.5	5.2		4.0	3.6	5.5	3.6	4.2	3.7
% dietary and nutritional service providers		0.1	0.1	0.0	0.2		0.5	0.0	0.4	0.0	0.0	0.0
% emergency medical service providers		0.1	0.1	0.0	0.0		0.0	0.0	0.0	0.0	0.1	0.1
% eye and vision service providers		1.7	2.6	1.9	1.8		1.3	2.1	2.4	1.4	2.2	1.5
% nursing service providers		0.2	0.1	0.4	0.2		0.5	0.2	0.3	0.9	0.4	0.7
% nursing service-related providers		0.0	0.0	0.0	0.1		0.0	0.0	0.0	0.1	0.0	0.0
% other service providers		2.7	1.0	2.2	2.2		1.4	2.7	2.1	4.9	0.6	4.6
% pharmacy service providers		1.1	0.1	0.2	0.2		0.1	0.1	0.1	0.2	0.1	0.4
% physician assistants and advanced practice nursing providers		12.1	13.8	10.2	9.4		11.5	9.0	13.4	8.0	10.9	12.4
% podiatric medicine and surgery service providers		0.7	0.5	0.3	0.8		0.4	0.9	0.8	0.6	0.5	0.4
% respiratory, developmental, rehabilitative, and restorative service providers		0.5	2.4	2.1	1.9		3.3	0.9	5.5	2.5	8.3	1.7
% speech, language, and hearing service providers		0.3	1.2	0.9	1.7		1.0	0.5	1.3	3.4	2.2	0.6
% student health care		1.0	0.3	0.2	0.4		1.9	0.5	0.3	0.4	0.3	1.4
% technologists, technicians, and other technical service providers		0.0	0.0	0.0	0.2		0.0	0.0	0.0	0.0	0.0	0.1
% group of individuals with multi- or single specialty		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
% nonindividuals		3.5	26.9	45.3	25.4		9.3	16.6	12.0	18.6	31.5	8.0
% agencies		0.4	3.3	2.2	6.1		0.8	3.3	1.0	2.6	3.3	1.5
% ambulatory health care facilities		0.7	4.1	1.8	2.5		0.7	1.6	2.3	1.7	2.8	1.1
% hospital units		0.1	0.4	0.2	0.1		0.1	0.1	0.1	0.1	0.1	0.1
% hospitals		1.1	5.6	14.6	1.2		1.2	2.7	1.8	2.1	14.8	1.5
% laboratories		0.0	0.7	0.5	0.3		0.4	0.5	0.4	1.1	0.6	0.4
% managed care organizations		0.0	0.0	0.0	0.1		0.0	0.1	0.0	0.0	0.0	0.0
% nursing and custodial care facilities		0.7	3.1	1.3	2.6		0.9	0.5	0.7	1.1	1.8	0.4
% residential treatment facilities		0.1	0.3	0.2	0.2		0.1	0.6	0.1	0.3	0.1	0.1
% respite care facility		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.1
% suppliers		0.3	7.4	23.5	11.3		3.7	6.4	5.0	7.9	6.4	2.1
% transportation services		0.2	2.1	0.9	1.0		1.3	0.9	0.6	1.6	1.5	0.5
% nonmedical		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0

2011 MAX All Provider Characteristics Cross State Validation Table
Last Update: 05/20/2013

Measure	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY
Provider IDs with Entity Type = Individual												
Number of provider IDs with entity type = individual		31,316	10,180	37,342	69,374		15,530	62,295	58,364	26,676	19,647	19,058
% a sole proprietorship		15.9	10.1	19.4	25.0		21.9	15.2	14.5	18.9	12.6	17.4
% not a sole proprietorship		79.5	83.6	73.4	71.2		71.3	78.7	80.7	72.6	77.9	78.4
% not answered		4.6	6.2	7.1	3.8		6.8	6.1	4.7	8.5	9.5	4.3
Provider IDs with Entity Type = Organization												
Number of provider IDs with entity type = organization		2,562	5,592	36,553	26,224		1,961	15,592	11,143	7,325	10,633	2,057
% organization is a subpart		12.0	11.3	32.8	14.7		8.9	10.6	13.9	10.3	13.9	9.7
% organization is not a subpart		70.4	70.9	61.3	68.9		66.3	73.8	71.2	72.4	74.2	71.4
% not answered		17.6	17.8	6.0	16.4		24.8	15.6	14.9	17.3	11.9	18.9

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics File, 2011.
Note: AZ, CA, CO, FL, ID, KS, ME, MA, NE, NH, NJ, NM, ND, OH, RI and UT were not included in MAXPC 2011 because the corresponding MSIS files were unavailable or contained significant data problems at the production cut-off date o f May 15, 2013.

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