

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

**Record Layout and Data Element
Dictionary, 2009**

Final Report

December 30, 2011

Deo Bencio



MATHEMATICA
Policy Research

This page has been left blank for double-sided copying.

Contract Number:
HHSM-500-2005-00025I

Task Number:
HHSM-500-T0002

Mathematica Reference Number:
06759.640

Submitted to:
Centers for Medicare & Medicaid Services
7500 Security Blvd
CSP, Mail Stop C3-19-16
Baltimore, MD 21244-1850
Project Officer: Cara Petroski

Submitted by:
Mathematica Policy Research
1100 1st Street, NE
12th Floor
Washington, DC 20002-4221
Telephone: (202) 484-9220
Facsimile: (202) 863-1763
Project Director: Julie Sykes

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

**Record Layout and Data
Element Dictionary, 2009**

Final Report

December 30, 2011

Deo Bencio

MATHEMATICA
Policy Research

This page has been left blank for double-sided copying.

SPECIAL NOTE TO MAXPC 2009 USERS
12/30/2011

Fourteen states are not included in MAXPC 2009 because their MSIS files were unavailable or contained significant data problems:

1. District of Columbia
2. Hawaii
3. Idaho
4. Michigan
5. Minnesota
6. Nevada
7. New Hampshire
8. New York
9. North Dakota
10. Oklahoma
11. Pennsylvania
12. Utah
13. Washington
14. Wisconsin

This page has been left blank for double-sided copying.

ACRONYMS

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

This page has been left blank for double-sided copying.

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 were 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 in 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 they submit to MSIS. The main limitation of NPIs on claims for Medicaid services 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.

The MAXPC file is built with the basic objective of creating a uniform provider file for each Medicaid provider in MAX, whether the provider is identified using an NPI or a state-defined provider ID (also referred to as legacy provider IDs). MAXPC is built with the following considerations:

- The MAXPC file should supplement or correspond to a set of MAX files.
- Every provider ID in MAX should be in the MAXPC file, including IDs for atypical and nonmedical providers.
- A single, simple methodology should be used to link a provider in the MAX files to a provider in MAXPC.
- The MAXPC file should not replicate any existing database of providers.
- The MAXPC file should be state specific to ensure that legacy provider IDs, which can have the same values across states, link to the appropriate provider in each state.

¹ Centers for Medicare & Medicaid Services. “National Provider Identifier (NPI) Overview.” Available at [<http://www.cms.gov/nationalProvIdentstand/>].

The following table lists the number of unique provider IDs for each state in MAX 2009:

	Number of Unique Provider IDs		Number of Unique Provider IDs
Alabama	64,321	Montana	19,941
Alaska	17,486	Nebraska	37,774
Arizona	78,708	Nevada	
Arkansas	50,371	New Hampshire	
California	1,112,427	New Jersey	80,943
Colorado	52,712	New Mexico	71,062
Connecticut	61,625	New York	
Delaware	11,059	North Carolina	113,214
District of Columbia		North Dakota	
Florida	243,730	Ohio	120,943
Georgia	105,009	Oklahoma	
Hawaii		Oregon	76,387
Idaho		Pennsylvania	
Illinois	243,893	Rhode Island	21,362
Indiana	84,537	South Carolina	64,253
Iowa	78,250	South Dakota	21,205
Kansas	55,716	Tennessee	135,392
Kentucky	62,090	Texas	186,001
Louisiana	55,831	Utah	
Maine	27,051	Vermont	17,545
Maryland	93,884	Virginia	97,526
Massachusetts	169,330	Washington	
Michigan		West Virginia	53,001
Minnesota		Wisconsin	
Mississippi	46,193	Wyoming	23,046
Missouri	101,554		

MAXPC FILE LAYOUT

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER:	ELEMENT NAME:	TYPE:	LENGTH:	BEG:	END:
****	Provider Characteristics Record	REC	471	1	471
1.	Provider Identifier	CHAR	12	1	12
2.	State Code	CHAR	2	13	14
3.	IP Claim NPI Billing Provider	CHAR	1	15	15
4.	IP Claim Legacy Billing Provider	CHAR	1	16	16
5.	LT Claim NPI Billing Provider	CHAR	1	17	17
6.	LT Claim Legacy Billing Provider	CHAR	1	18	18
7.	OT Claim NPI Servicing Provider	CHAR	1	19	19
8.	OT Claim Legacy Billing Provider	CHAR	1	20	20
9.	OT Claim Legacy Servicing Provider	CHAR	1	21	21
10.	RX Claim NPI Billing Provider	CHAR	1	22	22
11.	RX Claim Legacy Billing Provider	CHAR	1	23	23
12.	RX Claim Legacy Prescribing Provider	CHAR	1	24	24
13.	National Provider Identifier (NPI)	CHAR	12	25	36
14.	NPI Source	CHAR	1	37	37
15.	NPPES Type of Provider ID	CHAR	1	38	38
16.	Name Prefix	CHAR	5	39	43
17.	First Name	CHAR	20	44	63
18.	Middle Name	CHAR	20	64	83
19.	Last Name	CHAR	35	84	118
20.	Name Suffix	CHAR	5	119	123
21.	Gender	CHAR	1	124	124
22.	Credential	CHAR	20	125	144
23.	Business Name	CHAR	70	145	214
24.	Business Practice Address Line 1	CHAR	55	215	269
25.	Business Practice Address Line 2	CHAR	55	270	324
26.	Business Practice City	CHAR	40	325	364
27.	Business Practice State	CHAR	2	365	366
28.	Business Practice Zipcode	CHAR	9	367	375
29.	Primary Taxonomy Code	CHAR	10	376	385

DATA ELEMENTS WITH TYPE NUM* ARE IN ZONED DECIMAL (ZD) FORMAT.

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER:	ELEMENT NAME:	TYPE:	LENGTH:	BEG:	END:
30.	Primary Taxonomy Classification	CHAR	2	386	387
31.	Non-Medical Provider	CHAR	1	388	388
32.	Provider Entity Type	CHAR	1	389	389
33.	Sole Proprietor Code	CHAR	1	390	390
34.	Organization Subpart Code	CHAR	1	391	391
35.	Number of IP Claims for Provider	NUM*	8	392	399
36.	Number of Beneficiaries with IP Claims for Provider	NUM*	8	400	407
37.	Number of LT Claims for Provider	NUM*	8	408	415
38.	Number of Beneficiaries with LT Claims for Provider	NUM*	8	416	423
39.	Number of OT Claims for Provider	NUM*	8	424	431
40.	Number of Beneficiaries with OT Claims for Provider	NUM*	8	432	439
41.	Number of RX Claims for Provider	NUM*	8	440	447
42.	Number of Beneficiaries with RX Claims for Provider	NUM*	8	448	455
43.	Number of Any Claims for Provider	NUM*	8	456	463
44.	Number of Beneficiaries with Any Claims for Provider	NUM*	8	464	471

DATA ELEMENTS WITH TYPE NUM* ARE IN ZONED DECIMAL (ZD) FORMAT.

This page has been left blank for double-sided copying.

MAXPC DATA ELEMENT DICTIONARY

MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009) PROVIDER CHARACTERISTICS (MAXPC) RECORD

ELEMENT NUMBER: ****

ELEMENT NAME: **Provider Characteristics Record**

SAS VARIABLE: NONE

TYPE: REC

LENGTH: 471 BEG: 1 END: 471

DESCRIPTION:

A Provider Characteristics Record is constructed for each unique provider identifier (ID) in the four MAX claims files (IP, LT, OT, RX). The MAXPC file contains information for any provider ID found on a claim file using data extracted from the claim and supplemented with data available in the National Plan and Provider Enumeration System file (NPPES) and, when possible, state-provided provider characteristics files.

For MAXPC 2009, the source of the provider ID is each provider ID variable in the MSIS state backup (STBK) claims files. Prior to February 2009, this includes the:

* Legacy billing provider ID in the IP, LT, and RX files * Legacy servicing provider ID in the OT file * Legacy prescribing provider ID in the RX file

After February 2009, these additional provider IDs are also available:

* Billing provider National Provider Identifier (NPI) in the IP, LT, and RX files * Servicing provider NPI in the OT files

If the MAX legacy provider ID can be found in the state's MSIS claims, and the MSIS claim contains the corresponding NPI for the legacy provider ID, the NPI is moved to the Provider Characteristics Record NPI field and the NPI source is set to indicate that the NPI was obtained from the MSIS file.

If the NPI is not found using the most current MSIS claims files for the state, the second step is to link to a cross-reference file constructed from the NPPES file. The NPPES file contains the master list of NPIs but it also contains up to 50 alternate provider IDs and an indicator to denote the assigning agency or system for the number. If the MAX legacy provider ID is located in the NPPES based cross-reference file among either the Medicaid IDs or the Medicare UPINs, the NPPES NPI is moved to the Provider Characteristics Record NPI field and the NPI source is set to indicate that the NPI was obtained from the NPPES.

If the NPI is still unknown, a third attempt to determine the NPI is made by linking to a state-provided cross-reference file of state-specific legacy provider IDs and NPIs. If the MAX legacy provider ID is located in the state-supplied cross-reference file, the state-supplied corresponding NPI is moved to the Provider Characteristics Record NPI field and the NPI source is set to indicate that the NPI was obtained from the state-supplied cross-reference file. Note that for MAXPC 2009, state-provided cross-reference files were only available for three states: Florida, Indiana, and North Carolina.

With NPI now available, the NPPES file is read again, using NPI as the key, to complete the other fields in the MAXPC record. If no linkage is made to NPPES, then a state-provided provider characteristics file will provide the missing information, when possible. If we are unable to link the provider ID to NPPES or the state-provided provider characteristics file, the provider characteristics variables in MAXPC will be filled with either spaces or zeroes, depending on the variable's definition.

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 1.

ELEMENT NAME: **Provider Identifier**

SAS VARIABLE: PRVDR_ID

TYPE: CHAR

LENGTH: 12 BEG: 1 END: 12

DESCRIPTION:

The unique provider identifier originally used in at least one of the provider variables in at least one of the MAX IP, LT, OT, RX claims for the state and year.

Source: Every provider ID variable in the MSIS state backup (STBK) file, which includes: * Legacy billing providers in IP, LT, and RX files, * Legacy servicing providers in OT files, * Legacy prescribing providers in RX files, * Billing provider NPIs in the IP, LT, RX files, * Servicing provider NPIs in the OT files.

Source: MSIS state backup (STBK) claim, any of the provider ID variables

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 2.

ELEMENT NAME: **State Code**

SAS VARIABLE: STATE_CD

TYPE: CHAR

LENGTH: 2 BEG: 13 END: 14

DESCRIPTION:

State code

Codes:

AL = Alabama

AK = Alaska

AZ = Arizona

AR = Arkansas

AS = American Samoa

CA = California

CO = Colorado

CT = Connecticut

DE = Delaware

DC = District of Columbia

FL = Florida

GA = Georgia

GU = Guam

HI = Hawaii

ID = Idaho

IL = Illinois

IN = Indiana

IA = Iowa

KS = Kansas

KY = Kentucky

LA = Louisiana

ME = Maine

MD = Maryland

MA = Massachusetts

MI = Michigan

MN = Minnesota

MS = Mississippi

MO = Missouri

MT = Montana

NE = Nebraska

NV = Nevada

NH = New Hampshire

NJ = New Jersey

NM = New Mexico

NY = New York

NC = North Carolina

ND = North Dakota

OH = Ohio

OK = Oklahoma

OR = Oregon

PA = Pennsylvania

PR = Puerto Rico

RI = Rhode Island

SC = South Carolina

SD = South Dakota

TN = Tennessee

TX = Texas

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

UT = Utah
VT = Vermont
VI = Virgin Islands
VA = Virginia
WA = Washington
WV = West Virginia
WI = Wisconsin
WY = Wyoming

Source: MSIS state backup (STBK) claim, state code

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 3.

ELEMENT NAME: **IP Claim NPI Billing Provider**

SAS VARIABLE: IP_NPI_BILLING_PRVDR

TYPE: CHAR

LENGTH: 1 BEG: 15 END: 15

DESCRIPTION:

Provider ID in data element 1 originates from an IP billing provider NPI

Codes:

0 = No

1 = Yes

Source: MSIS state backup (STBK) IP claim, billing provider NPI

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 4.

ELEMENT NAME: **IP Claim Legacy Billing Provider**

SAS VARIABLE: IP_LEGACY_BILLING_PRVDR

TYPE: CHAR

LENGTH: 1 BEG: 16 END: 16

DESCRIPTION:

Provider ID in data element 1 originates from an IP legacy billing provider ID

Codes:

0 = No

1 = Yes

Source: MSIS state backup (STBK) IP claim, legacy billing provider ID

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 5.

ELEMENT NAME: **LT Claim NPI Billing Provider**

SAS VARIABLE: LT_NPI_BILLING_PRVDR

TYPE: CHAR

LENGTH: 1 BEG: 17 END: 17

DESCRIPTION:

Provider ID in data element 1 originates from an LT billing provider NPI

Codes:

0 = No

1 = Yes

Source: MSIS state backup (STBK) LT claim, billing provider NPI

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 6.

ELEMENT NAME: **LT Claim Legacy Billing Provider**

SAS VARIABLE: LT_LEGACY_BILLING_PRVDR

TYPE: CHAR

LENGTH: 1 BEG: 18 END: 18

DESCRIPTION:

Provider ID in data element 1 originates from an LT legacy billing provider ID

Codes:

0 = No

1 = Yes

Source: MSIS state backup (STBK) LT claim, legacy billing provider ID

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 7.

ELEMENT NAME: **OT Claim NPI Servicing Provider**

SAS VARIABLE: OT_NPI_SERVICING_PRVDR

TYPE: CHAR

LENGTH: 1 BEG: 19 END: 19

DESCRIPTION:

Provider ID in data element 1 originates from an OT servicing provider NPI

Codes:

0 = No

1 = Yes

Source: MSIS state backup (STBK) OT claim, servicing provider NPI

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 8.

ELEMENT NAME: **OT Claim Legacy Billing Provider**

SAS VARIABLE: OT_LEGACY_BILLING_PRVDR

TYPE: CHAR

LENGTH: 1 BEG: 20 END: 20

DESCRIPTION:

Provider ID in data element 1 originates from an OT legacy billing provider ID

Codes:

0 = No

1 = Yes

Source: MSIS state backup (STBK) OT claim, legacy billing provider ID

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 9.

ELEMENT NAME: **OT Claim Legacy Servicing Provider**

SAS VARIABLE: OT_LEGACY_SERVICING_PRVDR

TYPE: CHAR

LENGTH: 1 BEG: 21 END: 21

DESCRIPTION:

Provider ID in data element 1 originates from an OT legacy servicing provider ID

Codes:

0 = No

1 = Yes

Source: MSIS state backup (STBK) OT claim, legacy servicing provider ID

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 10.

ELEMENT NAME: **RX Claim NPI Billing Provider**

SAS VARIABLE: RX_NPI_BILLING_PRVDR

TYPE: CHAR

LENGTH: 1 BEG: 22 END: 22

DESCRIPTION:

Provider ID in data element 1 originates from an RX billing provider NPI

Codes:

0 = No

1 = Yes

Source: MSIS state backup (STBK) RX claim, billing provider NPI

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 11.

ELEMENT NAME: **RX Claim Legacy Billing Provider**

SAS VARIABLE: RX_LEGACY_BILLING_PRVDR

TYPE: CHAR

LENGTH: 1 BEG: 23 END: 23

DESCRIPTION:

Provider ID in data element 1 originates from an RX legacy billing provider ID

Codes:

0 = No

1 = Yes

Source: MSIS state backup (STBK) RX claim, legacy billing provider ID

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 12.

ELEMENT NAME: **RX Claim Legacy Prescribing Provider**

SAS VARIABLE: RX_LEGACY_PRESCRIBING_PRVDR

TYPE: CHAR LENGTH: 1 BEG: 24 END: 24

DESCRIPTION:

Provider ID in data element 1 originates from an RX legacy prescribing provider ID

Codes:

0 = No

1 = Yes

Source: MSIS state backup (STBK) RX claim, legacy prescribing provider ID

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 13.

ELEMENT NAME: **National Provider Identifier (NPI)**

SAS VARIABLE: NPI

TYPE: CHAR

LENGTH: 12 BEG: 25 END: 36

DESCRIPTION:

National provider identifier (NPI)

Source: Three possible sources:

* MSIS claim (Feb 2009 onward)* NPPES* State-provided cross-reference file

Note: The NPI is usually 10 characters but the MSIS NPI is defined as 12 characters.

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 14.

ELEMENT NAME: **NPI Source**

SAS VARIABLE: NPI_SOURCE

TYPE: CHAR

LENGTH: 1 BEG: 37 END: 37

DESCRIPTION:

NPI Source

Codes:

0 = No NPI

1 = MSIS

2 = NPPES

3 = State cross-reference file

Source: MAXPC system

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 15.

ELEMENT NAME: **NPPES Type of Provider ID**

SAS VARIABLE: NPPES_PRVDR_ID_TYPE

TYPE: CHAR

LENGTH: 1 BEG: 38 END: 38

DESCRIPTION:

NPPES Type of Provider ID

Codes:

0 = Not linked to NPPES

1 = NPI

2 = Medicaid legacy provider ID

3 = Medicare UPIN

4 = Not linked to NPPES / Linked to State Provider File

Source: MAXPC System

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 16.

ELEMENT NAME: **Name Prefix**

SAS VARIABLE: NAME_PREFIX

TYPE: CHAR

LENGTH: 5 BEG: 39 END: 43

DESCRIPTION:

Prefix of provider's name

Source: NPPES or state-provided provider characteristics file

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 17.

ELEMENT NAME: **First Name**

SAS VARIABLE: FIRST_NAME

TYPE: CHAR LENGTH: 20 BEG: 44 END: 63

DESCRIPTION:

Provider's first name

Source: NPPES or state-provided provider characteristics file

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 18.

ELEMENT NAME: **Middle Name**

SAS VARIABLE: MIDDLE_NAME

TYPE: CHAR

LENGTH: 20 BEG: 64 END: 83

DESCRIPTION:

Provider's middle name

Source: NPPES or state-provided provider characteristics file

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 19.

ELEMENT NAME: **Last Name**

SAS VARIABLE: LAST_NAME

TYPE: CHAR

LENGTH: 35 BEG: 84 END: 118

DESCRIPTION:

Provider's last name

Source: NPPES or state-provided provider characteristics file

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 20.

ELEMENT NAME: **Name Suffix**

SAS VARIABLE: NAME_SUFFIX

TYPE: CHAR

LENGTH: 5 BEG: 119 END: 123

DESCRIPTION:

Suffix of provider's name

Source: NPPES or state-provided provider characteristics file

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 21.

ELEMENT NAME: **Gender**

SAS VARIABLE: GENDER

TYPE: CHAR

LENGTH: 1 BEG: 124 END: 124

DESCRIPTION:

Provider's Gender

Codes:space = Not linked to NPPES

F = Female

M = Male

Source: NPPES or state-provided provider characteristics file

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 22.

ELEMENT NAME: **Credential**

SAS VARIABLE: CREDENTIAL

TYPE: CHAR

LENGTH: 20 BEG: 125 END: 144

DESCRIPTION:

Provider's credential

Source: NPPES or state-provided provider characteristics file

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 23.

ELEMENT NAME: **Business Name**

SAS VARIABLE: BUSINESS_NAME

TYPE: CHAR

LENGTH: 70 BEG: 145 END: 214

DESCRIPTION:

Provider's business name

Source: NPPES or state-provided provider characteristics file

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 24.

ELEMENT NAME: **Business Practice Address Line 1**

SAS VARIABLE: BUSINESS_ADDRESS_1

TYPE: CHAR

LENGTH: 55 BEG: 215 END: 269

DESCRIPTION:

Provider's business practice address (line 1)

Source: NPPES or state-provided provider characteristics file

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 25.

ELEMENT NAME: **Business Practice Address Line 2**

SAS VARIABLE: BUSINESS_ADDRESS_2

TYPE: CHAR

LENGTH: 55 BEG: 270 END: 324

DESCRIPTION:

Provider's business practice address (line 2)

Source: NPPES or state-provided provider characteristics file

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 26.

ELEMENT NAME: **Business Practice City**

SAS VARIABLE: BUSINESS_CITY

TYPE: CHAR

LENGTH: 40 BEG: 325 END: 364

DESCRIPTION:

Provider's business practice city

Source: NPPES or state-provided provider characteristics file

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 27.

ELEMENT NAME: **Business Practice State**

SAS VARIABLE: BUSINESS_STATE

TYPE: CHAR

LENGTH: 2 BEG: 365 END: 366

DESCRIPTION:

Provider's business practice state code

Codes:

AL = Alabama

AK = Alaska

AZ = Arizona

AR = Arkansas

AS = American Samoa

CA = California

CO = Colorado

CT = Connecticut

DE = Delaware

DC = District of Columbia

FL = Florida

GA = Georgia

GU = Guam

HI = Hawaii

ID = Idaho

IL = Illinois

IN = Indiana

IA = Iowa

KS = Kansas

KY = Kentucky

LA = Louisiana

ME = Maine

MD = Maryland

MA = Massachusetts

MI = Michigan

MN = Minnesota

MS = Mississippi

MO = Missouri

MT = Montana

NE = Nebraska

NV = Nevada

NH = New Hampshire

NJ = New Jersey

NM = New Mexico

NY = New York

NC = North Carolina

ND = North Dakota

OH = Ohio

OK = Oklahoma

OR = Oregon

PA = Pennsylvania

PR = Puerto Rico

RI = Rhode Island

SC = South Carolina

SD = South Dakota

TN = Tennessee

TX = Texas

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

UT = Utah
VT = Vermont
VI = Virgin Islands
VA = Virginia
WA = Washington
WV = West Virginia
WI = Wisconsin
WY = Wyoming

Source: NPPES or state-provided provider characteristics file

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 28.

ELEMENT NAME: **Business Practice Zipcode**

SAS VARIABLE: BUSINESS_ZIP_CD

TYPE: CHAR

LENGTH: 9 BEG: 367 END: 375

DESCRIPTION:

Provider's business practice zipcode

Source: NPPES or state-provided provider characteristics file

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 29.

ELEMENT NAME: **Primary Taxonomy Code**

SAS VARIABLE: PRIMARY_TAXONOMY_CD

TYPE: CHAR

LENGTH: 10 BEG: 376 END: 385

DESCRIPTION:

Primary taxonomy code

Codes: See www.wpc-edi.com/codes/taxonomy for possible values

Source: NPPES or state-provided provider characteristics file

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 30.

ELEMENT NAME: **Primary Taxonomy Classification**

SAS VARIABLE: PRIMARY_TAXONOMY_CLASS

TYPE: CHAR

LENGTH: 2 BEG: 386 END: 387

DESCRIPTION:

Primary taxonomy classification

Codes:

00 = Not linked to NPPES Individual or Group of Individuals

01 = Allopathic & Osteopathic Physicians

02 = Behavioral Health & Social Service Providers

03 = Chiropractic Providers

04 = Dental Providers

05 = Dietary & Nutritional Service Providers

06 = Emergency Medical Service Providers

07 = Eye and Vision Services Providers

08 = Nursing Service Providers

09 = Nursing Service Related Providers

10 = Other Service Providers

11 = Pharmacy Service Providers

12 = Physician Assistants & Advanced Practice Nursing Providers

13 = Podiatric Medicine & Surgery Service Providers

14 = Respiratory, Developmental, Rehabilitative and Restorative Service Providers

15 = Speech, Language and Hearing Service Providers

16 = Student, Health Care

17 = Technologists, Technicians & Other Technical Service Providers Non-Individuals

18 = Agencies

19 = Ambulatory Health Care Facilities

20 = Hospital Units

21 = Hospitals

22 = Laboratories

23 = Managed Care Organizations

24 = Nursing & Custodial Care Facilities

25 = Residential Treatment Facilities

26 = Respite Care Facility

27 = Suppliers

28 = Transportation Services

Source: NPPES or state-provided provider characteristics file

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 31.

ELEMENT NAME: **Non-Medical Provider**

SAS VARIABLE: NON_MEDICAL_PRVDR

TYPE: CHAR

LENGTH: 1 BEG: 388 END: 388

DESCRIPTION:

Non-medical provider

Codes:

0 = Not linked to NPPES

1 = Non-medical (atypical) provider

2 = Medical provider

Source: MAXPC System

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 32.

ELEMENT NAME: **Provider Entity Type**

SAS VARIABLE: PRVDR_ENTITY_TYPE

TYPE: CHAR

LENGTH: 1 BEG: 389 END: 389

DESCRIPTION:

Provider entity type

Codes:

0 = Not linked to NPPES

1 = Individual

2 = Organization

Source: NPPES or state-provided provider characteristics file

**MEDICAID ANALYTIC EXTRACT DATA ELEMENT DICTIONARY (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 33.

ELEMENT NAME: **Sole Proprietor Code**

SAS VARIABLE: SOLE_PROPRIETOR_CD

TYPE: CHAR

LENGTH: 1 BEG: 390 END: 390

DESCRIPTION: Sole proprietor code

Codes:

0 = Not linked to NPPES

Y = Sole proprietorship

N = Not a sole proprietorship

X = Not answered

Source: NPPES or state-provided provider characteristics file

**MEDICAID ANALYTIC EXTRACT DATA ELEMENT DICTIONARY (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 34.

ELEMENT NAME: **Organization Subpart Code**

SAS VARIABLE: SUBPART_CD

TYPE: CHAR

LENGTH: 1 BEG: 391 END: 391

DESCRIPTION: Organization subpart code

Codes:

0 = Not linked to NPPES

Y = Organization is a subpart

N = Organization is not a subpart

X = Not answered

Source: NPPES or state-provided provider characteristics file

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 38.

ELEMENT NAME: **Number of Beneficiaries with LT Claims for Provider**

SAS VARIABLE: LTCLNTS

TYPE: NUM*

LENGTH: 8 BEG: 416 END: 423

DESCRIPTION:

Number of unique beneficiaries of LT claims in which provider ID appears either as a billing or servicing provider

* 8 digits signed (SAS USERS: Zoned Decimal - ZD8)

Source: MSIS state backup (STBK) LT Claims file

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 40.

ELEMENT NAME: **Number of Beneficiaries with OT Claims for Provider**

SAS VARIABLE: OTCLNTS

TYPE: NUM*

LENGTH: 8 BEG: 432 END: 439

DESCRIPTION:

Number of unique beneficiaries of OT claims in which provider ID appears either as a billing or servicing provider

* 8 digits signed (SAS USERS: Zoned Decimal - ZD8)

Source: MSIS state backup (STBK) OT Claims file

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 41.

ELEMENT NAME: **Number of RX Claims for Provider**

SAS VARIABLE: RXCLMS

TYPE: NUM*

LENGTH: 8 BEG: 440 END: 447

DESCRIPTION:

Number of RX claims in which provider ID appears either as a billing, servicing, or prescribing provider

* 8 digits signed (SAS USERS: Zoned Decimal - ZD8)

Source: MSIS state backup (STBK) RX Claims file

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 42.

ELEMENT NAME: **Number of Beneficiaries with RX Claims for Provider**

SAS VARIABLE: RXCLNTS

TYPE: NUM*

LENGTH: 8 BEG: 448 END: 455

DESCRIPTION:

Number of unique beneficiaries of RX claims in which provider ID appears either as a billing, servicing, or prescribing provider

* 8 digits signed (SAS USERS: Zoned Decimal - ZD8)

Source: MSIS state backup (STBK) RX Claims file

**MEDICAID ANALYTIC EXTRACT RECORD LAYOUT (2009)
PROVIDER CHARACTERISTICS (MAXPC) RECORD**

ELEMENT NUMBER: 44.

ELEMENT NAME: **Number of Beneficiaries with Any Claims for Provider**

SAS VARIABLE: CLIENTS

TYPE: NUM*

LENGTH: 8 BEG: 464 END: 471

DESCRIPTION:

Number of unique beneficiaries of any claims in which provider ID appears either as a billing, servicing, or prescribing provider

* 8 digits signed (SAS USERS: Zoned Decimal - ZD8)

Source: MSIS state backup (STBK) Claims file

This page has been left blank for double-sided copying.

MATHEMATICA **Policy Research**

www.mathematica-mpr.com

Improving public well-being by conducting high-quality, objective research and surveys

Princeton, NJ ■ Ann Arbor, MI ■ Cambridge, MA ■ Chicago, IL ■ Oakland, CA ■ Washington, DC

Mathematica® is a registered trademark of Mathematica Policy Research