Merative™ MarketScan® Research Databases
2023 Laboratory Results Database, v1.0

Data Dictionary

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The file should be cited as follows:

Merative™ MarketScan® Lab Database

Format of Data Dictionary

Each standard field that may be found in MarketScan data is defined on the following pages. Seven columns of information are present for each field.

Name

The short (2 to 8 character) name of the variable.

Long Name

Long name, or label of the variable. For example, the variable containing information about the type of provider who rendered the service is labeled "Provider Type."

Description

A definition of the data in the variable.

Data Types/Formats

CHAR: Character
NUM: Integer Numeric
FLT: Decimal Numeric (CSV only)
DATE: Date

Valid Contents

The meaning of each valid term in the field. For example, the standard values for SEX (Gender of Patient) are 1 and 2, with 1 meaning male and 2 meaning female.

Some variables have longer lists of standard values. For those, a separate attachment (which follows the alphabetical listing) has been created.

Notes

Information about the source of the data in the variable. The Note often relates to analytical uses of the data.

Tables

An abbreviation that indicates in which table the variable is found:
R: Laboratory Results

Laboratory Test Results Database
Variable Summary

Name	Long Name	SAS Format	Tables
Clinical Variables			
DX1	Diagnosis 1	CHAR(7)	R
DXVER	Diagnosis Code ICD Version Indicator	CHAR(1)	R
MDC	Major Diagnostic Category	CHAR(2)	R
PROC1	Procedure Code 1	CHAR(7)	R
PROCTYP	Procedure Code Type	CHAR(1)	R
Demographic Variables			
AGE	Age of Patient	NUM(3)	R
AGEGRP	Age Group	CHAR(1)	R
DATATYP	Data Type	NUM(3)	R
DOBYR	Patient Birth Year	NUM(3)	R
EECLASS	Employee Classification	CHAR(1)	R
EESTATU	Employment Status	CHAR(1)	R
INDSTRY	Industry	CHAR(1)	R
PLANTYP	Plan Indicator	NUM(3)	R
SEX	Gender of Patient	CHAR(1)	R
Geographic Variables			
EGEOLOC	Geographic Location Employee	CHAR(2)	R
MSA	Metropolitan Statistical Area	NUM(4)	R
REGION	Region	CHAR(1)	R
Lab Result Variables			
ABNORMAL	Lab Abnormal Flag	CHAR(1)	R
LOINCCD	LOINC Code	CHAR(7)	R
ORDERID	Lab Test Order ID	NUM(6)	R
REFHIGH	Lab Result High Range	NUM(6)	R
REFLOW	Lab Result Low Range	NUM(6)	R

Laboratory Test Results Database
Variable Summary

Name	Long Name	SAS Format	Tables
RESLTCAT	Lab Result Category Code	CHAR(3)	R
RESULT	Lab Result Numeric Value	NUM(6)	R
RESUNIT	Lab Result Units	CHAR(30)	R
TESTCNT	Lab Test Count	NUM(3)	R
Patient Variables			
EFAMID	Enrolled Family ID	NUM(6)	R
EIDFLAG	Enrollee ID Derivation Flag	CHAR(1)	R
EMPREL	Relation to Employee	CHAR(1)	R
ENRFLAG	Enrollment Flag	CHAR(1)	R
ENROLID	Enrollee ID	NUM(6)	R
HLTHPLAN	Health Plan Indicator	CHAR(1)	R
MEDADV	Medicare Advantage Flag	NUM(8)	R
MHSACOVG	Coverage Indicator MHSA	CHAR(1)	R
Provider Variables			
PHYFLAG	Physician Specialty Coding Flag	CHAR(1)	R
PROVID	Provider ID	NUM(6)	R
STDPLAC	Place of Service	NUM(3)	R
STDPROV	Provider Type	NUM(3)	R
Time Variables			
PDDATE	Date Claim Paid	NUM(4)	R
SVCDATE	Date Service Incurred	NUM(4)	R
YEAR	Date Year Incurred	NUM(3)	R
Other Variables			
RX	Cohort Drug Indicator	CHAR(1)	R
SEQNUM	Sequence Number	NUM(6)	R
VERSION	Version	CHAR(2)	R

Laboratory Test Results Database
Data Dictionary

Name	Long Name	Description	SAS Format	Valid Contents	Notes	Tables
ABNORMAL	Lab Abnormal Flag	Abnormal lab result value	CHAR(1)	A: Abnormal H: High L: Low N: Normal	As defined and coded by the lab test provider	R
AGE	Age of Patient	Patient age in years at the time of service	NUM(3)	Each character = 0-9	A table: calculated using DTSTART from the first enrollment detail (T) record of the year. I table: calculated using ADMDATE. D, F, O, S, R tables: calculated using SVCDATE. T table: calculated using DTSTART. Beginning in the 2016 data year: Age 0-6 - actual age as of the Date of Service/Enrollment Start Date/Admission Date. Age 7-16 - age as of the 15th of the month of the Date of Service/Enrollment Start Date/Admission Date. Age 17+ - age as of the July 1 of the year of the Date of Service/Enrollment Start Date/Admission Date. Starting with the 2023v1.0 release, AGE will be capped at 100 years. Patient ages > 100 will be reported as 100.	R
AGEGRP	Age Group	A value identifying the patient or members age group	CHAR(1)	1: 0-17 2: 18-34 3: 35-44 4: 45-54 5: 55-64 6: 65 and older	Age group or cohort of patient on admissions (I), services (S), outpatient services (O), prescription drug claims (D), and lab results (R); of covered life on populations (P); the mode of monthly AGEGRP for a member on Annual Enrollment Summary (A); of member as of the start of the enrollment period on Enrollment Detail (T)	R
DATATYP	Data Type	A value identifying whether the claim or eligible population is fee-for-service, encounter, Medicare, or Medicare encounter. This field was new in 1998 and was developed to identify claims formerly found in the Private Pay Fee-For-Service, Encounter, and Medicare databases.	NUM(3)	1: Fee for Service 2: Encounter 3: Medicare 4: Medicare Encounter	Prior to 1998, Data Types 1 and 2 were not merged. Data Type 4 was not available prior to 1998.	R

Laboratory Test Results Database
Data Dictionary

Name	Long Name	Description	SAS Format	Valid Contents	Notes	Tables
DOBYR	Patient Birth Year	Year of patient birth	NUM(3)	CCYY	Calculated on the claims tables from the date of service and the patient age. Derived on the enrollment table from the date of birth recorded on the enrollment record. Starting with the 2023v1.0 release, DOBYR will be limited to 100 years prior to the MarketScan year. See comments for AGE variable for more information.	R
DX1	Diagnosis 1	The diagnosis code as coded on the claim	CHAR(7)	See "Clinical Fields" in the MarketScan Database User's Guide.	Starting with the 2023v1.0 release, diagnosis codes for public events have been redacted or recoded. Refer to the MarketScan Database User's Guide for information on the specific codes impacted.	R
DXVER	Diagnosis Code ICD Version Indicator	A code denoting which coding system is relevant to the value found in the DX1 field on the record	CHAR(1)	0: ICD-10-CM 9: ICD-9-CM	New in 2015	R
EECLASS	Employee Classification	The employment classification of the primary beneficiary also coded on spouse and dependent claims	CHAR(1)	1: Salary Non-union 2: Salary Union 3: Salary Other 4: Hourly Non-union 5: Hourly Union 6: Hourly Other 7: Non-union 8: Union 9: Unknown	Mapped from carrier specific coding to Merative standard values.	R
EESTATU	Employment Status	Employment status of the primary beneficiary, also coded on spouse and dependent claims	CHAR(1)	1: Active Full Time 2: Active Part Time or Seasonal 3: Early Retiree 4: Medicare Eligible Retiree 5: Retiree (status unknown) 6: COBRA Continuee 7: Long Term Disability 8: Surviving Spouse/Depend. 9: Other/Unknown	Mapped from carrier specific coding to Merative standard values	R
EFAMID	Enrolled Family ID	A unique one to nine digit number identifying each family group in the data file	NUM(6)	Each character = 0-9	New in 2011	R
EGEOLOC	Geographic Location Employee	Geographic location (state, division, region) of primary beneficiary's residence	CHAR(2)	See Attachment A - EGEOLOC	Population supported Mapped from employee ZIP Code	R

Laboratory Test Results Database
Data Dictionary

Name	Long Name	Description	SAS Format	Valid Contents	Notes	Tables
EIDFLAG	Enrollee ID Derivation Flag	Describes the quality of ENROLID assignment	CHAR(1)	1: ENRFLAG=1; ENROLID from enrollment 2: ENRFLAG=1; ENROLID from claims 3: ENRFLAG=1; ENROLID missing 4: ENRFLAG=0; ENROLID from claims 5: ENRGLAG=0; ENROLID missing 6: ENRFLAG=0; "pseudo" ENROLID	See Section 4. Person Level Identifiers in the MarketScan CCAE MDCR User's Guide.	R
EMPREL	Relation to Employee	Relationship of the patient to the primary beneficiary	CHAR(1)	1: Employee 2: Spouse 3: Child/Other 4: Dependent-Relation Unknown	Mapped from carrier specific coding to Merative standard values	R
ENRFLAG	Enrollment Flag	A flag that indicates that person-level enrollment information is available for a data contributor	CHAR(1)	0: No person-level enrollment information available from this data contributor. 1: Person-level enrollment information is available from this data contributor.	See "The Enrollment Tables" in the MarketScan CCAE MDCR User's Guide.	R
ENROLID	Enrollee ID	A unique three to eleven digit number identifying each enrollee in the data file	NUM(6)	Each character = 0-9	See Section 4. Person Level Identifiers in the MarketScan Database User's Guide.	R
HLTHPLAN	Health Plan Indicator	An indicator as to whether the data supplier of a record was a large US employer or a Health Plan	CHAR(1)	0: Employer 1: Health Plan	New in 2004	R

Laboratory Test Results Database
Data Dictionary

Name	Long Name	Description	SAS Format	Valid Contents	Notes	Tables
INDSTRY	Industry	Industry classification of the employer responsible for payment of claim	CHAR(1)	1: Oil & Gas Extraction, Mining 2: Manufacturing, Durable Goods 3: Manufacturing, Nondurable Goods 4: Transportation, Communications, Utilities 5: Retail Trade 6: Finance, Insurance, Real Estate 7: Services A: Agriculture, Forestry, Fishing C: Construction W: Wholesale O: Other	–	R
LOINCCD	LOINC Code	Logical Observation Identifiers Names and Codes; laboratory test identifier	CHAR(7)	–	See http://loinc.org/ for code reference	R
MDC	Major Diagnostic Category	Body-system or disease related groupings of clinical conditions, based on diagnosis codes	CHAR(2)	See Attachment B - MDC	Assigned by Merative using DRG Grouper v41.0	R
MEDADV	Medicare Advantage Flag	A flag to indicate whether or not the enrollee is enrolled in a Medicare Advantage plan	NUM(8)	0: Not Medicare Advantage 1: Medicare Advantage	New in 2020	R
MHSACOVG	Coverage Indicator MHSA	Identifies whether or not mental health/substance abuse claims for covered individuals are included for the current year of data	CHAR(1)	0: Not Covered/Claims Not Present 1: Covered/Possible MHSA Claims	New in 2004. Added retrospectively to 2002 and 2003 data. Missing values of this variable in 2002 and 2003 data are equivalent to a value of 1.	R
MSA	Metropolitan Statistical Area	Metropolitan Statistical Area of primary beneficiary	NUM(4)	See Attachment C - MSA	Mapped from 5 digit employee ZIP Code. Starting with the 2023v1.0 release, MSA values for families with > 8 members will not be reported.	R
ORDERID	Lab Test Order ID	Unique identifier for each lab test order	NUM(6)	Each character = 0-9	–	R
PDDATE	Date Claim Paid	The year, month, and day on which the claim was paid by the carrier/administrator	NUM(4)	–	On prescription drug records, the paid date is usually a batch date and is defaulted to the date the data are extracted.	R

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Data Dictionary

Name	Long Name	Description	SAS Format	Valid Contents	Notes	Tables
PHYFLAG	Physician Specialty Coding Flag	A flag that identifies claims from data contributors with highly-differentiated physician specialist coding on claims.	CHAR(1)	0: Fewer than 70% of Outpatient physician records have the physician's specialty indicated. 1: 70% or more of the Outpatient physician records have the physician's specialty indicated.	-	R
PLANTYP	Plan Indicator	Type of benefit plan	NUM(3)	1: Basic/major medical 2: Comprehensive 3: EPO 4: HMO 5: POS 6: PPO 7: POS with capitation 8: CDHP 9: HDHP	Mapped from client specific coding to Merative standard values. See "Plan Type Definition" in the MarketScan CCAE MDCR User's Guide.	R
PROC1	Procedure 1	The procedure code as coded on claim	CHAR(7)	See "Clinical Fields" in the MarketScan Database User's Guide.	-	R
PROCTYP	Procedure Code Type	The type of procedure coding used by the carrier/administrator in the PROC1 (Procedure1) field	CHAR(1)	*: ICD-9-CM 0: ICD-10-CM 1: CPT 3: UB92 Revenue Code 6: NABSP 7: HCPC 8: CDT (ADA)	-	R
PROVID	Provider ID	Identifier for provider of service used by the carrier Encrypted as of 2001 data	NUM(6)	Each character = 0-9	-	R
REFHIGH	Lab Result High Range	A number with the reference high range. Missing if the result is categorical.	NUM(6)	Each character = 0-9	As coded on the record	R
REFLOW	Lab Result Low Range	A number with the reference low range. Missing if the result is categorical.	NUM(6)	Each character = 0-9	As coded on the record	R
REGION	Region	Geographic Region of employee residence	CHAR(1)	1: Northeast 2: North Central 3: South 4: West 5: Unknown	-	R

Laboratory Test Results Database
Data Dictionary

Name	Long Name	Description	SAS Format	Valid Contents	Notes	Tables
RESLTCAT	Lab Result Category Code	Categorical result, where applicable	CHAR(3)	See Attachment D - RESLTCAT	-	R
RESULT	Lab Result Numeric Value	Numeric result	NUM(6)	Each character = 0-9	-	R
RESUNIT	Lab Result Units	-	CHAR(30)	-	-	R
RX	Cohort Drug Indicator	Identifies whether or not Merative captures drug claims for an enrolled individual's plan group	CHAR(1)	0: No drug benefit identified 1: Identifies drug benefit	See "Tables" in the MarketScan CCAE MDCR User's Guide.	R
SEQNUM	Sequence Number	A code indicating a unique identifier for every record on a table	NUM(6)	Each character = 0-9	Normal values for a full dataset are 1 through the number of records (e.g. a table with 2,000,000 records will have SEQNUM values 1 to 2000000). For custom datasets, this range may vary.	R
SEX	Gender of Patient	Gender of the patient on admissions, services, outpatient claims and prescription drug claims; of covered life on populations	CHAR(1)	1: Male 2: Female	As coded on claim	R
STDPLAC	Place of Service	Setting where service occurred	NUM(3)	See Attachment E - STDPLAC	Mapped from carrier specific coding to Merative standard values	R

STDPROV	Provider Type	001-099 Facility
		100-799 Physician
		  100-199 Non-admitting Physicians
		  200-499 Admitting Physicians
		  500-599 Surgeons
		800-899 Professionals (Non-Physician)
		900-999 Agencies
			NUM(3)	See Attachment F - STDPROV	Mapped from carrier specific coding to Merative standard values	R

SVCDATE	Date Service Incurred	Date of inpatient or outpatient service or date prescription was filled	NUM(4)	mmddyy10.	Represents the "from" date if service was provided over more than one day	R
TESTCNT	Lab Test Count	-	NUM(3)	-	-	R
VERSION	Version	A Merative internal database version number	CHAR(2)	Each character = 0-9	-	R
YEAR	Date Year Incurred	The calendar year during which the service was rendered, the admission began or the population was eligible	NUM(3)	CCYY	-	R

Attachment A - EGEOLOC

Value	Label
01	Nation, unknown region
02	Northeast Region, unknown division
03	New England Division, unknown state
04	Connecticut
05	Maine
06	Massachusetts
07	New Hampshire
08	Rhode Island
09	Vermont
10	Middle Atlantic Division, unknown state
11	New Jersey
12	New York
13	Pennsylvania
14	North Central Region, unknown division
15	East North Central Division, unknown state
16	Illinois
17	Indiana
18	Michigan
19	Ohio
20	Wisconsin
21	West North Central Division, unknown state
22	Iowa
23	Kansas
24	Minnesota
25	Missouri
26	Nebraska
27	North Dakota
28	South Dakota
29	South Region, unknown division
30	South Atlantic Division, unknown state
31	Washington, DC
32	Delaware

Attachment A - EGEOLOC

Value	Label
33	Florida
34	Georgia
35	Maryland
36	North Carolina
37	South Carolina
38	Virginia
39	West Virginia
40	East South Central Division, unknown state
41	Alabama
42	Kentucky
43	Mississippi
44	Tennessee
45	West South Central Division, unknown state
46	Arkansas
47	Louisiana
48	Oklahoma
49	Texas
50	West Region, unknown division
51	Mountain Division, unknown state
52	Arizona
53	Colorado
54	Idaho
55	Montana
56	Nevada
57	New Mexico
58	Utah
59	Wyoming
60	Pacific Division, unknown state
61	Alaska
62	California
63	Hawaii
64	Oregon

Attachment A - EGEOLOC

Value	Label
65	Washington
97	Puerto Rico

Attachment B – MDC

Value	Label
00	Missing/Invalid Diagnosis
01	Nervous
02	Eye
03	Ear, Nose, Mouth & Throat
04	Respiratory
05	Circulatory
06	Digestive
07	Liver, Pancreas
08	Musculoskeletal
09	Skin, Breast
10	Metabolic
11	Kidney
12	Male Reproductive
13	Female Reproductive
14	Pregnancy, Childbirth
15	Newborns
16	Blood
17	Myeloproliferative Diseases
18	Infections
19	Mental
20	Alcohol/Drug Use
21	Injuries, Poisonings
22	Burns
23	Health Status
24	Multiple Trauma
25	HIV Infections

Attachment C - MSA

Value	Label
0	Non-MSA
10180	Abilene, TX
10380	Aguadilla-Isabela, PR
10420	Akron, OH
10500	Albany, GA
10540	Albany, OR
10580	Albany-Schenectady-Troy, NY
10740	Albuquerque, NM
10780	Alexandria, LA
10900	Allentown-Bethlehem-Easton, PA-NJ
11020	Altoona, PA
11100	Amarillo, TX
11180	Ames, IA
11244	Anaheim-Santa Ana-Irvine, CA
11260	Anchorage, AK
11460	Ann Arbor, MI
11500	Anniston-Oxford-Jacksonville, AL
11540	Appleton, WI
11640	Arecibo, PR
11700	Asheville, NC
12020	Athens-Clarke County, GA
12060	Atlanta-Sandy Springs-Roswell, GA
12100	Atlantic City-Hammonton, NJ
12220	Auburn-Opelika, AL
12260	Augusta-Richmond County, GA-SC
12420	Austin-Round Rock, TX
12540	Bakersfield, CA
12580	Baltimore-Columbia-Towson, MD

Attachment C - MSA

Value	Label
12620	Bangor, ME
12700	Barnstable Town, MA
12940	Baton Rouge, LA
12980	Battle Creek, MI
13020	Bay City, MI
13140	Beaumont-Port Arthur, TX
13220	Beckley, WV
13380	Bellingham, WA
13460	Bend-Redmond, OR
13740	Billings, MT
13780	Binghamton, NY
13820	Birmingham-Hoover, AL
13900	Bismarck, ND
13980	Blacksburg-Christiansburg-Radford, VA
14010	Bloomington, IL
14020	Bloomington, IN
14100	Bloomsburg-Berwick, PA
14260	Boise City, ID
14454	Boston, MA
14500	Boulder, CO
14540	Bowling Green, KY
14740	Bremerton-Silverdale, WA
14860	Bridgeport-Stamford-Norwalk, CT
15180	Brownsville-Harlingen, TX
15260	Brunswick, GA
15380	Buffalo-Cheektowaga-Niagara Falls, NY
15500	Burlington, NC
15540	Burlington-South Burlington, VT

Attachment C - MSA

Value	Label
15680	California-Lexington Park, MD
15764	Cambridge-Newton-Framingham, MA
15804	Camden, NJ
15940	Canton-Massillon, OH
15980	Cape Coral-Fort Myers, FL
16020	Cape Girardeau, MO-IL
16060	Carbondale-Marion, IL
16180	Carson City, NV
16220	Casper, WY
16300	Cedar Rapids, IA
16540	Chambersburg-Waynesboro, PA
16580	Champaign-Urbana, IL
16620	Charleston, WV
16700	Charleston-North Charleston, SC
16740	Charlotte-Concord-Gastonia, NC-SC
16820	Charlottesville, VA
16860	Chattanooga, TN-GA
16940	Cheyenne, WY
16974	Chicago-Naperville-Arlington Heights, IL (no longer in use starting with 2022v1.0)
16984	Chicago-Naperville-Evanston, IL
17020	Chico, CA
17140	Cincinnati, OH-KY-IN
17300	Clarksville, TN-KY
17420	Cleveland, TN
17460	Cleveland-Elyria, OH
17660	Coeur dAlene, ID
17780	College Station-Bryan, TX
17820	Colorado Springs, CO

Attachment C - MSA

Value	Label
17860	Columbia, MO
17900	Columbia, SC
17980	Columbus, GA-AL
18020	Columbus, IN
18140	Columbus, OH
18580	Corpus Christi, TX
18700	Corvallis, OR
18880	Crestview-Fort Walton Beach-Destin, FL
19060	Cumberland, MD-WV
19124	Dallas-Plano-Irving, TX
19140	Dalton, GA
19180	Danville, IL
19300	Daphne-Fairhope-Foley, AL
19340	Davenport-Moline-Rock Island, IA-IL
19380	Dayton, OH (no longer in use starting with 2022v1.0)
19430	Dayton-Kettering, OH
19460	Decatur, AL
19500	Decatur, IL
19660	Deltona-Daytona Beach-Ormond Beach, FL
19740	Denver-Aurora-Lakewood, CO
19780	Des Moines-West Des Moines, IA
19804	Detroit-Dearborn-Livonia, MI
20020	Dothan, AL
20100	Dover, DE
20220	Dubuque, IA
20260	Duluth, MN-WI
20500	Durham-Chapel Hill, NC
20524	Dutchess County-Putnam County, NY (no longer in use starting with 2022v1.0)

Attachment C – MSA

Value	Label
20700	East Stroudsburg, PA
20740	Eau Claire, WI
20940	El Centro, CA
20994	Elgin, IL
21060	Elizabethtown-Fort Knox, KY
21140	Elkhart-Goshen, IN
21300	Elmira, NY
21340	El Paso, TX
21420	Enid, OK
21500	Erie, PA
21660	Eugene, OR
21780	Evansville, IN-KY
21820	Fairbanks, AK
22020	Fargo, ND-MN
22140	Farmington, NM
22180	Fayetteville, NC
22220	Fayetteville-Springdale-Rogers, AR-MO
22380	Flagstaff, AZ
22420	Flint, MI
22500	Florence, SC
22520	Florence-Muscle Shoals, AL
22540	Fond du Lac, WI
22660	Fort Collins, CO
22744	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL
22900	Fort Smith, AR-OK
23060	Fort Wayne, IN
23104	Fort Worth-Arlington, TX
23224	Frederick-Gaithersburg-Rockville, MD

Attachment C – MSA

Value	Label
23420	Fresno, CA
23460	Gadsden, AL
23540	Gainesville, FL
23580	Gainesville, GA
23844	Gary, IN
23900	Gettysburg, PA
24020	Glens Falls, NY
24140	Goldsboro, NC
24220	Grand Forks, ND-MN
24260	Grand Island, NE
24300	Grand Junction, CO
24340	Grand Rapids-Wyoming, MI
24420	Grants Pass, OR
24500	Great Falls, MT
24540	Greeley, CO
24580	Green Bay, WI
24660	Greensboro-High Point, NC
24780	Greenville, NC
24860	Greenville-Anderson-Mauldin, SC
25020	Guayama, PR
25060	Gulfport-Biloxi-Pascagoula, MS
25180	Hagerstown-Martinsburg, MD-WV
25220	Hammond, LA
25260	Hanford-Corcoran, CA
25420	Harrisburg-Carlisle, PA
25500	Harrisonburg, VA
25540	Hartford-West Hartford-East Hartford, CT
25620	Hattiesburg, MS

Attachment C - MSA

Value	Label
25860	Hickory–Lenoir–Morganton, NC
25940	Hilton Head Island–Bluffton–Beaufort, SC
25980	Hinesville, GA
26140	Homosassa Springs, FL
26300	Hot Springs, AR
26380	Houma–Thibodaux, LA
26420	Houston–The Woodlands–Sugar Land, TX
26580	Huntington–Ashland, WV–KY–OH
26620	Huntsville, AL
26820	Idaho Falls, ID
26900	Indianapolis–Carmel–Anderson, IN
26980	Iowa City, IA
27060	Ithaca, NY
27100	Jackson, MI
27140	Jackson, MS
27180	Jackson, TN
27260	Jacksonville, FL
27340	Jacksonville, NC
27500	Janesville–Beloit, WI
27620	Jefferson City, MO
27740	Johnson City, TN
27780	Johnstown, PA
27860	Jonesboro, AR
27900	Joplin, MO
27980	Kahului–Wailuku–Lahaina, HI
28020	Kalamazoo–Portage, MI
28100	Kankakee, IL
28140	Kansas City, MO–KS

Attachment C – MSA

Value	Label
28420	Kennewick–Richland, WA
28660	Killeen–Temple, TX
28700	Kingsport–Bristol–Bristol, TN–VA
28740	Kingston, NY
28940	Knoxville, TN
29020	Kokomo, IN
29100	La Crosse–Onalaska, WI–MN
29180	Lafayette, LA
29200	Lafayette–West Lafayette, IN
29340	Lake Charles, LA
29404	Lake County–Kenosha County, IL–WI
29420	Lake Havasu City–Kingman, AZ
29460	Lakeland–Winter Haven, FL
29540	Lancaster, PA
29620	Lansing–East Lansing, MI
29700	Laredo, TX
29740	Las Cruces, NM
29820	Las Vegas–Henderson–Paradise, NV
29940	Lawrence, KS
30020	Lawton, OK
30140	Lebanon, PA
30300	Lewiston, ID–WA
30340	Lewiston–Auburn, ME
30460	Lexington–Fayette, KY
30620	Lima, OH
30700	Lincoln, NE
30780	Little Rock–North Little Rock–Conway, AR
30860	Logan, UT–ID

Attachment C - MSA

Value	Label
30980	Longview, TX
31020	Longview, WA
31084	Los Angeles-Long Beach-Glendale, CA
31140	Louisville/Jefferson County, KY-IN
31180	Lubbock, TX
31340	Lynchburg, VA
31420	Macon-Bibb County, GA
31460	Madera, CA
31540	Madison, WI
31700	Manchester-Nashua, NH
31740	Manhattan, KS
31860	Mankato-North Mankato, MN
31900	Mansfield, OH
32420	Mayaguez, PR
32580	McAllen-Edinburg-Mission, TX
32780	Medford, OR
32820	Memphis, TN-MS-AR
32900	Merced, CA
33124	Miami-Miami Beach-Kendall, FL
33140	Michigan City-La Porte, IN
33220	Midland, MI
33260	Midland, TX
33340	Milwaukee-Waukesha-West Allis, WI
33460	Minneapolis-St. Paul-Bloomington, MN-WI
33540	Missoula, MT
33660	Mobile, AL
33700	Modesto, CA
33740	Monroe, LA

Attachment C - MSA

Value	Label
33780	Monroe, MI
33860	Montgomery, AL
33874	Montgomery County-Bucks County-Chester County, PA
34060	Morgantown, WV
34100	Morristown, TN
34580	Mount Vernon-Anacortes, WA
34620	Muncie, IN
34740	Muskegon, MI
34820	Myrtle Beach-Conway-North Myrtle Beach, SC-NC
34900	Napa, CA
34940	Naples-Immokalee-Marco Island, FL
34980	Nashville-Davidson--Murfreesboro--Franklin, TN
35004	Nassau County-Suffolk County, NY
35084	Newark, NJ-PA
35100	New Bern, NC
35154	New Brunswick-Lakewood, NJ
35300	New Haven-Milford, CT
35380	New Orleans-Metairie, LA
35614	New York-Jersey City-White Plains, NY-NJ
35660	Niles-Benton Harbor, MI
35840	North Port-Sarasota-Bradenton, FL
35980	Norwich-New London, CT
36084	Oakland-Hayward-Berkeley, CA
36100	Ocala, FL
36140	Ocean City, NJ
36220	Odessa, TX
36260	Ogden-Clearfield, UT
36420	Oklahoma City, OK

Attachment C – MSA

Value	Label
36500	Olympia-Tumwater, WA
36540	Omaha-Council Bluffs, NE-IA
36740	Orlando-Kissimmee-Sanford, FL
36780	Oshkosh-Neenah, WI
36980	Owensboro, KY
37100	Oxnard-Thousand Oaks-Ventura, CA
37340	Palm Bay-Melbourne-Titusville, FL
37460	Panama City, FL
37620	Parkersburg-Vienna, WV
37860	Pensacola-Ferry Pass-Brent, FL
37900	Peoria, IL
37964	Philadelphia, PA
38060	Phoenix-Mesa-Scottsdale, AZ
38220	Pine Bluff, AR
38300	Pittsburgh, PA
38340	Pittsfield, MA
38540	Pocatello, ID
38660	Ponce, PR
38860	Portland-South Portland, ME
38900	Portland-Vancouver-Hillsboro, OR-WA
38940	Port St. Lucie, FL
39100	Poughkeepsie-Newburgh-Middletown, NY
39140	Prescott, AZ (no longer in use starting with 2022v1.0)
39150	Prescott Valley-Prescott, AZ
39300	Providence-Warwick, RI-MA
39340	Provo-Orem, UT
39380	Pueblo, CO
39460	Punta Gorda, FL

Attachment C - MSA

Value	Label
39540	Racine, WI
39580	Raleigh, NC
39660	Rapid City, SD
39740	Reading, PA
39820	Redding, CA
39900	Reno, NV
40060	Richmond, VA
40140	Riverside-San Bernardino-Ontario, CA
40220	Roanoke, VA
40340	Rochester, MN
40380	Rochester, NY
40420	Rockford, IL
40484	Rockingham County-Strafford County, NH
40580	Rocky Mount, NC
40660	Rome, GA
40900	Sacramento--Roseville--Arden-Arcade, CA
40980	Saginaw, MI
41060	St. Cloud, MN
41100	St. George, UT
41140	St. Joseph, MO-KS
41180	St. Louis, MO-IL
41420	Salem, OR
41500	Salinas, CA
41540	Salisbury, MD-DE
41620	Salt Lake City, UT
41660	San Angelo, TX
41700	San Antonio-New Braunfels, TX
41740	San Diego-Carlsbad, CA

Attachment C - MSA

Value	Label
41884	San Francisco-Redwood City-South San Francisco, CA
41900	San German, PR
41940	San Jose-Sunnyvale-Santa Clara, CA
41980	San Juan-Carolina-Caguas, PR
42020	San Luis Obispo-Paso Robles-Arroyo Grande, CA
42034	San Rafael, CA
42100	Santa Cruz-Watsonville, CA
42140	Santa Fe, NM
42200	Santa Maria-Santa Barbara, CA
42220	Santa Rosa, CA
42340	Savannah, GA
42540	Scranton--Wilkes-Barre--Hazleton, PA
42644	Seattle-Bellevue-Everett, WA
42680	Sebastian-Vero Beach, FL
42700	Sebring, FL
43100	Sheboygan, WI
43300	Sherman-Denison, TX
43340	Shreveport-Bossier City, LA
43420	Sierra Vista-Douglas, AZ
43524	Silver Spring-Frederick-Rockville, MD (no longer in use starting with 2022v1.0)
43580	Sioux City, IA-NE-SD
43620	Sioux Falls, SD
43780	South Bend-Mishawaka, IN-MI
43900	Spartanburg, SC
44060	Spokane-Spokane Valley, WA
44100	Springfield, IL
44140	Springfield, MA
44180	Springfield, MO

Attachment C - MSA

Value	Label
44220	Springfield, OH
44300	State College, PA
44420	Staunton-Waynesboro, VA
44700	Stockton-Lodi, CA
44940	Sumter, SC
45060	Syracuse, NY
45104	Tacoma-Lakewood, WA
45220	Tallahassee, FL
45300	Tampa-St. Petersburg-Clearwater, FL
45460	Terre Haute, IN
45500	Texarkana, TX-AR
45540	The Villages, FL
45780	Toledo, OH
45820	Topeka, KS
45940	Trenton, NJ
46060	Tucson, AZ
46140	Tulsa, OK
46220	Tuscaloosa, AL
46300	Twin Falls, ID
46340	Tyler, TX
46520	Urban Honolulu, HI
46540	Utica-Rome, NY
46660	Valdosta, GA
46700	Vallejo-Fairfield, CA
47020	Victoria, TX
47220	Vineland-Bridgeton, NJ
47260	Virginia Beach-Norfolk-Newport News, VA-NC
47300	Visalia-Porterville, CA

Attachment C – MSA

Value	Label
47380	Waco, TX
47460	Walla Walla, WA
47580	Warner Robins, GA
47664	Warren-Troy-Farmington Hills, MI
47894	Washington-Arlington-Alexandria, DC-VA-MD-WV
47940	Waterloo-Cedar Falls, IA
48060	Watertown-Fort Drum, NY
48140	Wausau, WI
48260	Weirton-Steubenville, WV-OH
48300	Wenatchee, WA
48424	West Palm Beach-Boca Raton-Delray Beach, FL
48540	Wheeling, WV-OH
48620	Wichita, KS
48660	Wichita Falls, TX
48700	Williamsport, PA
48864	Wilmington, DE-MD-NJ
48900	Wilmington, NC
49020	Winchester, VA-WV
49180	Winston-Salem, NC

Attachment D – RESLTCAT

Value	Label
ABN	Abnormal
ABS	Absent
ADQ	Adequate
AMB	Amber
BLD	Blood
BLK	Black
BLU	Blue
BRN	Brown
CLD	Cloudy
CLR	Clear
DEC	Decreased
DET	Detected
DNR	DNR
EQI	Equivocal
FEW	Few
FIN	Final
FIR	Final Report
GRN	Green
HAZ	Hazy
HIG	High
INC	Increased
IND	Indeterminate
LES	Less
LOW	Low
LRG	Large
LSL	LSL
MIC	Micro
MIX	Mixed

Attachment D – RESLTCAT

Value	Label
MNY	Many
MOD	Moderate
NA	Not Applicable
NEG	Negative
NIL	Nil
NO	No
NOC	Not Calculated
NOE	None
NOG	No Growth
NON	Not Detected
NOR	Non Reactive
NOS	None Seen
NRM	Normal
NTG	Not Given
NTI	Not Indicated
NTO	Not Observed
ORA	Orange
OTH	Other
PER	Performed
POS	Positive
PRS	Present
PTR	PTRA
RAR	Rare
REA	Reactive
RED	Red
RNL	RNIL
SML	Small
SPR	SPRCS

Attachment D – RESLTCAT

Value	Label
TAN	Tan
TNP	TNP
TRA	Trace
TUR	Turbid
UPT	UPTCAL
URI	Urine
VAG	Vaginal
VOI	Void
WHI	White
YEL	Yellow
YES	Yes

Attachment E – STDPLAC

Value	Label
1	Pharmacy
2	Telehealth
3	School
4	Homeless Shelter
5	Indian Hlth Svc Free-stand Fac (no longer reported starting 2011v1.0)
6	Indian Hlth Svc Prov-based Fac (no longer reported starting 2011v1.0)
7	Tribal 638 Free-standing Fac (no longer reported starting 2011v1.0)
8	Tribal 638 Provider-based Fac (no longer reported starting 2011v1.0)
9	Prison-Correctional Facility (no longer reported starting 2011v1.0)
10	Telehealth Provided in Pat Hm
11	Office
12	Patient Home
13	Assisted Living Facility
14	Group Home
15	Mobile Unit
16	Temporary Lodging
17	Walk-in Retail Health Clinic
18	Place of Employment-Worksite
19	Outpatient Hospital-Off Campus
20	Urgent Care Facility
21	Inpatient Hospital
22	Outpatient Hospital-On Campus
23	Emergency Room - Hospital
24	Ambulatory Surgical Center
25	Birthing Center
26	Military Treatment Facility (no longer reported starting 2023v1.0)
27	Outreach Site/Street (Effective October 1, 2023); Inpatient Long-Term Care (NEC) (Claims incurred 2008 and prior)
28	Other Inpatient Care (NEC)

Attachment E – STDPLAC

Value	Label
31	Skilled Nursing Facility
32	Nursing Facility
33	Custodial Care Facility
34	Hospice
35	Adult Living Care Facility
41	Ambulance (land)
42	Ambulance (air or water)
49	Independent Clinic
50	Federally Qualified Health Ctr
51	Inpatient Psychiatric Facility
52	Psych Facility Partial Hosp
53	Community Mental Health Center
54	Intermed Care/Intellect Disab
55	Residential Subst Abuse Facil
56	Psych Residential Treatmnt Ctr
57	Non-resident Subst Abuse Facil
60	Mass Immunization Center
61	Comprehensive Inpt Rehab Fac
62	Comprehensive Outpt Rehab Fac
65	End-Stage Renal Disease Facil
71	State/Local Public Health Clin
72	Rural Health Clinic
81	Independent Laboratory
95	Outpatient (NEC)
98	Pharmacy
99	Other/Unknown

Attachment F - STDPROV

Value	Label
1	Acute Care Hospital
5	Ambulatory Surgery Centers
6	Urgent Care Facility
10	Birthing Center
15	Treatment Center
20	Mental Health/Chemical Dep NEC
21	Mental Health Facilities
22	Chemical Depend Treatment Ctr
23	Mental Hlth/Chem Dep Day Care
25	Rehabilitation Facilities
30	Longterm Care (NEC)
31	Extended Care Facility
32	Geriatric Hospital
33	Convalescent Care Facility
34	Intermediate Care Facility
35	Residential Treatment Center
36	Continuing Care Retirement Com
37	Day/Night Care Center
38	Hospice Facility
40	Other Facility (NEC)
41	Infirmary
42	Special Care Facility (NEC)
100	Dentist - MD & DDS (NEC)
105	Dental Specialist
120	Chiropractor/DCM
130	Podiatry
140	Pain Mgmt/Pain Medicine
145	Pediatric Anesthesiology

Attachment F - STDPROV

Value	Label
150	Anesthesiology
160	Nuclear Medicine
170	Pathology
175	Pediatric Pathology
180	Radiology
185	Pediatric Radiology
200	Medical Doctor - MD (NEC)
202	Osteopathic Medicine
204	Internal Medicine (NEC)
206	MultiSpecialty Physician Group
208	Proctology
210	Urology
215	Dermatology
220	Emergency Medicine
225	Hospitalist
227	Palliative Medicine
230	Allergy & Immunology
240	Family Practice
245	Geriatric Medicine
250	Cardiovascular Dis/Cardiology
260	Neurology
265	Critical Care Medicine
270	Endocrinology & Metabolism
275	Gastroenterology
280	Hematology
285	Infectious Disease
290	Nephrology
295	Pulmonary Disease

Attachment F - STDPROV

Value	Label
300	Rheumatology
320	Obstetrics & Gynecology
325	Genetics
330	Ophthalmology
340	Otolaryngology
350	Physical Medicine & Rehab
355	Plastic/Maxillofacial Surgery
360	Preventative Medicine
365	Psychiatry
380	Oncology
400	Pediatrician (NEC)
410	Pediatric Specialist (NEC)
413	Pediatric Nephrology
415	Pediatric Ophthalmology
418	Pediatric Orthopaedics
420	Pediatric Otolaryngology
423	Pediatric Critical Care Med
425	Pediatric Pulmonology
428	Pediatric Emergency Medicine
430	Pediatric Allergy & Immunology
433	Pediatric Endocrinology
435	Neonatal-Perinatal Medicine
438	Pediatric Gastroenterology
440	Pediatric Cardiology
443	Pediatric Hematology-Oncology
448	Pediatric Infectious Diseases
450	Pediatric Rheumatology
453	Sports Medicine (Pediatrics)

Attachment F - STDPROV

Value	Label
455	Pediatric Urology
458	Child Psychiatry
460	Pediatric Medical Toxicology
500	Surgeon (NEC)
505	Surgical Specialist (NEC)
510	Colon & Rectal Surgery
520	Neurological Surgery
530	Orthopaedic Surgery
535	Abdominal Surgery
540	Cardiovascular Surgery
545	Dermatologic Surgery
550	General Vascular Surgery
555	Head and Neck Surgery
560	Pediatric Surgery
565	Surgical Critical Care
570	Transplant Surgery
575	Traumatic Surgery
580	Cardiothoracic Surgery
585	Thoracic Surgery
805	Dental Technician
810	Dietitian
815	Medical Technician
820	Midwife
822	Nursing Services
824	Psychiatric Nurse
825	Nurse Practitioner
827	Nurse Anesthetist
830	Optometrist

Attachment F – STDPROV

Value	Label
835	Optician
840	Pharmacist
845	Physician Assistant
850	Therapy (Physical)
853	Therapists (Supportive)
855	Therapists (Alternative)
857	Renal Dialysis Therapy
860	Psychologist
865	Acupuncturist
870	Spiritual Healers
900	Health Educator/Agency
905	Transportation
910	Health Resort
915	Hearing Labs
920	Home Health Organiz/Agency
925	Imaging Center
930	Laboratory
935	Pharmacy
940	Supply Center
945	Vision Center
950	Public Health Agency
955	Unknown Clinic
960	Case Manager

Appendix – CSV Schema

Table	Column Number	Name	Long Name	CSV Data Type	Example Values
R	1	**SEQNUM**	Sequence Number	NUM(11)	Each character = 0–9
R	2	**VERSION**	Version	CHAR(2)	Each character = 0–9
R	3	**ENROLID**	Enrollee ID	NUM(11)	Each character = 0–9
R	4	**DATATYP**	Data Type	NUM(1)	1, 2, 3, 4
R	5	**EFAMID**	Enrolled Family ID	NUM(9)	Each character = 0–9
R	6	**DOBYR**	Patient Birth Year	NUM(4)	1965, 1984, 2005
R	7	**YEAR**	Date Year Incurred	NUM(4)	1999, 2015, 2021
R	8	**ABNORMAL**	Lab Abnormal Flag	CHAR(1)	A, H, L, N
R	9	**AGE**	Age of Patient	NUM(3)	18, 52, 65
R	10	**DX1**	Diagnosis 1	CHAR(7)	E119, Z01419, M069
R	11	**DXVER**	Diagnosis Code ICD Version Indicator	CHAR(1)	0, 9
R	12	**LOINCCD**	LOINC Code	CHAR(7)	2028-9, 31039-1, 1558-6
R	13	**MHSACOVG**	Coverage Indicator MHSA	CHAR(1)	0, 1
R	14	**ORDERID**	Lab Test Order ID	NUM(12)	Each character = 0–9
R	15	**PDDATE**	Date Claim Paid	DATE(10)	01/06/1999, 05/04/2018, 10/12/2020
R	16	**PLANTYP**	Plan Indicator	NUM(1)	1, 2, 3, 4, 5, 6, 7, 8, 9
R	17	**PROC1**	Procedure Code 1	CHAR(7)	80061, 81000, 85014
R	18	**PROCTYP**	Procedure Code Type	CHAR(1)	*, 0, 1, 3, 6, 7, 8
R	19	**PROVID**	Provider ID	NUM(9)	Each character = 0–9
R	20	**REFHIGH**	Lab Result High Range	FLT(20.6)	0, 10.8, 8.299999, 129
R	21	**REFLOW**	Lab Result Low Range	FLT(20.6)	0, 10.8, 8.299999, 129
R	22	**RESLTCAT**	Lab Result Category Code	CHAR(3)	NEG, POS, RAR
R	23	**RESULT**	Lab Result Numeric Value	FLT(20.6)	0, 10.8, 8.299999, 129
R	24	**RESUNIT**	Lab Result Units	CHAR(30)	G/DL, FL, UNK
R	25	**SVCDATE**	Date Service Incurred	DATE(10)	04/04/1999, 11/3/2020, 07/11/2021
R	26	**TESTCNT**	Lab Test Count	NUM(4)	1
R	27	**MDC**	Major Diagnostic Category	CHAR(2)	02, 11, 23
R	28	**REGION**	Region	CHAR(1)	1, 2, 3, 4, 5
R	29	**MSA**	Metropolitan Statistical Area	NUM(5)	0, 15190, 29404
R	30	**STDPLAC**	Place of Service	NUM(2)	1, 11, 81, 99
R	31	**STDPROV**	Provider Type	NUM(3)	1, 204, 930
R	32	**AGEGRP**	Age Group	CHAR(1)	1, 2, 3, 4, 5, 6
R	33	**EECLASS**	Employee Classification	CHAR(1)	1, 2, 3, 4, 5, 6, 7, 8, 9
R	34	**EESTATU**	Employment Status	CHAR(1)	1, 2, 3, 4, 5, 6, 7, 8, 9
R	35	**EGEOLOC**	Geographic Location Employee	CHAR(2)	01, 32, 64
R	36	**EIDFLAG**	Enrollee ID Derivation Flag	CHAR(1)	1, 2, 3, 4 , 5, 6

Appendix – CSV Schema

Table	Column Number	Name	Long Name	CSV Data Type	Example Values
R	37	**EMPREL**	Relation to Employee	CHAR(1)	1, 2, 3, 4
R	38	**ENRFLAG**	Enrollment Flag	CHAR(1)	0, 1
R	39	**PHYFLAG**	Physician Specialty Coding Flag	CHAR(1)	0, 1
R	40	**RX**	Cohort Drug Indicator	CHAR(1)	0, 1
R	41	**SEX**	Gender of Patient	CHAR(1)	1, 2
R	42	**HLTHPLAN**	Health Plan Indicator	CHAR(1)	0, 1
R	43	**INDSTRY**	Industry	CHAR(1)	1, 2, 3, 4, 5, 6, 7, O
R	44	**MEDADV**	Medicare Advantage Flag	NUM(1)	0, 1

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Produced in the United States of America
December 2024

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