# **MX** Analyze

# 2.1 Upgrade FAQ's

April 2021





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#### **Risk Classes**

The primary change reflected within MX Analyze is the addition of Risk Classes to simplify the categorization of risk across a population or for an individual.

## 1. Why did Manifest MedEx make this change?

To provide a simplified approach to categorizing risk.

## 2. Did the probabilistic risk scores go away?

No, the probabilistic risk scores remain. They are visible in the patient/member list when hovering over the risk class icon so that the list can be sorted numerically in any risk column. In addition, the probabilistic risk score is displayed in the Individual Profile on the Future Risk table and Risk Trend graph.

# 3. How were the Risk Classes developed?

A standard approach was developed based on relative risk to define standard Risk Class categories across all risk models. A standard approach was used to segment the patients into the new Risk Classes of Low, Moderate, High, and Very High.

Relative risk is calculated based on the risk bin rate compared to the overall population rate. Using inpatient admission Risk Classes as an example, if the Very High Risk Class has an inpatient admission rate of 60% and the overall population rate is 10%, the relative risk is 6 (60% / 10%); or  $6 \times 10\%$  times the rate of the population rate.

The Risk Classes use the following relative risk ranges:

- Low Risk = relative risk < 1</li>
- Moderate Risk = relative risk between 1 − 3
- High Risk = relative risk between 3 5
- Very High Risk = relative risk > 5

The following table is an illustrative example of the Risk Classes with the respective rates and calculations.

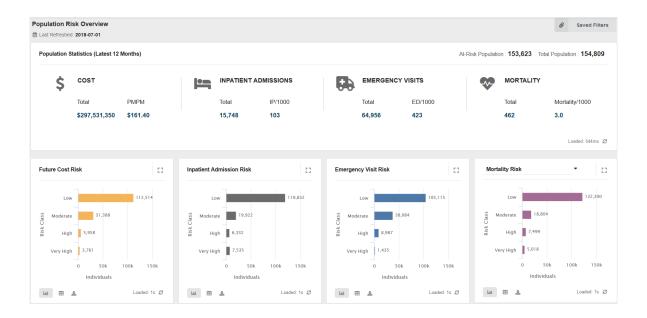
Risk Class:	Low	Moderate	High	Very High	Total Population
Relative Risk:	<1	1-3	3-5	>5	
Population	80,000	10,000	7,500	2,500	100,000
Population %	80.0	10.0	7.5	2.5	100.0
True Positives	3,500	2,000	3,000	1,500	10,000
Positive Predictive Value (PPV) %	4.4	20.0	40.0	60.0	10
Sensitivity %	35.0	20.0	30.0	15.0	100
Relative Risk	0.4	2.0	4.0	6.0	1.0

# 4. How does this change how Risk within a population is visualized?

The population is stratified based on 4 levels of risk – Low (average or less than average risk), plus 3 levels of elevated risk, aligned with increasing relative risk as described above: Moderate, High, and Very High.

## 5. How are these changes reflected in the MX Analyze Dashboard?

The new Risk Classes are represented in the images below. The bar graphs provide a visual image of the risk distribution within the population. In addition, the number of individuals falling into each risk class is displayed at the end of the bar.



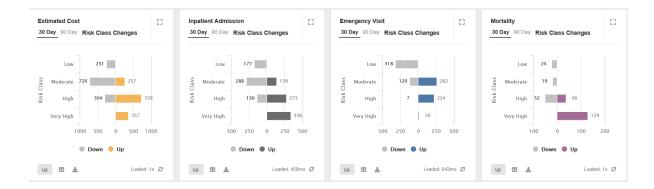
Selecting the Table View for Future Cost Risk, changes the visual representation in this way, providing both the population size and percentage within a table format.



The next row of the dashboard looks at changes in Risk Class in both the last 30 days and last 90 days (controlled by clicking on the day range preferred).

• The color-coded bars to the right represent the number of individuals in the population who experienced an increase in risk class over the last 30 (or 90) days.

• The grey bars to the left represent the number who experienced a decrease in risk class over the selected time period.



# 6. What other changes will we see in MX Analyze related to the addition of Risk Class?

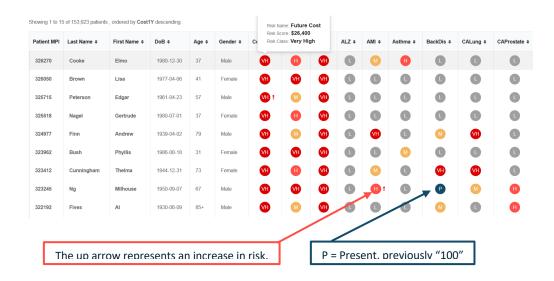
- a. Both the Population Risk filters and the Risk Change filters have been modified to reflect the new risk classes of Low, Moderate, High, and Very High. The Population Risk filters maintain the slider bar format.
  - Move the left slider to the right, for example to Moderate to filter on Moderate –
     Very High Risk, or to Very High for just Very High Risk.
  - Move the left slider and the right slider to narrow down to a single Risk Class of Moderate or High.



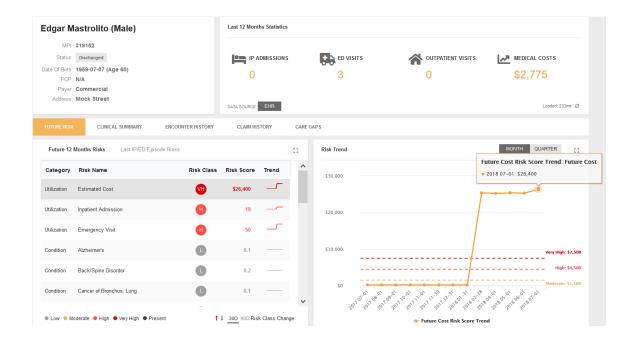
b. For Change in Risk, the filters are now represented in a check-box format. Select one or more boxes to filter on an increase or decrease in risk for utilization, an event, or condition.

	Risk Change Period (Require	d)					
oution	30 Days	•	The Risk Change Period defaults to 30 days, or 90 days				
graphic	may be selected.						
nd Disease							
llation Risk	Predicted Future Cost						
Class Change	Risk Increased To	Risk Decreased To					l
	Moderate	High		beside "Risk Incre			
	<b>✓</b> High	Moderate		") and all elevated	levels of r	ISK WIII	
	Very High	Low					•
			UTILIZA	TION RISK			
	IP Admissions		ED Visits				
	Risk Increased To	Risk Decreased To	Risk Increased To	Risk Decreased To	Altornat	ively, check t	the specific
	Moderate	High	Moderate	High		l change(s) d	
	High	Moderate	High	Moderate	TISK ICVC	r change(3) d	con cu.
	Very High	Low	Very High	Low			
	Risk Increased To	Risk Decreased To	Risk Increased To	Risk Decreased To	Ris	k Increased To	Risk Decrease
	Moderate	High	Moderate	High		Moderate	High
	High	Moderate	High	Moderate		High	Moderate
	Very High	Low	Very High	Low		Very High	Low
Acute Myocardia	ıl Infarction	Asthma Exa	EVENT RISK	Cerebro	vascular Accident		
Risk Increase		eased To Risk Inc		_			sed To
I Mark III Cledast	ed To Risk Decr	based to INSK IIIC	reased To Risk Dec	creased To Risk	Increased To	Risk Decrea	
Moderate		Mod			Increased To  Moderate	RISK Decrea	
		Mod	lerate High		Moderate		
Moderate	High Moder	Mod	lerate High	erate	Moderate	High	
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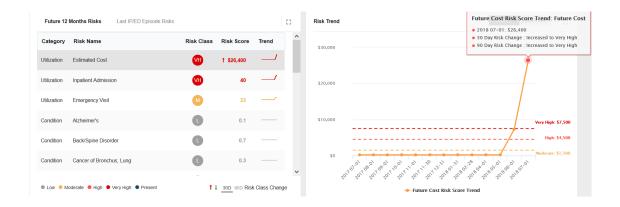
c. The patient list reflects the Risk Class rather than the risk score, however if you hover over the Risk Class icon, you will see the risk score as well. In addition, the risk score will be used when sorting on a risk column in the patient list.



d. On the Patient Profile both the Risk Class and Risk Score will be visible for each risk model.



e. If there is a change in Risk Class there will be an upward or downward arrow beside the score, as shown below next to the future cost prediction. In addition, the hover on the Risk Trend graph will include the Risk Class change(s) within the last 30 and 90 days.



# **Diagnosis and Disease Filters**

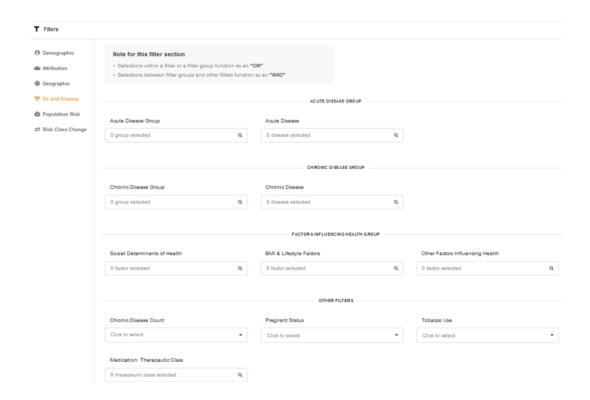
Before reviewing the new filter capabilities in detail, it is important to understand the high-level changes within the "Dx and Disease" filter page and how these filters work together as well as with filters from other categories.

There are 5 main changes:

- 1. The Diagnosis and Disease Filter page has been divided into 4 sections: Acute Disease Group, Chronic Disease Group, Factors Influencing Health Group, and Other Filters.
- 2. Acute Disease Group is now available in addition to Acute Disease. This enables selection of an entire category of acute disease, individual acute diseases, or a combination of both. These two filters make up the Acute Disease Group.
- 3. Chronic Disease Group is now available in addition to Chronic Disease. This enables selection of an entire category of chronic disease, individual chronic diseases, or a combination of both.

  These two filters make up the Chronic Disease Group.

- 4. The Factors Influencing Health Status filter has been broken out into 3 filters: Social Determinants of Health, BMI & Lifestyle Factors, and Other Factors Influencing Health. These three filters make up the Factors Influencing Health Group.
- 5. Two new filters have been added, Pregnant Status and Tobacco Use. These filters join the Chronic Disease Count and Medication Therapeutic Class filters to form the Other Filters group.



#### **Understanding Filter Behavior**

Selections within a single filter dropdown or Filter Group use an OR clause. Selections across Filter Groups and filters not within the "Dx and Disease" filter use an AND clause. For example:

- If both the first and second category in a dropdown are selected, the system will return
  individuals with diagnoses in EITHER of those ranges selected.
- If selections are made in both the Chronic Disease Group filter and the Chronic Disease filter (two filters within a single filter group), the individuals returned will have at least one diagnosis that meets <u>any</u> of the diagnoses selected.
- However, if an Age filter and one or more Social Determinants of Health (SDOH) filters are used
  in addition to the Chronic Disease Group and Chronic Disease filters, the system will limit the
  returned population to just those individuals within the selected age range, with the selected
  SDOH attributes, AND with at least one matching diagnosis. For example:
  - Age Range 50-74 AND
  - Homeless AND
  - I50 Heart Failure OR any one or more chronic diseases within the Chronic Disease Group
     I00-I99 Diseases of the Circulatory System

#### Understanding the New Filters in Detail

The following new filters have been added:

#### 1. Acute Disease Group

This filter enables selection of an ICD-10 Group, rather than having to select multiple related ICD-10 codes. When one or more Acute Disease Groups are selected, patients with an acute diagnosis (primary or secondary), as defined by the AHRQ, within the last 12 months within the selected code range(s) will be included in the population. Filters behave as described in the previous section.

The options within this filter include:

A00-B99	Certain infectious and parasitic diseases
C00-D49	Neoplasms
D50-D89	Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism
E00-E89	Endocrine, nutritional, and metabolic diseases
F01-F99	Mental, behavioral and neurodevelopmental disorders
G00-G99	Diseases of the nervous system
H00-H59	Diseases of the eye and adnexa
H60-H95	Diseases of the ear and mastoid process
100-199	Diseases of the circulatory system
J00-J99	Diseases of the respiratory system
K00-K95	Diseases of the digestive system
L00-L99	Diseases of the skin and subcutaneous tissue
M00-M99	Diseases of the musculoskeletal system and connective tissue
N00-N99	Diseases of the genitourinary system
O00-O9A	Pregnancy, childbirth, and the puerperium
P00-P96	Certain conditions originating in the perinatal period
Q00-Q99	Congenital malformations, deformations, and chromosomal abnormalities
R00-R99	Symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified
S00-T88	Injury, poisoning and certain other consequences of external causes
V00-Y99	External causes of morbidity

## 2. Chronic Disease Group

This filter enables selection of an ICD-10 Group, rather than having to select multiple related ICD-10 codes. When one or more Chronic Disease Groups are selected, patients with a chronic diagnosis (primary or secondary), as defined by the AHRQ, within the last 24 months within the selected code range(s) will be included in the population. Filters behave as described in the previous section.

The options within this filter include:

A00-B99	Certain infectious and parasitic diseases
C00-D49	Neoplasms
D50-D89	Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism
E00-E89	Endocrine, nutritional, and metabolic diseases
F01-F99	Mental, behavioral and neurodevelopmental disorders
G00-G99	Diseases of the nervous system
H00-H59	Diseases of the eye and adnexa
H60-H95	Diseases of the ear and mastoid process
100-199	Diseases of the circulatory system
J00-J99	Diseases of the respiratory system
K00-K95	Diseases of the digestive system
L00-L99	Diseases of the skin and subcutaneous tissue
M00-M99	Diseases of the musculoskeletal system and connective tissue
N00-N99	Diseases of the genitourinary system
O00-O9A	Pregnancy, childbirth, and the puerperium
P00-P96	Certain conditions originating in the perinatal period
Q00-Q99	Congenital malformations, deformations, and chromosomal abnormalities
R00-R99	Symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified
S00-T88	Injury, poisoning and certain other consequences of external causes
V00-Y99	External causes of morbidity

## 3. Pregnant Status

There may be times when it is advantageous to exclude individuals who are pregnant, for example when focused on those with an increased risk for IP admission as every pregnant woman is by nature at high risk for an IP admission but not otherwise at high risk.

Likewise, there may be times when the focus is solely on individuals who are pregnant – perhaps identifying those with chronic conditions, specific chronic conditions, or at high risk due to age. This filter looks for a pregnancy related primary or secondary diagnosis.

The filter options are Yes or No:

- If Yes is selected, the population will be limited to female individuals over the age of 9, and under the age of 55, with a diagnosis of pregnancy.
- If No is selected, individuals who have a pregnancy diagnosis are excluded from the population.
- An individual is counted as pregnant when one or more of these ICD-10 codes is present within the last 12 months:

ICD-10 Code	Description
009	Supervision of high-risk pregnancy
010	Pre-existing hypertension complicating pregnancy, childbirth and the puerperium
011	Pre-existing hypertension with pre-eclampsia
012	Gestational [pregnancy-induced] edema and proteinuria without hypertension
013	Gestational [pregnancy-induced] hypertension without significant proteinuria
014	Pre-eclampsia
015	Eclampsia
O16	Unspecified maternal hypertension
O20	Hemorrhage in early pregnancy
021	Excessive vomiting in pregnancy
022	Venous complications and hemorrhoids in pregnancy
023	Infections of genitourinary tract in pregnancy
024	Diabetes Mellitus in pregnancy, childbirth and the puerperium
025	Malnutrition in pregnancy, childbirth and the puerperium
O26	Maternal care for other conditions predominantly related to pregnancy
O28	Abnormal findings on antenatal screening of mother
029	Complications of anesthesia during pregnancy
O30	Multiple gestation
033	Maternal care for disproportion
034	Maternal care for abnormality of pelvic organs
O35	Maternal care for known or suspected fetal abnormality and damage
O36	Maternal care for other fetal problems
O40	Polyhydramnios
041	Other disorders of amniotic fluid and membranes
O42	Premature rupture of membranes

O43	Placental disorders
044	Placenta previa
O45	Premature separation of placenta (abruptio placentae)
O46	Antepartum hemorrhage, not elsewhere classified
O47	False labor
O48	Late pregnancy
O60	Preterm labor
071	Other obstetric trauma
O88	Obstetric embolism
091	Infections of breast associated with pregnancy, the puerperium and lactation
O92	Other disorders of breast and disorders of lactation associated with pregnancy and the puerperium
O98	Maternal infectious and parasitic diseases classifiable elsewhere but complicating pregnancy, childbirth and the puerperium
O99	Other maternal diseases classifiable elsewhere but complicating pregnancy, childbirth and the puerperium
O9A	Maternal malignant neoplasms, traumatic injuries and abuse classifiable elsewhere but complicating pregnancy, childbirth and the puerperium

#### 4. Tobacco Use

The filter options are Yes or No:

- If Yes is selected, the population will be limited to individuals with nicotine dependence in any form, as indicated by any of the following ICD-10 codes, documented as a primary or secondary diagnosis within the last 12 months in individuals 10 years or older:
  - F17.200 Nicotine dependence, unspecified, uncomplicated
  - F17.210 Nicotine dependence, cigarettes, uncomplicated
  - F17.220 Nicotine dependence, chewing tobacco, uncomplicated
  - F17.290 Nicotine dependence, other tobacco product, uncomplicated
- If No is selected, the population will be limited to individuals without documented nicotine dependence.

## 5. SDOH and Lifestyle Factors

The Social Determinants of Health (SDOH) & Lifestyle Factors (Z Codes) filter was broken out into 3 filters, with 2 of the 3 filters expanded beyond the decimal point. Selections within these 3 filters use an OR clause as described on page 11.

The SDOH filter will limit the population to individuals with one or more of these 70 multi-select codes documented within the past 12 months.

Z55.0 Illiteracy and low-level literacy
Z55.1 Schooling unavailable and unattainable
Z55.2 Failed school examinations
Z55.3 Underachievement in school
Z55.4 Educational maladjustment & discord w teachers & classmates
Z55.8 Other problems related to education and literacy
Z55.9 Problems related to education and literacy, unspecified
Z56.0 Unemployment, unspecified
Z56.1 Change of job
Z56.2 Threat of job loss
Z56.3 Stressful work schedule
Z56.4 Discord with boss and workmates
Z56.5 Uncongenial work environment
Z56.6 Other physical and mental strain related to work
Z56.8 Other problems related to employment
Z56.9 Unspecified problems related to employment
Z57.0 Occupational exposure to noise
Z57.1 Occupational exposure to radiation
Z57.2 Occupational exposure to dust
Z57.3 Occupational exposure to other air contaminants
Z57.4 Occupational exposure to toxic agents in agriculture
Z57.5 Occupational exposure to toxic agents in other industries
Z57.6 Occupational exposure to extreme temperature
Z57.7 Occupational exposure to vibration
Z57.8 Occupational exposure to other risk factors

Z57.9 Occupational exposure to unspecified risk factor
Z59.0 Homelessness
Z59.1 Inadequate housing
Z59.2 Discord with neighbors, lodgers and landlord
Z59.3 Problems related to living in residential institution
Z59.4 Lack of adequate food and safe drinking water
Z59.5 Extreme poverty
Z59.6 Low income
Z59.7 Insufficient social insurance and welfare support
Z59.8 Other problems related to housing and economic circumstances
Z59.9 Problem related to housing and economic circumstances, unsp
Z60.0 Problems of adjustment to life-cycle transitions
Z60.2 Problems related to living alone
Z60.3 Acculturation difficulty
Z60.4 Social exclusion and rejection
Z60.5 Target of (perceived) adverse discrimination and persecution
Z60.8 Other problems related to social environment
Z60.9 Problem related to social environment, unspecified
Z62.0 Inadequate parental supervision and control
Z62.1 Parental overprotection
Z62.2 Upbringing away from parents
Z62.3 Hostility towards and scapegoating of child
Z62.6 Inappropriate (excessive) parental pressure
Z62.8 Other specified problems related to upbringing
Z62.9 Problem related to upbringing, unspecified
Z63.0 Problems in relationship with spouse or partner
Z63.1 Problems in relationship with in-laws
Z63.3 Absence of family member
Z63.4 Disappearance and death of family member
763.5 Disruption of family by separation and divorce

Z63.7 Other stressful life events affecting family and household
Z63.8 Other specified problems related to primary support group
Z63.9 Problem related to primary support group, unspecified
Z64.0 Problems related to unwanted pregnancy
Z64.1 Problems related to multiparity
Z64.4 Discord with counselors
Z65.0 Conviction in civil & criminal proceedings w/o imprisonment
Z65.1 Imprisonment and other incarceration
Z65.2 Problems related to release from prison
Z65.3 Problems related to other legal circumstances
Z65.4 Victim of crime and terrorism
Z65.5 Exposure to disaster, war and other hostilities
Z65.8 Oth problems related to psychosocial circumstances
Z65.9 Problem related to unspecified psychosocial circumstances

# 6. BMI and Lifestyle Factors

The BMI and Lifestyle Factors filter will limit the population to individuals with one or more of these 15 multi-select codes documented within the past 12 months.

Z68.1 Body mass index (BMI) 19.9 or less, adult
Z68.2 Body mass index (BMI) 20-29, adult
Z68.3 Body mass index (BMI) 30-39, adult
Z68.4 Body mass index (BMI) 40 or greater, adult
Z68.51 BMI pediatric, less than 5th percentile for age
Z68.52 BMI pediatric, 5th percentile to less than 85% for age
Z68.53 BMI pediatric, 85% to less than 95th percentile for age
Z68.54 BMI pediatric, greater than or equal to 95% for age
Z72.0 Tobacco use
Z72.3 Lack of physical exercise
Z72.4 Inappropriate diet and eating habits
Z72.5 High risk sexual behavior
Z72.6 Gambling and betting
Z72.8 Other problems related to lifestyle
Z72.9 Problem related to lifestyle, unspecified

# 7. Other Factors Influencing Health

The Other Factors Influencing Health filter will limit the population to individuals with one or more of the selected codes documented within the past 12 months.

The Other Factors Influencing Health, include these remaining 78 multi-select codes:

Z00 Encntr for general exam w/o complaint, susp or reprtd dx
Z01 Encntr for oth sp exam w/o complaint, suspected or reprtd dx
Z02 Encounter for administrative examination
Z03 Encntr for medical obs for susp diseases and cond ruled out
Z04 Encounter for examination and observation for other reasons
Z05 Enctr for Obs & eval of NB for susp diseases and cond R/O
Z08 Encntr for follow-up exam after trtmt for malignant neoplasm
Z09 Encntr for f/u exam aft trtmt for cond oth than malig neoplm
Z11 Encounter for screening for infec/parastc diseases
Z12 Encounter for screening for malignant neoplasms
Z13 Encounter for screening for other diseases and disorders
Z14 Genetic carrier
Z15 Genetic susceptibility to disease
Z16 Resistance to antimicrobial drugs
Z17 Estrogen receptor status
Z18 Retained foreign body fragments
Z19 Hormone sensitivity malignancy status
Z20 Contact w and (suspected) exposure to communicable diseases
Z21 Asymptomatic human immunodeficiency virus infection status
Z22 Carrier of infectious disease
Z23 Encounter for immunization
Z28 Immunization not carried out and underimmunization status
Z29 Encounter for other prophylactic measures
Z30 Encounter for contraceptive management
Z31 Encounter for procreative management

Z32 Encntr for preg test and childbrth and childcare instruction
Z33 Pregnant state
Z34 Encounter for supervision of normal pregnancy
Z36 Encounter for antenatal screening of mother
Z37 Outcome of delivery
Z38 Liveborn infants according to place of birth and type of del
Z39 Encounter for maternal postpartum care and examination
Z3A Weeks of gestation
Z40 Encounter for prophylactic surgery
Z41 Encntr for proc for purposes oth than remedying health state
Z42 Encntr for plast/recnst surg fol med proc or healed injury
Z43 Encounter for attention to artificial openings
Z44 Encounter for fit/adjst of external prosthetic device
Z45 Encounter for adjustment and management of implanted device
Z46 Encounter for fitting and adjustment of other devices
Z47 Orthopedic aftercare
Z48 Encounter for other postprocedural aftercare
Z49 Encounter for care involving renal dialysis
Z51 Encounter for other aftercare and medical care
Z52 Donors of organs and tissues
Z53 Persons encntr hith serv for spec proc & trtmt, not crd out
Z66 Do not resuscitate
Z67 Blood type
Z69 Encntr for mental health serv for victim and perp of abuse
Z70 Counseling related to sexual attitude, behavior and orientn

# Other Enhancements

#### **Last Refreshed**

In the upper left-hand corner of the dashboard is the "Last Refreshed" date which provides clarity around the last data refresh date. This date will reflect the last update to the data, which may be refreshed monthly, daily, or both.

#### **Back Button**

A back button has been added to the Individual Risk view so that the user can retain the sort and filters set in the Population Risk view or the Quality Measure view upon return.