# **Prioritization Process**

Albany & Rensselaer Counties

Health Issue Ranking



Healthy Capital District Initiative November 9, 2021

### **Health Issue: Diabetes**

Opportunity	Max Score	Region's Score
Health issue aligns with organizations' strategic goals	3	
If already invested in addressing this need, are efforts working sustainably	2	
If not already working on this need, do we have resources and expertise to lead the effort	1	
Are there organizations that would be interested in supporting efforts to address this need	2	
Is it possible to make a measureable, positive impact	3	
Other considerations	3	
Community Partner considerations	3	
Total Opportunity Score	17	0

	Max	Score				
Need	Score	Albany	Rensselaer	Average		
Is this issue a major need in the community - <b>Total number</b> of cases	2	1.16	1.27	1.21		
Is this issue worse in our region than throughout NY - Rates	2	0.72	0.77	0.74		
Is this issue more common for some populations - Disparities	2	1.16	1.07	1.11		
Is this issue getting better or worse - <b>Trend</b>	2	1.13	1.42	1.27		
How seriously does this issue threaten mortality	2	1.00	1.00	1.00		
Is this issue a <b>priority for the community</b> based on the survey	3	1.97	2.00	1.98		
Other considerations about the data	2					
Community Partner considerations	3					
Total Need Score	18	7.13	7.52	7.33		

Total Organization-based Score
Total Data-based Score
Total Community Partner-based Score
Total Priority Score

Max	S	Score	Average	Contribution
Score	Albany			to Total Score
14				40%
10	5.16	5.53		29%
11	1.97	2.00		31%
35	7.13	7.52	7.33	



### Need Score

#### **18** Total Points

#### 13 Points based on data

- **2** Count
- Absolute Number

- **2** Rate
- Compared to NYS, excl. NYC, rate

- **2** Trend
- $\frac{(Slope)\times(Years\ of\ Data)}{(Average\ Count\ or\ Rate)}$
- 2 Disparity
- Disparity Index among sub-populations

- **2** Seriousness
- From health behavior to mortality
- **3** Community Priority
- Survey results-based
- **2** Other Considerations
- More recent or local data
- **3** Community Partner considerations



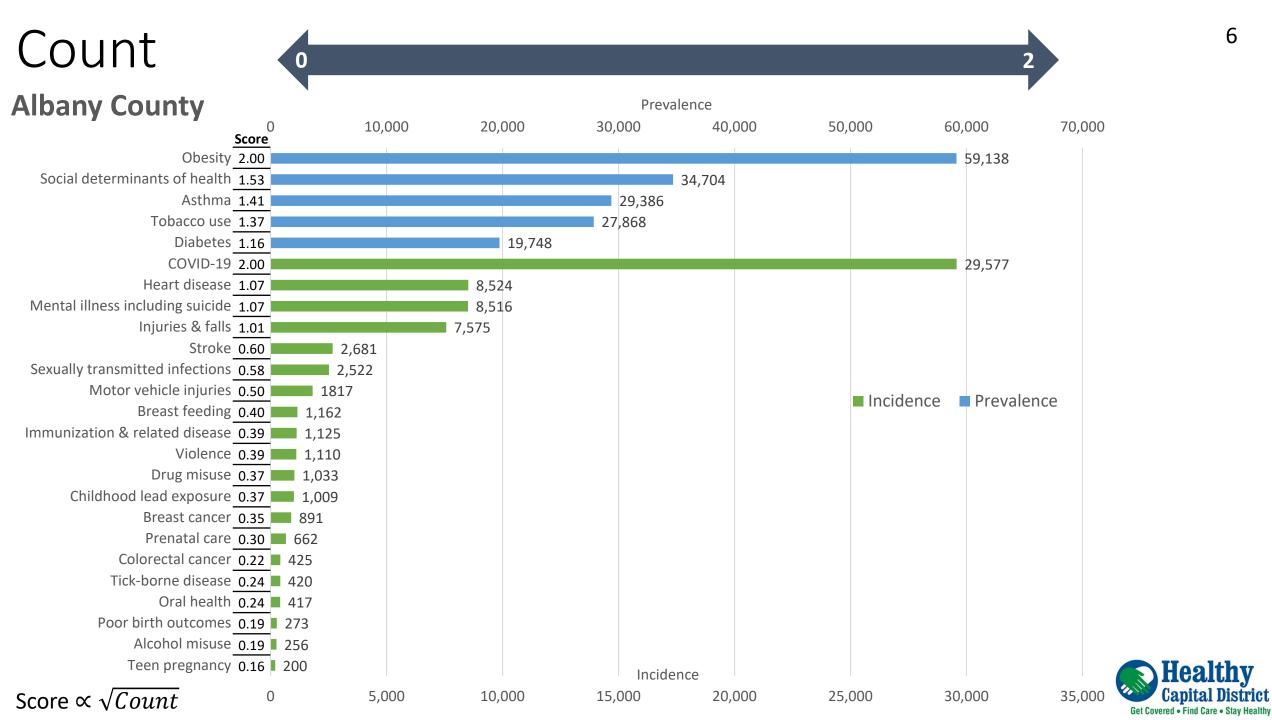
### Health Issue & Measure Selection

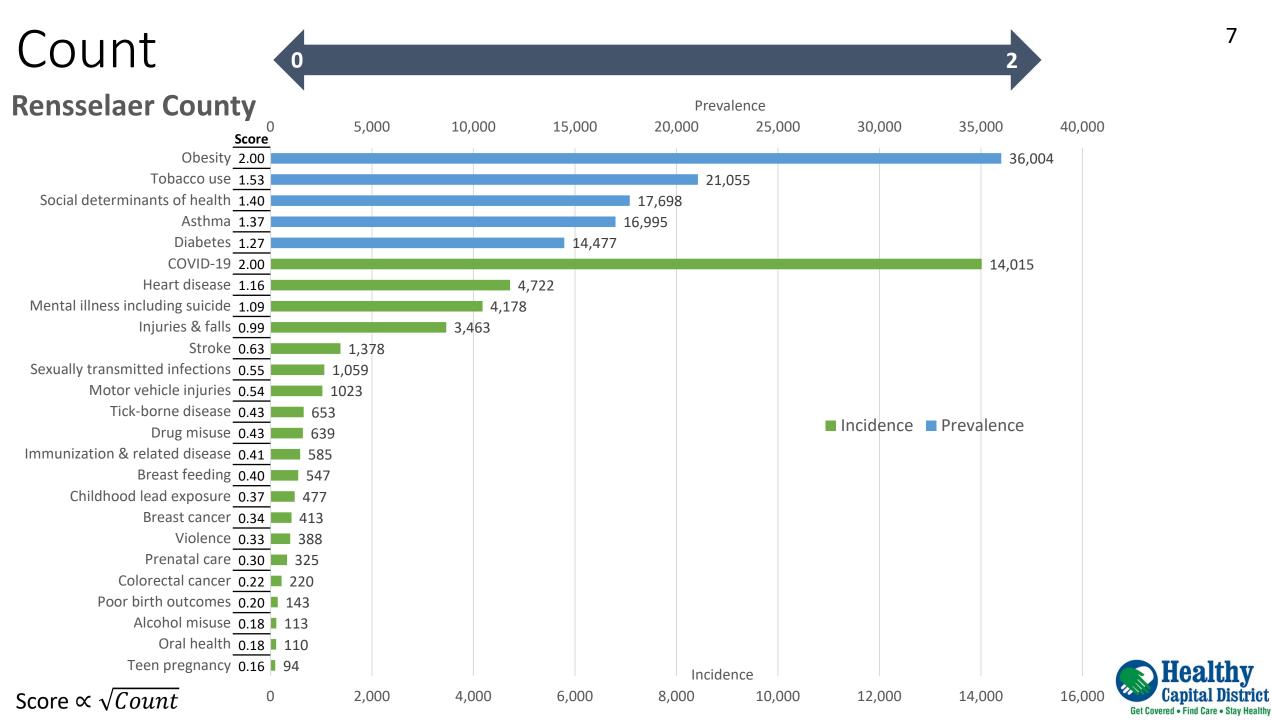
- 25 Health Issues and around 100 Health Measures were selected from over 700 health measures located in 8 New York State data collections:
  - Prevention Agenda Dashboard
  - Community Health Indicator Reports (CHIRS) Dashboard
  - County Health Indicators by Race/Ethnicity (CHIRE)
  - Opioid Data Dashboard
  - SPARCS data via Common Ground Health Portal
  - Behavioral Risk Factor Surveillance Survey (BRFSS)
  - Division of Criminal Justice Services (DCJS) Index Crimes
  - DOH COVID-19 Tracker
  - Cancer Registry

#	Health Issue
1	COVID-19
2	Colorectal Cancer
3	Breast Cancer
4	Obesity
5	Asthma
6	Diabetes
7	Heart disease
8	Stroke
9	Violence
10	Injuries & falls
11	Motor vehicle injuries
12	Poor birth outcomes
13	Prenatal care
14	Breast feeding
15	Tobacco use
16	Drug misuse
17	Alcohol misuse
18	Mental illness including suicide
19	Sexually transmitted infections
20	Teen pregnancy
21	Childhood lead exposure
22	Lyme disease
23	Immunization & related disease
24	Social Determinants of Health
25	Oral Health

				Measures (n)			Survey Responses (n)
#	Health Issue	Count	Rate	Disparities	Trend	Seriousness	<b>Community Priority</b>
1	COVID-19	1	2	1	0	2	788
2	Colorectal Cancer	1	3	2	3	3	782
3	Breast Cancer	1	4	2	4	4	782
4	Obesity	1	2	2	2	2	787
5	Asthma	1	7	4	6	7	774
6	Diabetes	1	5	4	5	5	777
7	Heart disease	1	7	6	6	7	779
8	Stroke	1	2	2	2	2	779
9	Violence	1	5	1	5	5	783
10	Injuries & falls	1	2	4	2	2	772
11	Motor vehicle injuries	1	2	1	3	3	772
12	Poor birth outcomes	1	3	3	3	3	762
13	Prenatal care	1	3	2	3	3	0
14	Breast feeding	1	2	1	2	2	0
15	Tobacco use	1	5	2	4	5	781
16	Drug misuse	1	6	1	6	6	782
17	Alcohol misuse	1	4	2	4	4	782
18	Mental illness including suicide	1	6	1	6	6	784
19	Sexually transmitted infections	1	6	1	5	6	767
20	Teen pregnancy	1	2	1	2	2	767
21	Childhood lead exposure	1	3	1	3	3	0
22	Lyme disease	1	1	0	1	1	0
23	Immunization & related disease	1	3	1	3	3	0
24	Social Determinants of Health	1	7	2	6	7	0
25	Oral Health	1	3	1	3	3	0
	Total	25	95	40	91	96	803







Rate = 
$$\left(\frac{\text{County Rate}}{\text{NYS Rate}}\right)^*$$

• Example: Stroke in Albany County

		<b>Albany</b>	NYS excl.		Average
Health Measure	Year	County	NYC	Rate Ratio	Rate Ratio
Age-adjusted cerebrovascular disease (stroke) <b>hospitalization</b> rate per 10,000	2016-2018	23.2	21	1.10	1.13
Age-adjusted cerebrovascular disease (stroke) <b>mortality</b> rate per 100,000	2016-2018	28.4	24.5	1.16	1.15



### Albany Top 10 Rates – Worse than NYS excl. NYC

	Health Measure	Health Issue	Data Years	Rate Ratio =
1	Anaplasmosis incidence	Tick-borne disease	2016-2018	3.44
2	Firearm assault-related hospitalizations, rate per 10,000 population	Violence	2017	2.62
3	Early <b>syphilis</b> case rate per 100,000	Sexually transmitted infections	2016-2018	2.16
4	Age-adjusted <b>assault</b> hospitalization rate per 10,000	Violence	2016-2018	1.94
5	Incidence of confirmed <b>high blood lead level</b> (10 micrograms or higher per deciliter) - rate per 1,000 tested <b>children</b> aged <72 months	Childhood lead exposure	2016-2018	1.81
6	Violent crime rate per 100,000	Violence	2018	1.69
7	Index crime rate per 100,000	Violence	2018	1.60
8	Lyme disease incidence per 100,000	Tick-borne disease	2016-2018	1.59
9	Gonorrhea diagnoses, age-adjusted rate per 100,000 population	Sexually transmitted infections	2018	1.52
10	Age-adjusted Newly diagnosed <b>HIV</b> case rate per 100,000	Sexually transmitted infections	2016-2018	1.48

Health Measure in Top 10 Rates worse than NYS excl. NYC, for both Albany and Rensselaer counties



## Rensselaer Top 10 Rates – Worse than NYS excl. NYC

	Health Measure	Health Issue	Data Years	Rate Ratio
1	Anaplasmosis incidence	Tick-borne disease	2016-2018	9.76
2	Lyme disease incidence per 100,000	Tick-borne disease	2016-2018	4.76
3	Babesiosis incidence	Tick-borne disease	2016-2018	4.27
4	Incidence of confirmed <b>high blood lead level</b> (10 micrograms or higher per deciliter) - rate per 1,000 tested <b>children</b> aged <72 months	Childhood lead exposure	2016-2018	1.67
5	Infant mortality rate per 1,000 live births - (<1 year)	Poor birth outcomes	2016-2018	1.44
6	Gonorrhea diagnoses, age-adjusted rate per 100,000 population	Sexually transmitted infections	2018	1.43
7	Age-adjusted <b>oral cavity and pharynx cancer</b> incidence rate per 100,000	Tobacco use	2015-2017	1.39
8	Age-adjusted <b>chronic lower respiratory disease</b> mortality rate per 100,000	Asthma	2016-2018	1.38
9	Age-adjusted <b>oral cavity and pharynx cancer</b> mortality rate per 100,000	Tobacco use	2015-2017	1.34
10	Age-adj. <b>mental disease/disorder</b> primary dx hospitalization rate per 10,000	Mental illness including suicide	2016-2018	1.31

Health Measure in Top 10 Rates worse than NYS excl. NYC, for both Albany and Rensselaer counties



Trend = 
$$\left(\frac{\text{Slope} \times \text{Years of Data}}{\text{Average Value}}\right)^*$$

• Example: Teen Pregnancy in Rensselaer County

Health Measure	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Trend	Average Trend
<b>Teen fertility</b> rate per 1,000 (ages 15-17) (births/female population)	15.4	13.6	13.1	9.2	10.6	6.4	4.7	5.8	5.4	4.8	-1.41	-1.32
<b>Teen pregnancy</b> rate per 1,000 females aged <18 years	10.1	12	10.3	8.6	7.9	6.9	4.2	4.8	4.1	4.4	-1.23	-1.52

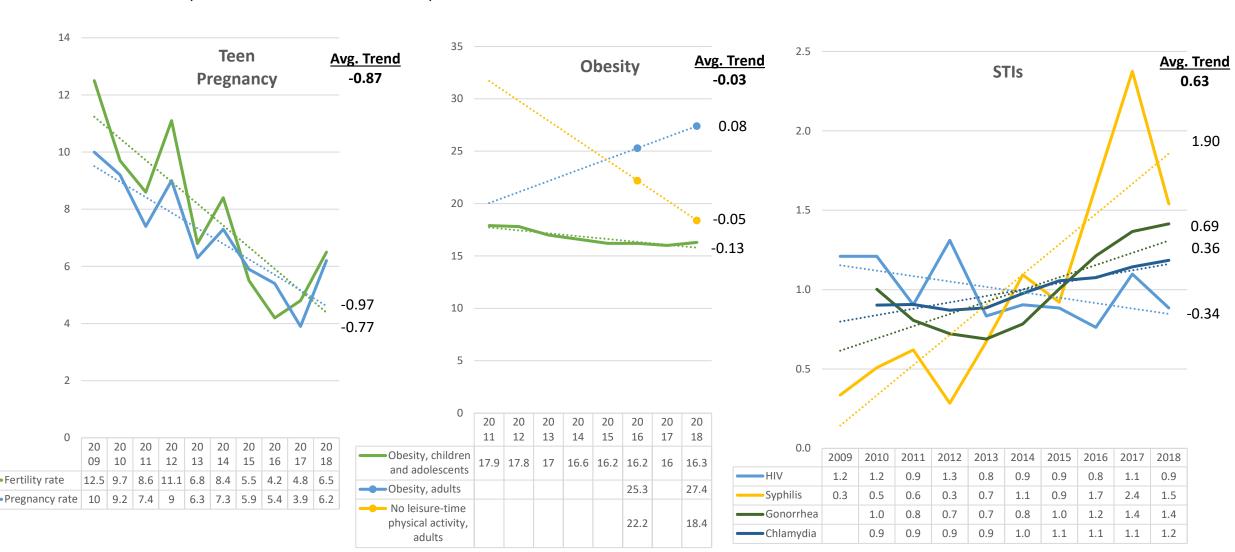


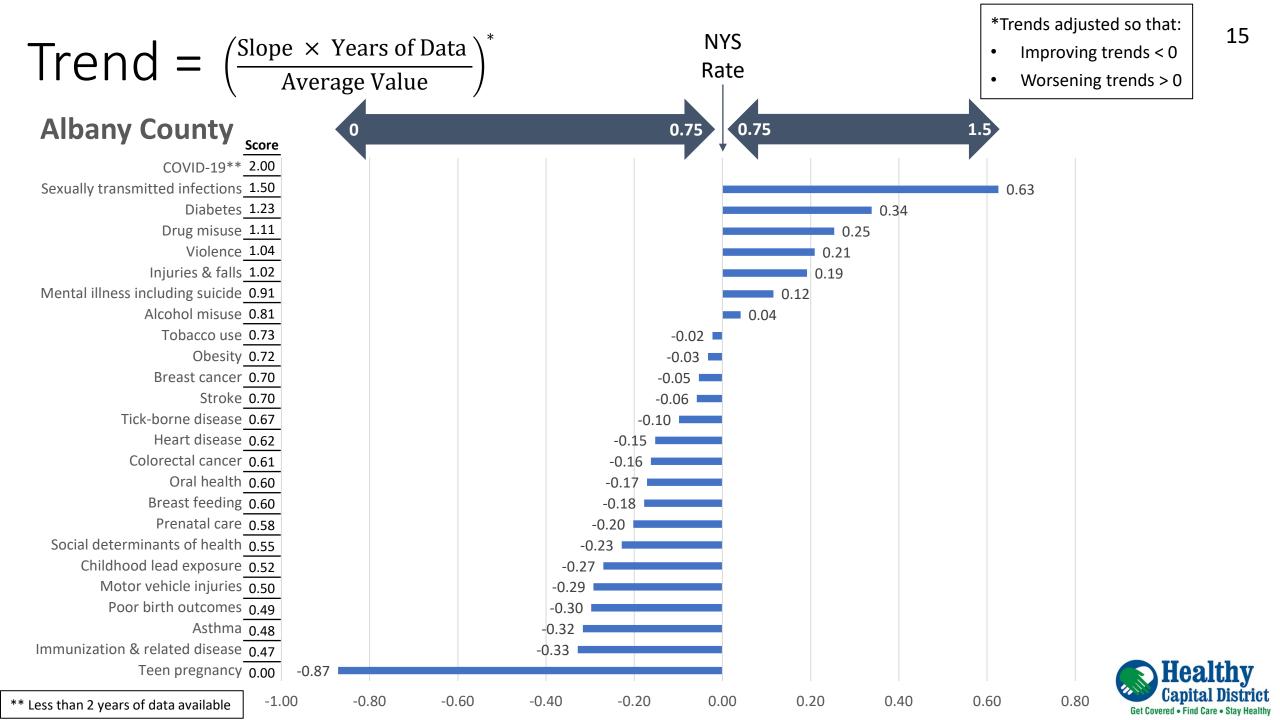
## Trend Examples

Albany County

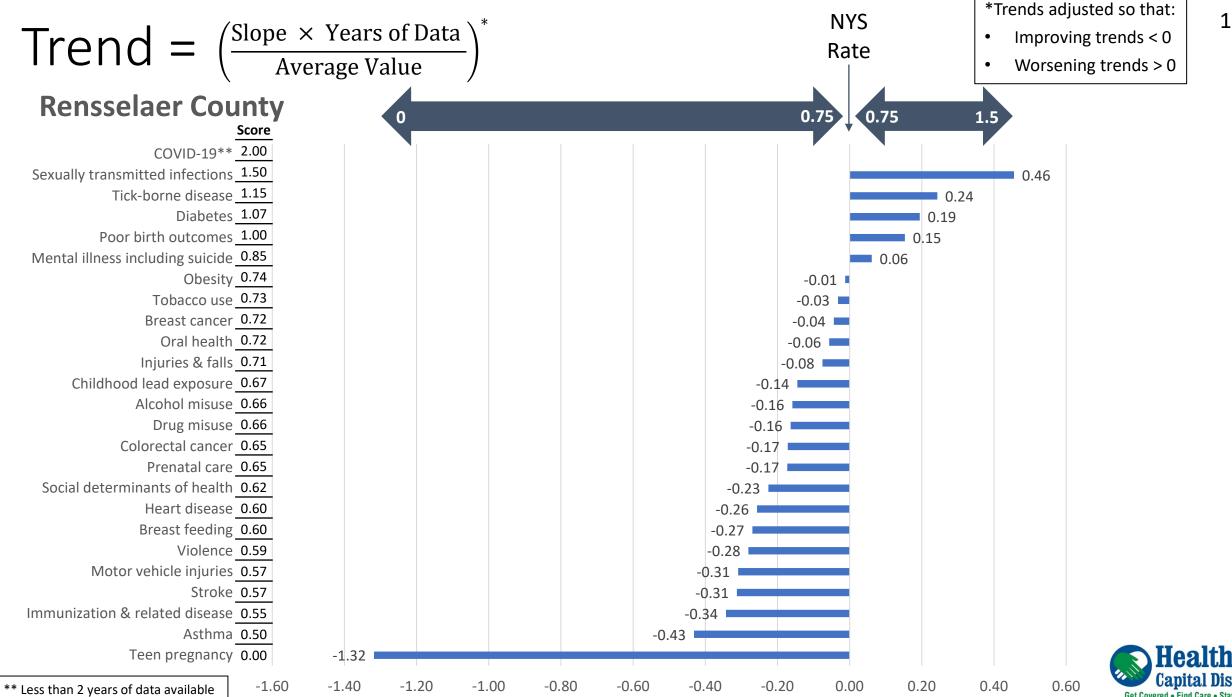
 $\left(\frac{\text{Slope} \times \text{Years of Data}}{\text{Average Value}}\right)^*$ 

\* Trends adjusted so that improving trends are less than 0; worsening trends, greater than 0 Slope is of linear regression line (using least squares method)





Get Covered . Find Care . Stav Healthy



## Albany Top 10 Trends - Worsening

	Health Measure	Health Issue	Trend =
1	Early <b>syphilis</b> case rate per 100,000	Sexually transmitted infections	1.90
2	Opioid overdose deaths (any opioid), crude rate per 100,000 population	Drug misuse	1.57
≺ .	Opioid overdose ED visits (including outpatients and admitted patients) involving any opioid, crude rate per 100,000 population	Drug misuse	1.42
4	Firearm assault-related hospitalizations, rate per 10,000 population	Violence	1.23
_	Potentially preventable diabetes short-term complications hospitalization rate per 10,000 - Aged 18 years and older	Diabetes	0.76
6	Gonorrhea diagnoses, age-adjusted rate per 100,000 population	Sexually transmitted infections	0.60
7	Babesiosis incidence	Tick-borne disease	0.51
8	Age-adjusted suicide mortality rate per 100,000	Mental illness including suicide	0.51
	Infants born with <b>neonatal abstinence symptom</b> and/or affected by maternal use of <b>drugs</b> of addiction, rate per 1,000 newborn discharges	Drug misuse	0.48
10	Age-adjusted cirrhosis hospitalization rate per 10,000	Alcohol misuse	0.47

 $\left(\frac{\text{Slope} \times \text{Years of Data}}{\text{Average Value}}\right)^*$ 

- \* Trends adjusted so that:
- worsening trends > 0
- improving trends < 0

Health Measure in Top 10 Worsening Trends for both Albany and Rensselaer counties



## Rensselaer Top 10 Trends - Worsening

	Health Measure	Health Issue	Trend =
1	Opioid overdose deaths (any opioid), crude rate per 100,000 population	Drug misuse	1.77
2	Gonorrhea diagnoses, age-adjusted rate per 100,000 population	Sexually transmitted infections	1.25
3	Potentially preventable diabetes short-term complications hospitalization rate per 10,000 - Aged 18 years and older	Diabetes	0.88
4	Suicide mortality among youth, rate per 100,000, aged 15-19 years	Mental illness including suicide	0.78
5	Babesiosis incidence	Tick-borne disease	0.74
h	Opioid overdose ED visits (including outpatients and admitted patients) involving any opioid, crude rate per 100,000 population	Drug misuse	0.58
7	Chlamydia diagnoses, age-adjusted rate per 100,000 population	Sexually transmitted infections	0.52
8	Early <b>syphilis</b> case rate per 100,000	Sexually transmitted infections	0.52
9	Caries (cavities) outpatient visit rate per 10,000 - Aged 3-5 years	Oral health	0.41
10	Age-adjusted <b>suicide mortality</b> rate per 100,000	Mental illness including suicide	0.38

 $\left(\frac{\text{Slope} \times \text{Years of Data}}{\text{Average Value}}\right)^*$ 

- \* Trends adjusted so that:
- worsening trends > 0
- improving trends < 0

Health Measure in Top 10 Worsening Trends for both Albany and Rensselaer counties





# Index of Disparity

• Example: Infant Mortality in Rensselaer County

	Non-Hi	spanic		Total
Health Indicator	White	Black	Hispanic	Population
Infant mortality per 1,000 live births	3.3	22.3	26.8	7.0

Absolute Difference of between Infant Mortality in Race/Ethnicity Group and Total Population	3.7	15	.3	19.8
Average Absolute Difference – Infant Mortality	12.9			

Index of Disparity – Infant Mortality	185%
---------------------------------------	------

#### **Index of Disparity**

average absolute difference between subpopulation rate and total population rate

(total population rate)

$$\frac{12.9}{7.0} = 1.85$$



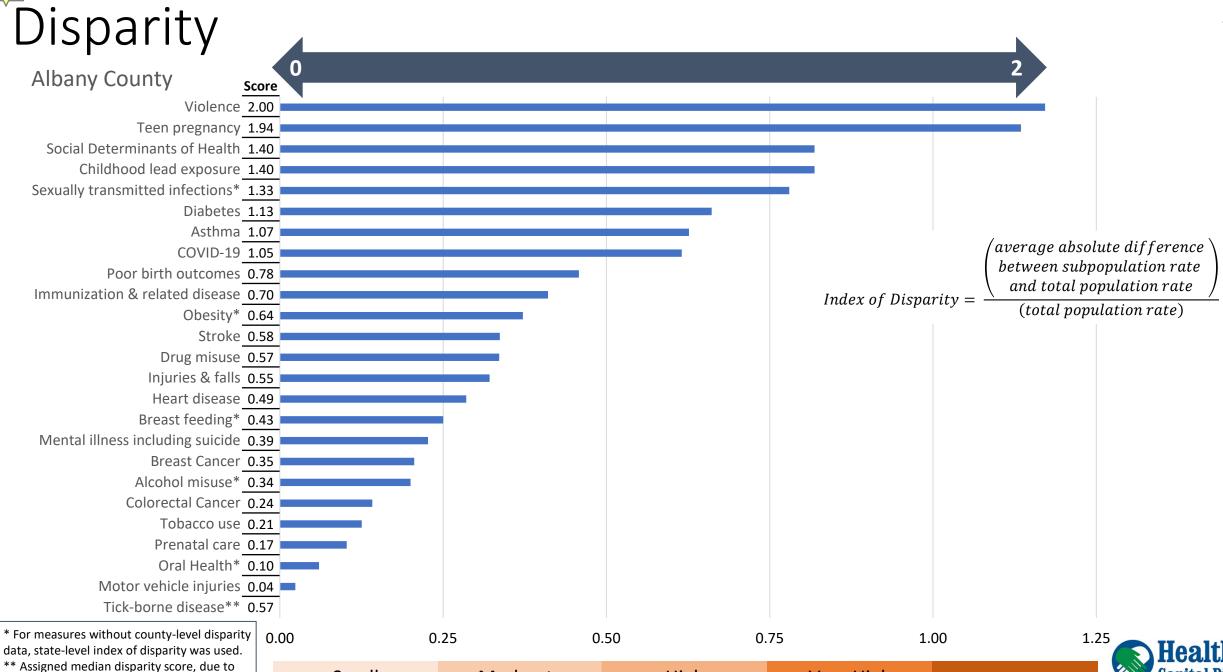
## Average Index of Disparity

• Example: Poor Birth Outcomes in Rensselaer County

Health Indicator	Index of Disparity
Index of Disparity – Infant Mortality	185%
Index of Disparity – Premature Births	23%
Index of Disparity – Low Birthweight Births	39%
Average Index of Disparity – Poor Birth Outcomes	82%



Get Covered . Find Care . Stav Healthy



High

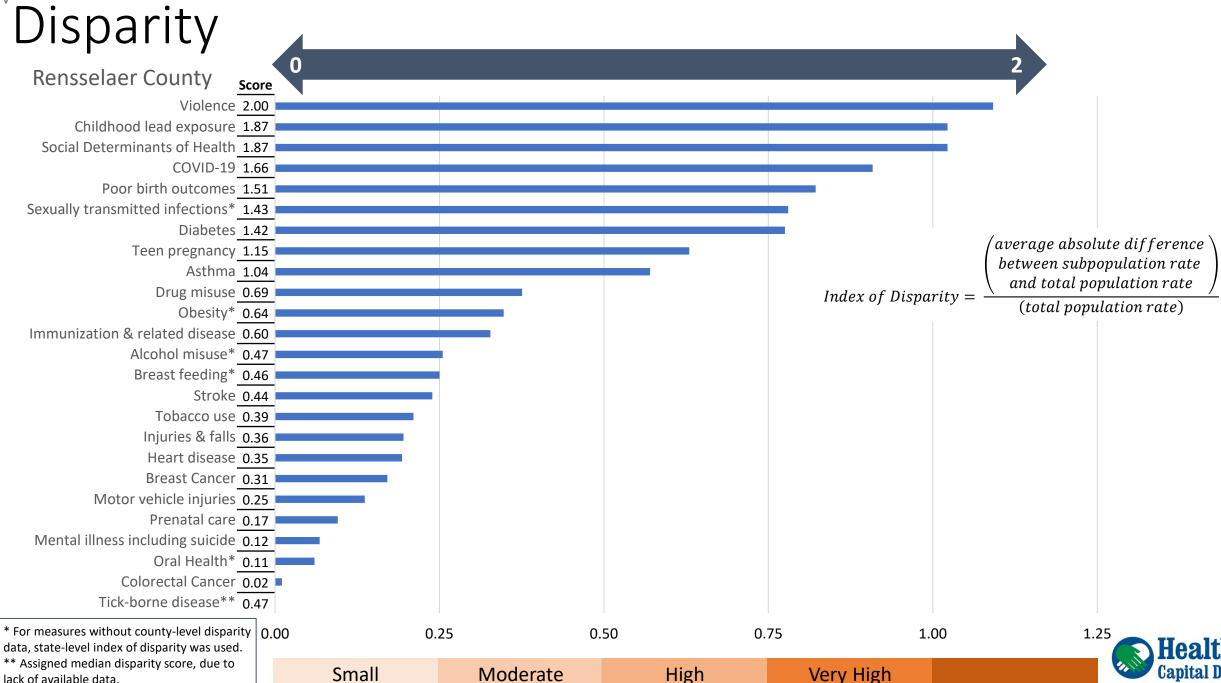
Very High

Moderate

Small

lack of available data.

Get Covered • Find Care • Stay Healthy



High

Small

lack of available data.

# Albany Top 10 Measures of Disparity

	Health Measure	Health Issue	Index of Disparity
1	Percentage of families below poverty (2014-2018)	Social Determinants of Health	131%
2	Assault-related hospitalizations	Violence	117%
3	Teen pregnancies per 1,000 females aged under 18 years	Teen pregnancy	113%
4	Infant mortality per 1,000 live births	Poor birth outcomes	107%
5	Asthma hospitalizations per 10,000 population, age-adjusted	Asthma	92%
6	Asthma hospitalizations per 10,000 population, aged 0-17 years	Asthma	80%
/	Diabetes (primary diagnosis) hospitalizations per 10,000 population, ageadjusted	Diabetes	78%
X	Potentially preventable diabetes short-term complications hospitalization rate per 10,000 population - Aged 18+ Years	Diabetes	77%
9	Chronic lower respiratory disease hospitalizations per 10,000 population, ageadjusted	Asthma	62%
10	Age-Adjusted COVID-19 Death Rate per 100,000 population	COVID-19	62%

Health Measure in Top 10 Measures of Disparity for both Albany and Rensselaer counties



# Rensselaer Top 10 Measures of Disparity

	Health Measure	Health Issue	Index of Disparity
1	Infant mortality per 1,000 live births	Poor birth outcomes	185%
,	Potentially preventable diabetes short-term complications hospitalization rate per 10,000 population - Aged 18+ Years	Diabetes	184%
3	Percentage of families below poverty (2014-2018)	Social Determinants of Health	179%
4	Asthma hospitalizations per 10,000 population, age-adjusted	Asthma	112%
5	Assault-related hospitalizations	Violence	109%
6	Age-Adjusted COVID-19 Death Rate per 100,000 population	COVID-19	91%
/	Diabetes (primary diagnosis) hospitalizations per 10,000 population, ageadjusted	Diabetes	68%
8	Teen pregnancies per 1,000 females aged under 18 years	Teen pregnancy	63%
9	Asthma hospitalizations per 10,000 population, aged 0-17 years	Asthma	60%
10	Diabetes (any diagnosis) hospitalizations per 10,000 population, age-adjusted	Diabetes	57%

Health Measure in Top 10 Measures of Disparity for both Albany and Rensselaer counties



## Seriousness

• Example: Stroke

Health Measure	Seriousness	_
Age-adjusted cerebrovascular disease (stroke) <b>hospitalization</b> rate per 10,000	4	
Age-adjusted cerebrovascular disease (stroke) <b>mortality</b> rate per 100,000	5	
Average Seriousness	4.5	

Health Measure Category	Seriousness
Mortality	5
Major Hospitalization	4
Minor Hospitalization	3
Major ED Visit	3
Minor ED Visit	2
Health Condition (e.g. asthma, diabetes)	2
Health Behavior (e.g. smoking, drinking) or screening/preventive care-related	1



Get Covered • Find Care • Stay Healthy

# Community Priority Scoring Example

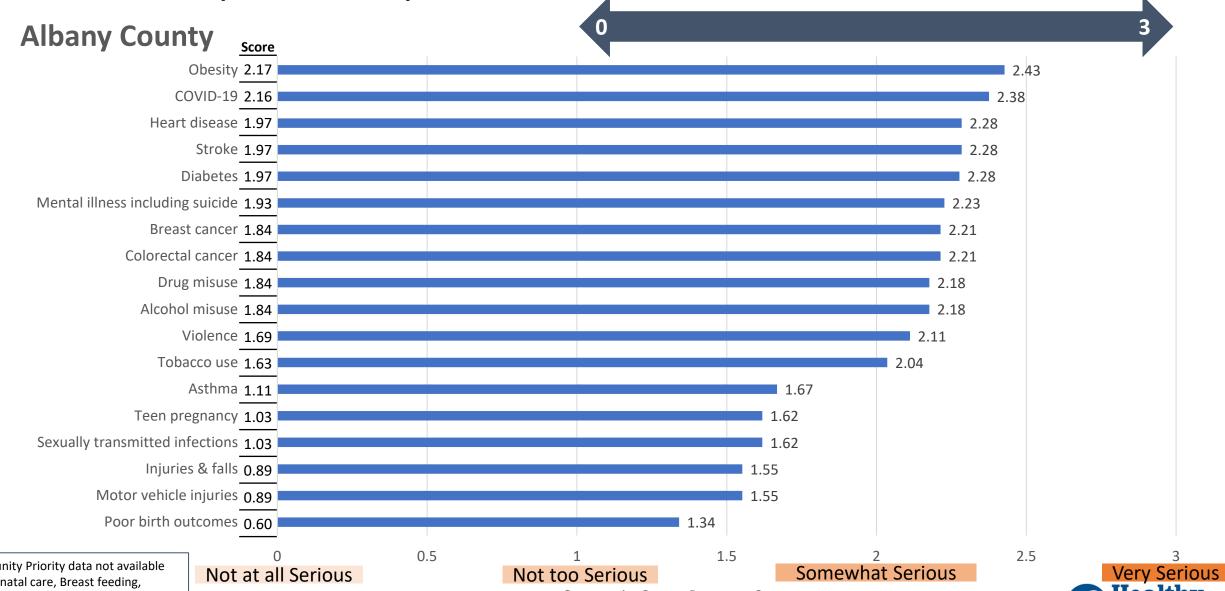
1. How serious a public health problem in your community is each of the following?

	Not at all serious	Not too serious	Somewhat serious	Very serious	Responses	Score out of 3
Asthma Count Row %	129 9.6%	482 35.8%	587 43.6%	149 11.1%	1,347	1.56
Cancer Count Row %	40 2.9%	190 13.9%	599 43.9%	537 39.3%	1,366	2.20
COVID-19 Count Row %	62 4.5%	162 11.7%	474 34.4%	681 49.4%	1,379	2.29
	× 0	× 1	× 2	× 3		



Get Covered . Find Care . Stay Healthy

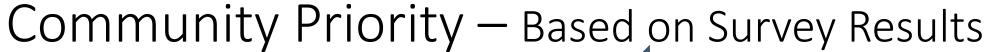
Community Priority — Based on Survey Results



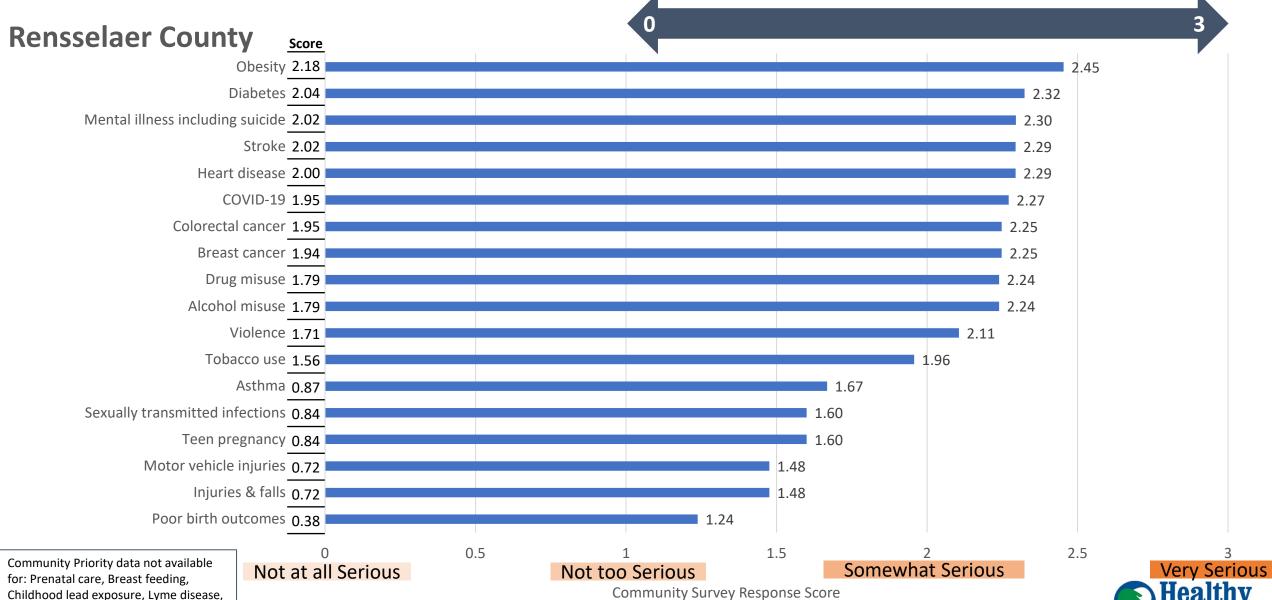
Community Priority data not available for: Prenatal care, Breast feeding, Childhood lead exposure, Lyme disease, Immunization & related disease, Social determinants of health, Oral health

Community Survey Response Score

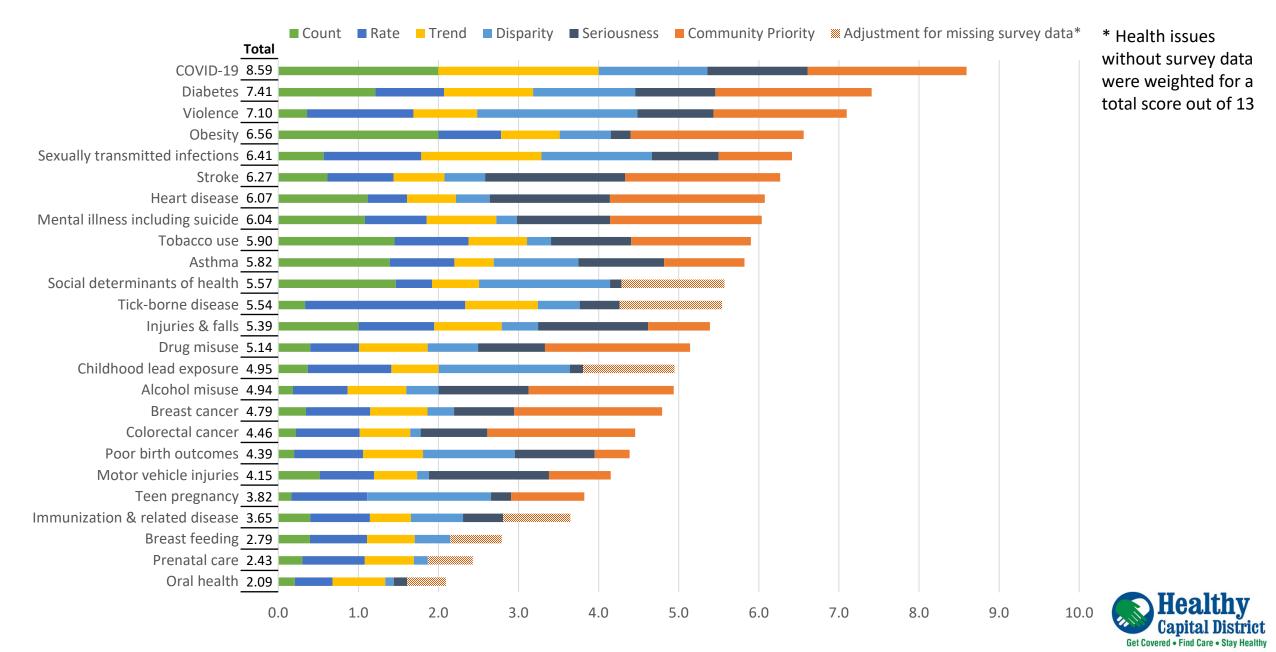
Get Covered . Find Care . Stay Healthy



Immunization & related disease, Social determinants of health, Oral health



#### Albany & Rensselaer - Data-based Need Score (out of 13)

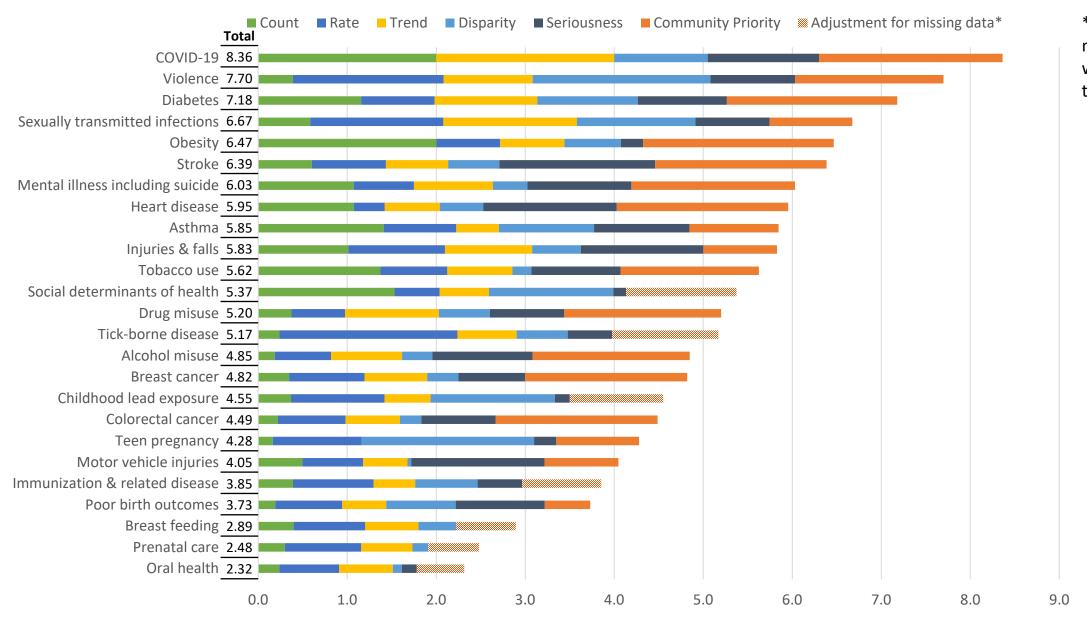






#### Appendix:

#### Albany County - Data-based Need Score (out of 13)

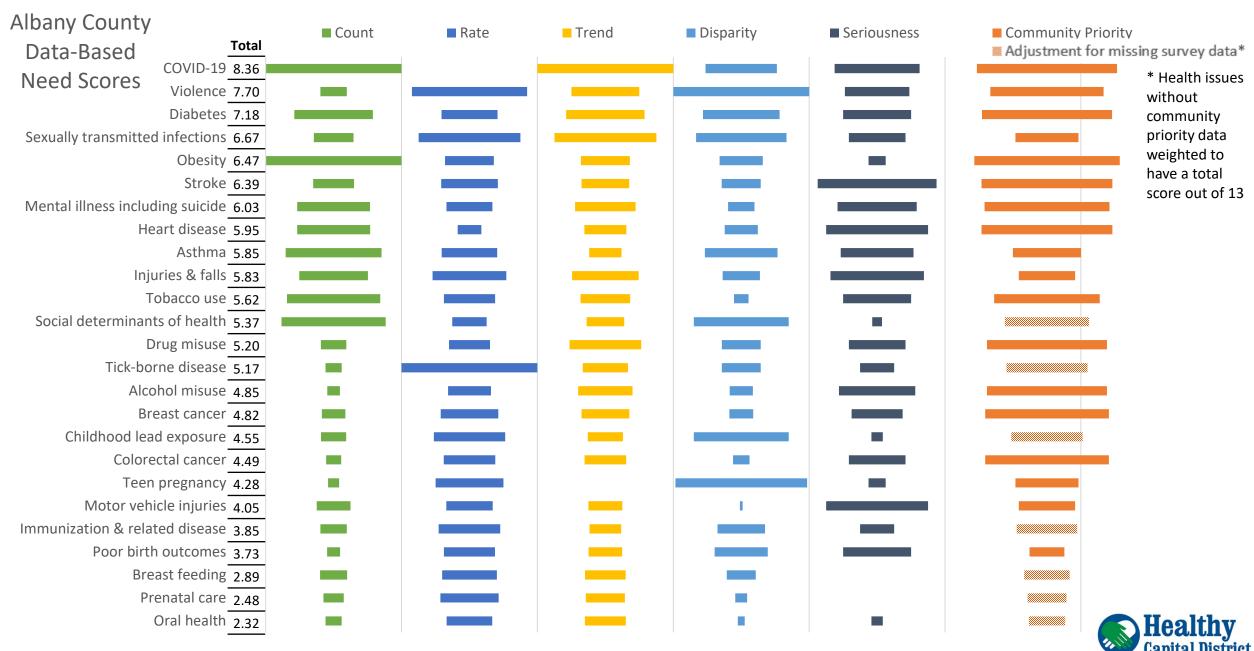


\* Health issues with missing data were weighted to have a total score out of 13

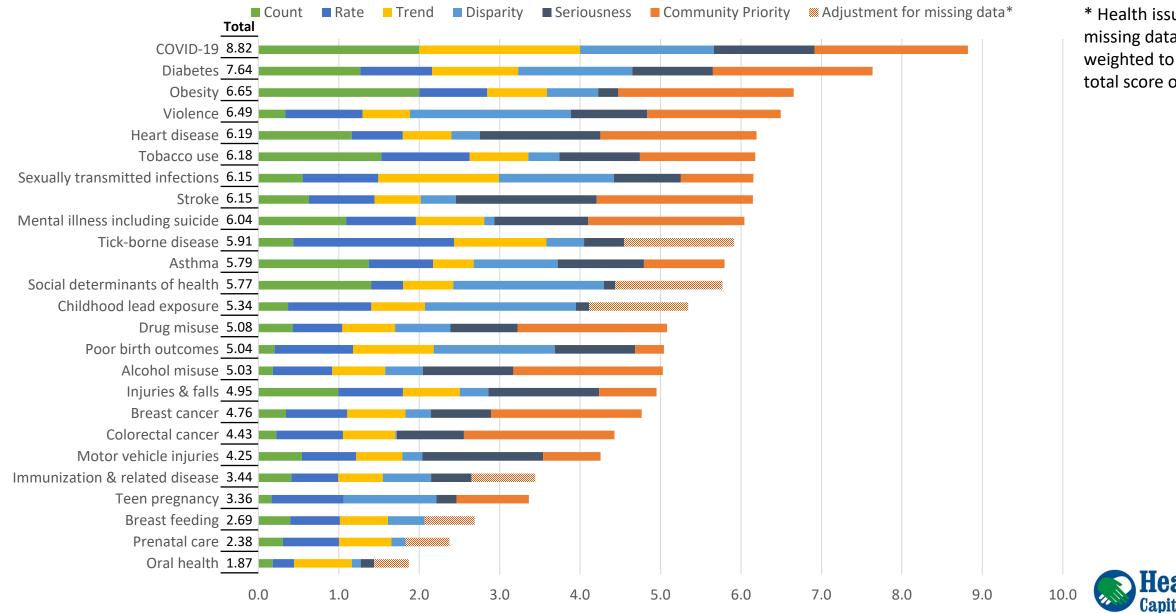


Get Covered . Find Care . Stav Healthy

#### Appendix:



#### Rensselaer County - Data-based Need Score (out of 13)



\* Health issues with missing data were weighted to have a total score out of 13



Get Covered . Find Care . Stav Healthy

#### Appendix:

