Prioritization Process

Schenectady County Health Issue Ranking



Healthy Capital District Initiative November 15, 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

Need	Max Score	Score
Is this issue a major need in the community - Total number of cases	2	1.20
Is this issue worse in our region than throughout NY - Rates	2	0.99
Is this issue more common for some populations - Disparities	2	1.02
Is this issue getting better or worse - Trend	2	1.15
How serious ly does this issue threaten mortality	2	1.00
Is this issue a priority for the community based on the survey	3	1.87
Other considerations about the data	2	
Community Partner considerations	3	
Total Need Score	18	7.23

	Max Score	Score	Contribution to Total Score
Total Organization-based Score	14		40%
Total Data-based Score	10	5.36	29%
Total Community Partner-based Score	11	1.87	31%
Total Priority Score	35	7.23	

Need Score

18 Total Points

13 Points based on data								
2 – Count • Absolute Number	 2 – Rate Compared to NYS, excl. NYC, rate 	2 – Trend • <u>(Slope)×(Years of Data)</u> (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					



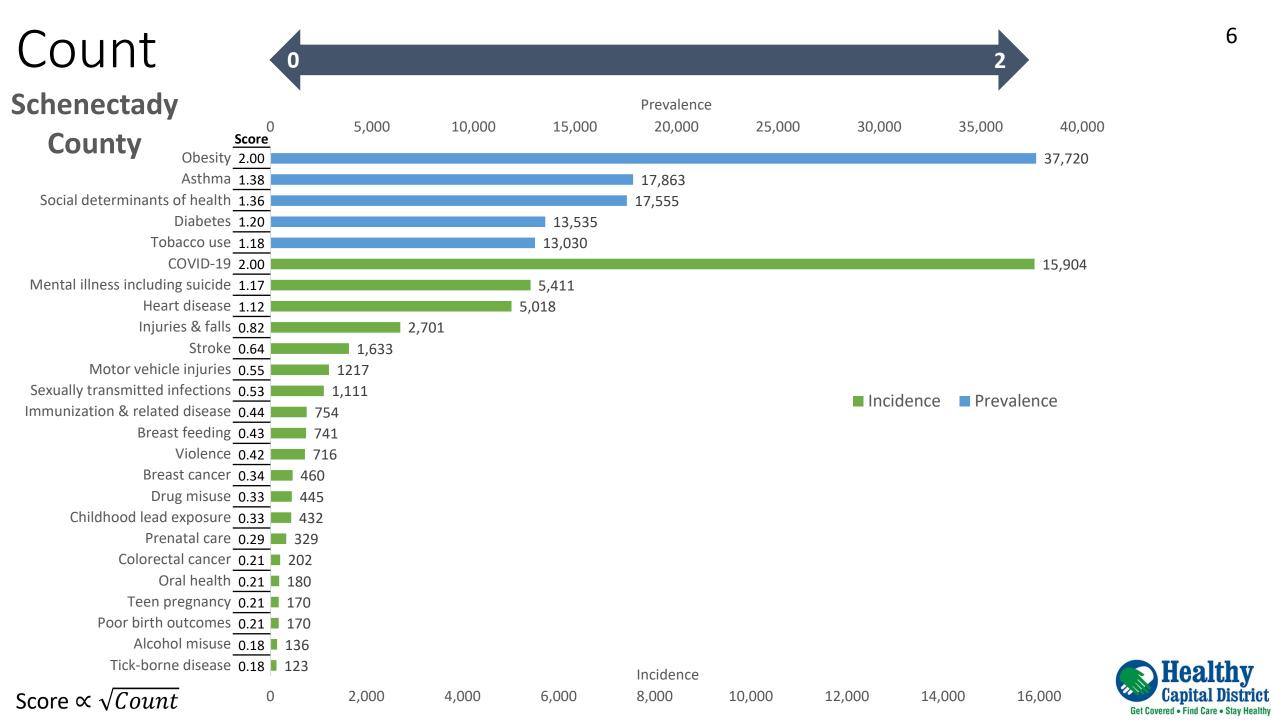
Health Issue & Measure Selection

- 25 Health Issues and around 140 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	Tick-borne disease
23	Immunization & related disease
24	Social Determinants of Health
25	Oral Health

		Measures (n)							
#	Health Issue	Count	Rate	Disparities	Trend	Seriousness	Community Priority		
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	Tick-borne disease	1	3	0	3	3	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		
	Tota	al 25	97	40	93	98	803		





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

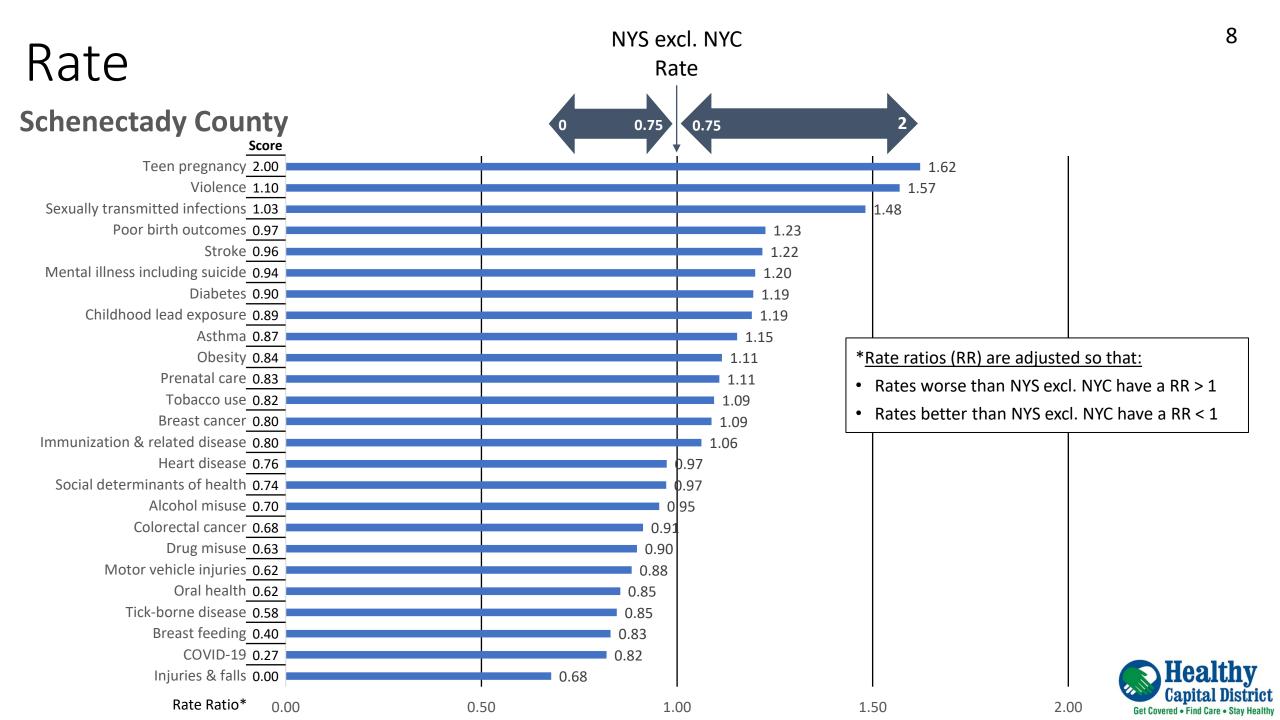
*Rate ratios (RR) are adjusted so that:

- Rates worse than NYS excl. NYC have a RR > 1
- Rates better than NYS excl. NYC have a RR < 1

• Example: Stroke

		Schenectady	NYS excl.		Average
Health Measure	Year	County	NYC	Rate Ratio	Rate Ratio
Age-adjusted cerebrovascular disease (stroke) hospitalization rate per 10,000	2016-2018	26.8	21.1	1.27	1.22
Age-adjusted cerebrovascular disease (stroke) mortality rate per 100,000	2016-2018	32.1	27.6	1.16 -	1.22





Top 10 Rates – Worse than NYS excl. NYC

Health Measure	Health Issue	Data Years	Rate Ratio	$=\left(\frac{\text{County Rate}}{\text{NYS excl. NYC Rate}}\right)$
Age-adjusted congestive heart failure mortality rate per 100,000	Heart disease	2016-2018	2.24	
Violent crime rate per 100,000	Violence	2018	2.16	
Teen pregnancy rate per 1,000 females aged <18 years	Teen pregnancy	2016-2018	1.98	
Index crime rate per 100,000	Violence	2018	1.74	
Gonorrhea diagnoses, age-adjusted rate per 100,000 population	Sexually transmitted infections	2018	1.70	
Age-adjusted assault hospitalization rate per 10,000	Violence	2016-2018	1.62	
Age-adjusted oral cavity and pharynx cancer mortality rate per 100,000	Tobacco use	2015-2017	1.52	
Age-adjusted Newly diagnosed HIV case rate per 100,000	Sexually transmitted infections	2016-2018	1.52	
Firearm assault-related hospitalizations, rate per 10,000 population	Violence	2017	1.50	
Age-adj. mental disease/disorder primary dx hospitalization rate per 10,000	Mental illness including suicide	2016-2018	1.50	



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

*Trends adjusted so that:

- Improving trends < 0
- Worsening trends > 0

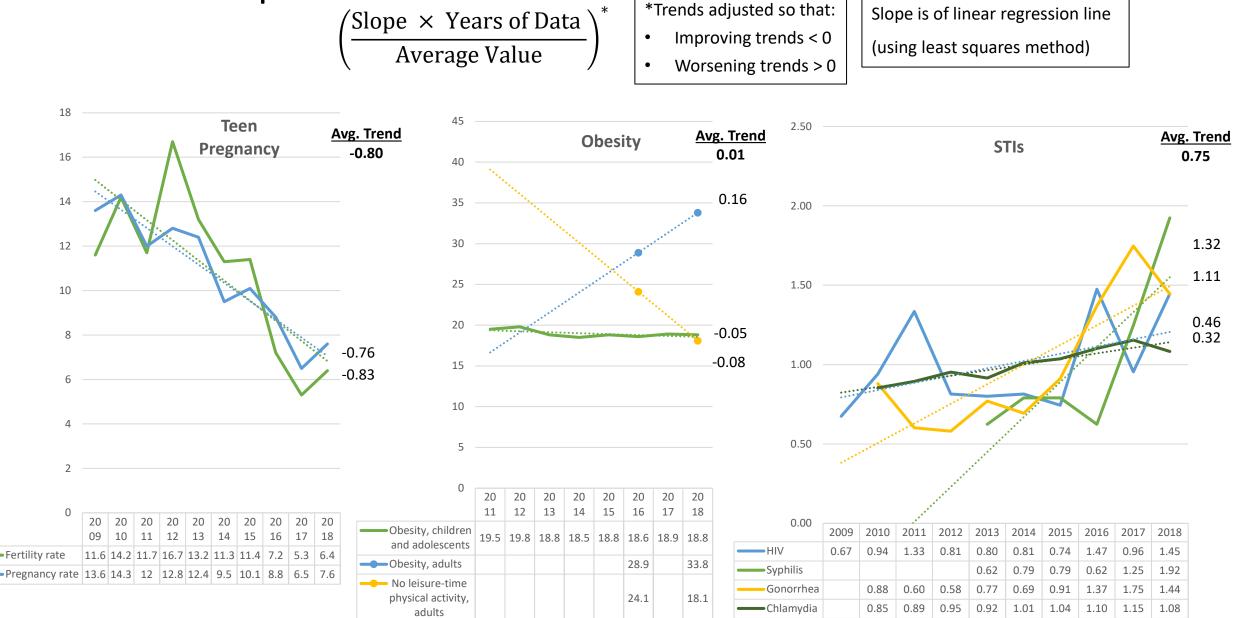
(using least squares method)

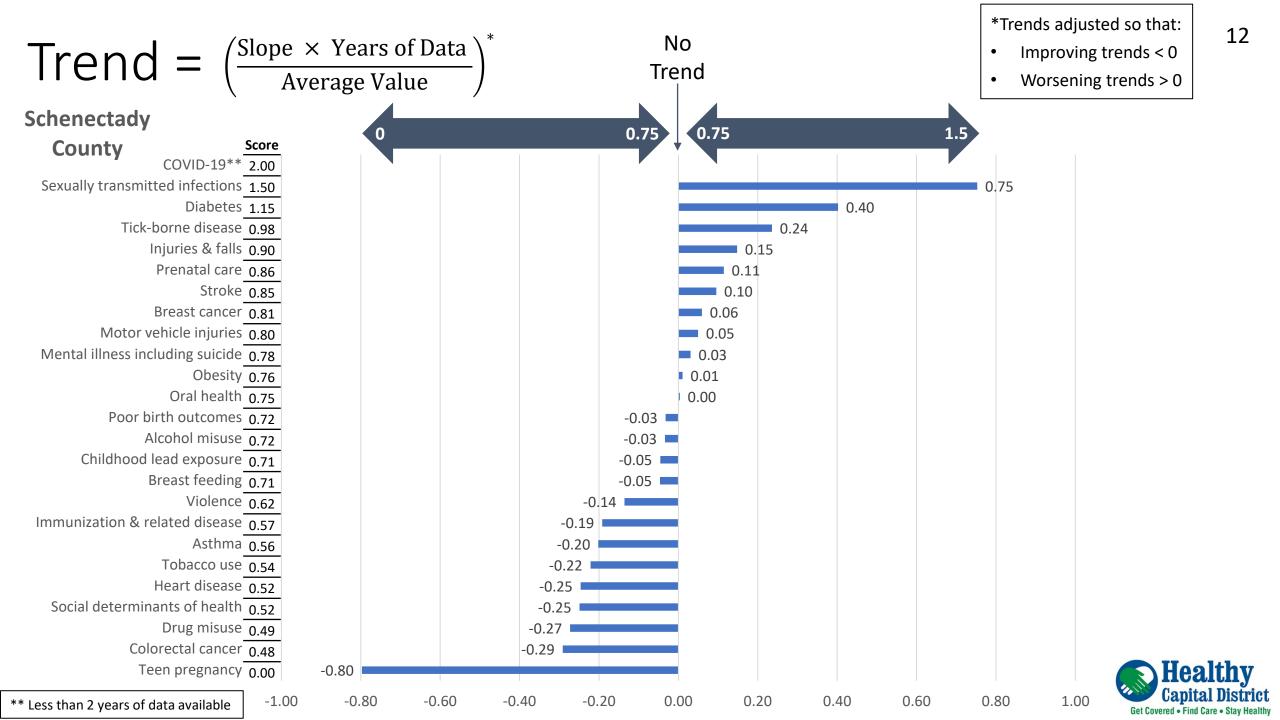
• Example: Teen Pregnancy

Health Measure	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Trend	Average Trend
Teen fertility rate per 1,000 (ages 15-17) (births/female population)	11.6	14.2	11.7	16.7	13.2	11.3	11.4	7.2	5.3	6.4	-0.83	0.90
Teen pregnancy rate per 1,000 females aged <18 years	13.6	14.3	12	12.8	12.4	9.5	10.1	8.8	6.5	7.6	-0.76	-0.80



Trend Examples





Top 10 Worsening Trends

	Health Measure	Health Issue	Trend =
1	Opioid overdose deaths (any opioid), crude rate per 100,000 population	Drug misuse	3.78
2	Early syphilis case rate per 100,000	Sexually transmitted infections	1.32
3	Suicide mortality among youth, rate per 100,000, aged 15-19 years	Mental illness including suicide	1.29
4	Potentially preventable diabetes short-term complications hospitalization rate per 10,000 - Aged 18 years and older	Diabetes	1.08
5	Gonorrhea diagnoses, age-adjusted rate per 100,000 population	Sexually transmitted infections	0.96
6	Anaplasmosis incidence	Tick-borne disease	0.89
	Hospitalizations due to falls among adults, rate per 10,000 population, aged 65+ years	Injuries & falls	0.50
8	Caries (cavities) outpatient visit rate per 10,000 - Aged 3-5 years	Oral health	0.49
9	Age-adjusted diabetes hospitalization rate per 10,000 (primary diagnosis)	Diabetes	0.47
10	Age-adjusted cirrhosis hospitalization rate per 10,000	Alcohol misuse	0.36

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

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

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

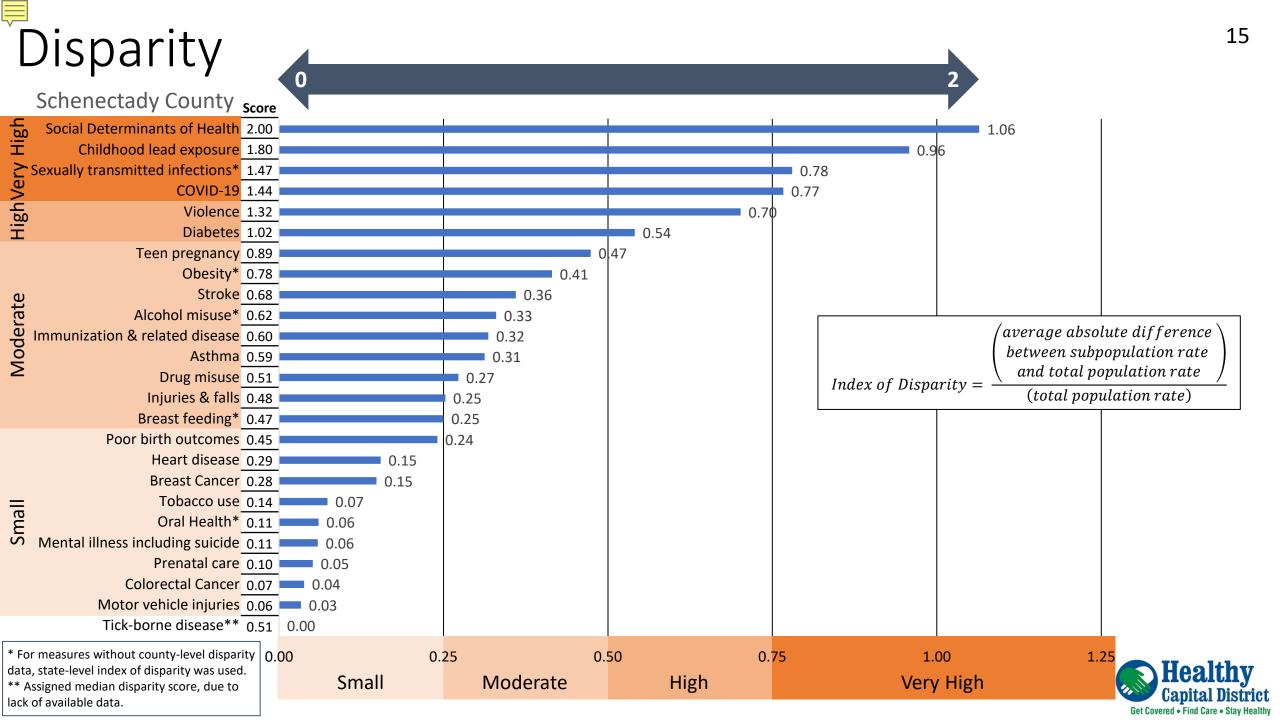


Index of Disparity

• Example: COVID-19

	Non-Hispanic				Total		
Health Indicator	White	Black	Asian/PI	Hispanic	Population		
Age-Adjusted COVID-19 Death Rate per 100,000 population	78.3	142.9	284.4	68.1	91.6		
					Inder	of Disparity	
Absolute Difference between rates in race/ethnicity groups and total population	13.3	51.3	192.8	23.5	Index of Disparit		
						subpopulation rate al population rate	
Average Absolute Difference – COVID-19 Death Rate	70.2			<u>`</u>	population rate)		
					. 7().2	
Index of Disparity – COVID-19 Death Rate		0	.77		92	$\frac{1}{1.6} = 0.77$	





Top 10 Measures of Disparity

	Health Measure	Health Issue	Index of Disparity
1	Percentage of families below poverty (2014-2018)~	Social Determinants of Health	1.88
2	Potentially preventable diabetes short-term complications hospitalization rate per 10,000 population - Aged 18+ Years++	Diabetes	0.85
3	Age-Adjusted COVID-19 Death Rate per 100,000 population	COVID-19	0.82
4	Assault-related hospitalizations	Violence	0.70
5	Obesity	Obesity	0.63
6	Diabetes (primary diagnosis) hospitalizations per 10,000 population, age- adjusted++	Diabetes	0.62
7	Percentage of premature deaths (< 75 years)		0.55
8	Cirrhosis Hospitalizations	Alcohol misuse	0.49
9	Teen pregnancies per 1,000 females aged under 18 years	Teen pregnancy	0.47
10	Asthma hospitalizations per 10,000 population, aged 0-17 years++	Asthma	0.44



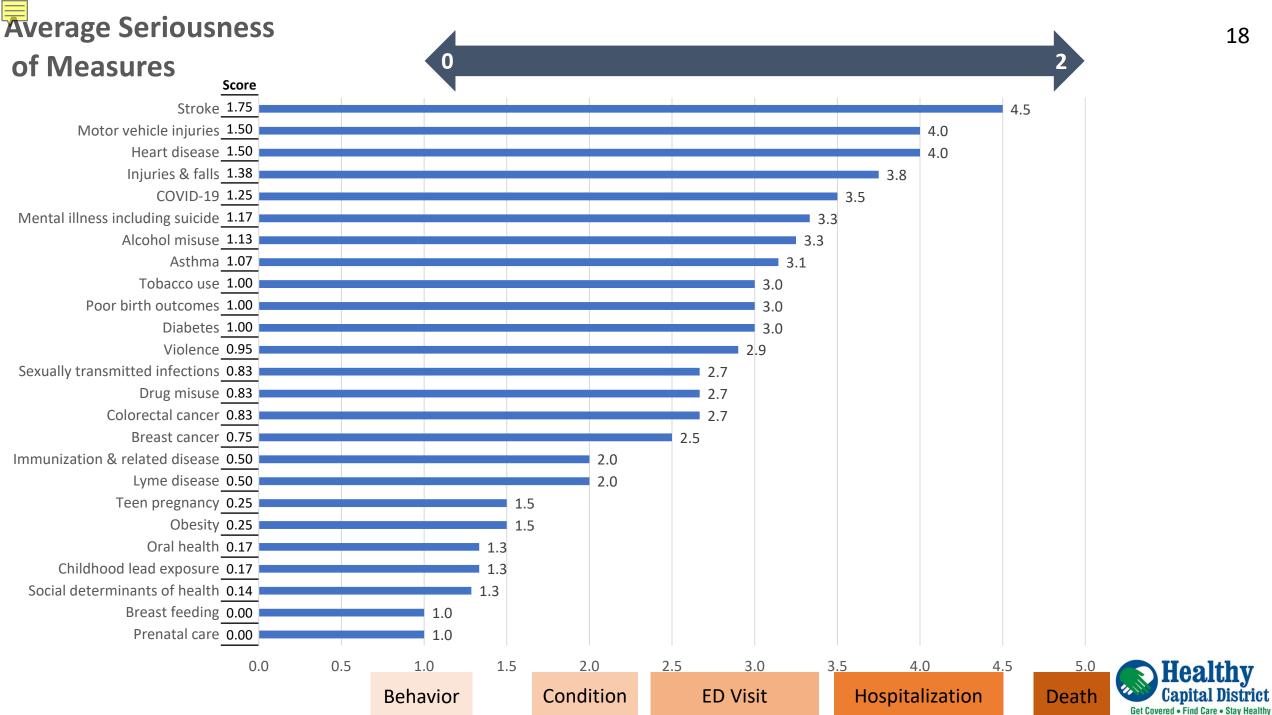
Seriousness

• Example: Stroke

Health Measure	Seriousness	5
Age-adjusted cerebrovascular disease (stroke) hospitalization rate per 10,000	4	
Age-adjusted cerebrovascular disease (stroke) mortality 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





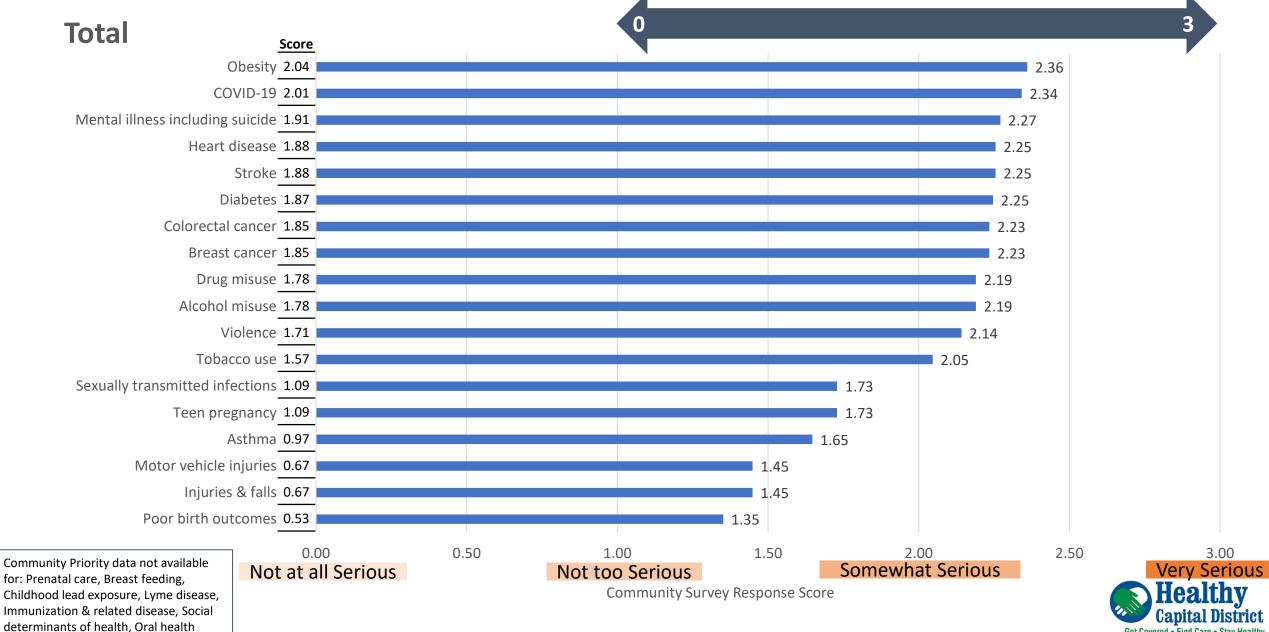
Community Priority Scoring Example

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		

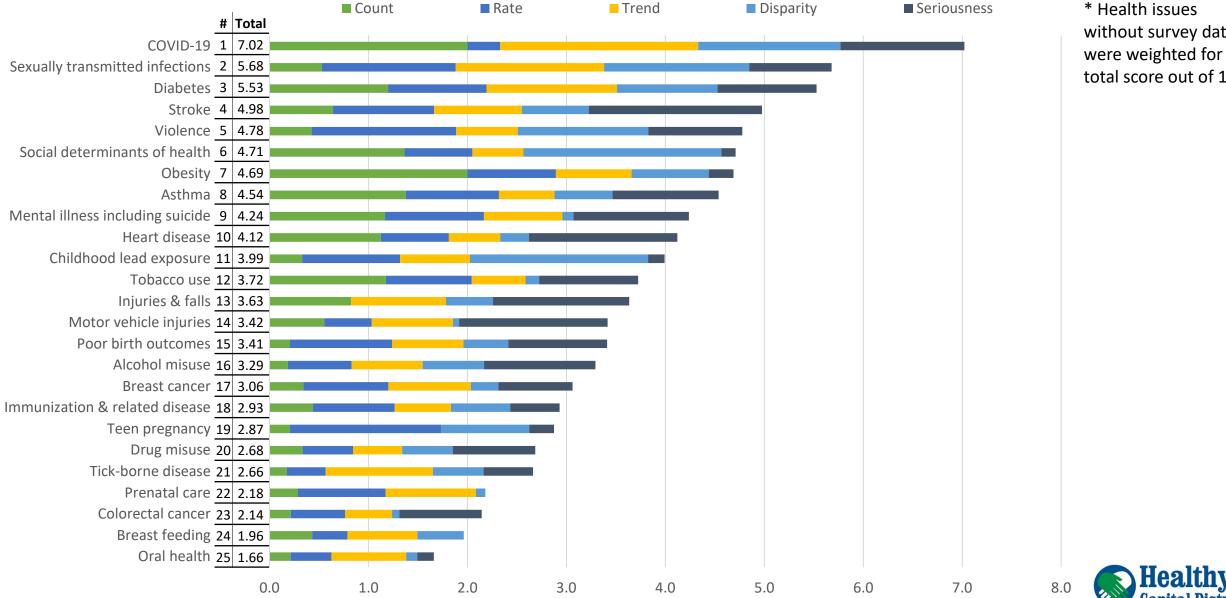


Ę Community Priority – Based on Survey Results



Get Covered • Find Care • Stav Healthy

Data-based Score (out of 10)



without survey data were weighted for a total score out of 13

Get Covered • Find Care • Stav Healthy

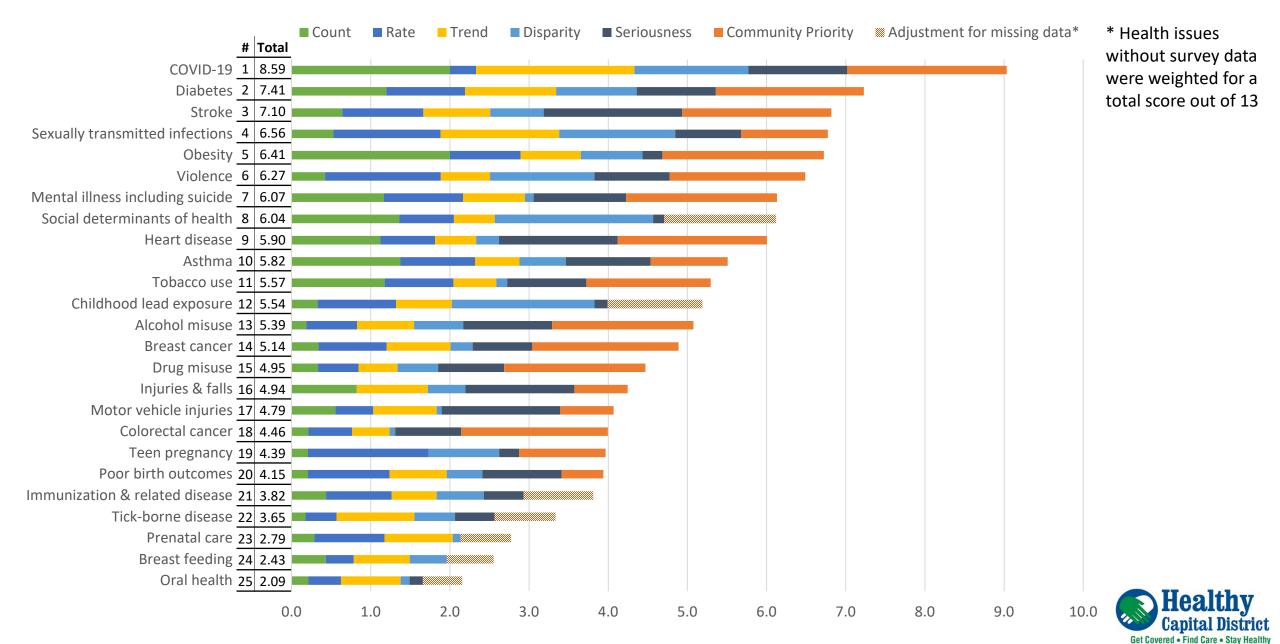
Data-Based Scores



* Health issues without survey data weighted for a total score out of 13



Data-based Need Score (including Community Priority, out of 13)



Data-Based Need Scores Incl. Community Priority

Inci. Community Priority			- T			
# Total	Count	Rate	Trend	Disparity	Seriousness	Community Priority Modulation Adjustment for missing survey data*
COVID-19 <u>1</u> 8.59						* Health issues
Diabetes 2 7.41						without survey
Stroke <u>3</u> 7.10						data weighted
Sexually transmitted infections 4 6.56						for a total score
Obesity 5 6.41						out of 13
Violence 6 6.27						
Mental illness including suicide 7 6.07						
Social determinants of health 8 6.04						
Heart disease 9 5.90				-		
Asthma 10 5.82						
Tobacco use 11 5.57						
Childhood lead exposure 12 5.54						
Alcohol misuse 13 5.39						
Breast cancer 14 5.14				-		
Drug misuse 15 4.95						
Injuries & falls 16 4.94						
Motor vehicle injuries 17 4.79				1.1.1		
Colorectal cancer 18 4.46	-		_	1		
Teen pregnancy 19 4.39						
Poor birth outcomes 20 4.15	-					
Immunization & related disease 21 3.82						
Tick-borne disease 22 3.65	-					
Prenatal care 23 2.79						
Breast feeding 24 2.43						
Oral health 25 2.09						Healthy
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						Get Covered • Find Care • Stay Healthy