Appendix C: Data Report Card

For the community health assessment data from various dashboards was collected to understand the potential health and community needs. The tables below present the latest data as well as trends from the baseline data point which varies depending on the data and data source.

The initial phase of our 2023 community assessment collected data on health, community and environmental characteristics that may impact our community. The impacts of these indicators on our health and well-being can be both positive and negative. The indicators compiled below come from various data sources and dashboards as they are available. Indicator points marked with an "M" indicate that there is a corresponding neighborhood map with data at the census tract level for Virginia Beach. Not all indicators are available for comparison at the neighborhood level. Zip codes are shown to orient the user and help identify areas of need. Indicators that were highlighted in the 2016-2017 Community Health Assessment and Community Health Improvement Plan are highlighted in this table. The areas of priority from the 2016-2017 CHA/CHIP are- access to health services, healthy aging, healthy behaviors, and mental and behavioral health.

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:1 Virginia Beach Health District- Health Status

Virginia Beach Health District Health Status	2014 Estimate	2017 Estimate	2020 Estimate	% Change from (2014)	Desired Direction	Compared to VA	Virginia 2020 Estimate
[M*] **Physical health not good** ≥ 14 days among adults, Percent estimated prevalence of population ≥18 years [1, 1a]	9.6%	10.3%	8.2% 🟢		↓	🔺	7.8%
[M] **Mental health not good** ≥ 14 days among adults (over ≥ 18 years old), Percent [1,1a]	9.8%	11.7%	13.7% 🔴		↓	🔻	14.7%
Life Expectancy [@]		80.4^	80.2^		↑	🔺	79.1
Premature deaths (All causes)- Years of potential life lost (YPLL), Per 100,000 population [3]	5,574	5,718	6,178 🔴		↓	🔻	6,707
Premature mortality, Age-adjusted death rate per 100,000 population under age 75 years old [2,3,^]	280	290	300 🔴		↓	🔻	330

^Premature age-adjusted mortality estimate (2018-2020) for VA and Virginia Beach. ^^ 2020 estimate (2016-2019), 2017 estimate (2014-2017), 2014 estimate (2010-2013). [@] 2020 estimate based on (2018-2020) data, 2017 estimate based on (2015-2017) data

Table C:2 Virginia Beach Health District- Health Status- Maternal and Child Health

Virginia Beach Health District Health Status	2012-2014	2015-2017	2018-2020	% Change from (2014)	Desired Direction	Compared to VA	Virginia 2020 Estimate
Total live births [2]	18,361	17,688	16,401 🟢			–	291,926
Infant deaths [2]	99	90	93 🟢		↓	–	1,679
Infant Mortality, Rate per 1,000 live births [*, 2]	4.79	5.09	5.67 🔴		↓	🔻	5.75
Low birth weight, Percent of total births [*,2]	7.8%	8.1%	8.5% 🔴		↓	🔺	8.30%
Preterm births, Percent of total live births [2]	9.5%	9.7%	10.4% 🔴		↓	🔺	9.63%
Child mortality, Rate per 100,000 Children (≤ 18 years old) [*, 3,^^]	–	50^	50^ ⚪		↓	–	50

Detailed below by race and ethnicity as available. ^ Comparison made between 2015--2017 and 2018-2020 rates.

Source- [1] CDC Places; [1a] BRFSS Prevalence & Trends Explore by Location (Virginia Estimates); [2] Virginia Well-Being-CDC National Vital Statistics System; [3] County Health Rankings.

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:2 Virginia Beach Health District- Health Status- Maternal and Child Health

Virginia Beach Health District Health Status	2012-2014	2015-2017	2018-2020	% Change from (2014)	Desired Direction	Compared to VA	Virginia 2020 Estimate
Maternal Mortality, Rate per 100,000 live births [2,^]	–	28.27	36.58	-	↓	▼	47.94
Fertility Rate, live births per 1,000 females 15-44 years[3]	63.8	62.3	58.7 🟢		↓	▲	57.5
Teen pregnancy, Rate per 1,000 females 15-19 years [2]	30.9	22.5	18.5 🟢		↓	▲	17.99
Neonatal Abstinence Syndrome (NAS), Rater per 1,000 birth hospitalizations [2]	2.70	2.90	3.47 🔴		↓	▼	6.57
Mothers with Late or No Prenatal Care, Percent of total live births [2]	2.1%	2.9%	2.9% 🔴		↓	▼	4.57%
Maternal Opioid Use Disorder (OUD), Rate per 1,000 delivery hospitalizations [2]	–	–	2.82	-	↓	▼	4.72
Smoking during Pregnancy, Percent of total live births [2]	3.7%	3.8%	3.8% 🔴		↓	▼	5.2%
Child mortality, Rate per 1,000 Children (1-9 years) [2]	0.18	0.15	0.17 🟢		↓	▲	0.15

Source- [2] Virginia Well-Being-CDC National Vital Statistics System; [3] County Health Rankings.

Table C:2a Virginia Beach Health District- Health Status- Maternal and Child Health- Detailed

Virginia Beach Health District Health Status- Detailed Indicators	2012-2014	2015-2017	2018-2020	% Change from (2014)	Desired Direction	Compared to VA	Virginia 2020 Estimate
Infant Mortality by Race/Ethnicty, Rate per 1,000 live births[2]	**4.79**	**5.09**	**5.67** 🔴		↓	▼	5.75
Black	10.34	10.39	9.30 🟢		↓	▼	10.17
Asian	1.7*	3.32*	5.43*		↓	▲	3.41
Hispanic	1.73*	7.13*	8.67		↓	▲	5.46
White	3.48	3.60	4.43 🔴		↓	▼	4.64
Non-Hispanic	5.05	4.87	5.29 🔴		↓	▼	5.8

* Rates with asterik based on <12 cases and should be considered unstable.

Source- [2] Virginia's Plan for Well-Being-CDC National Vital Statistics System.

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:2a Virginia Beach Health District- Health Status- Maternal and Child Health- Detailed

Virginia Beach Health District Health Status- Detailed Indicators	2012-2014	2015-2017	2018-2020	% Change from (2014)	Desired Direction	Compared to VA	Virginia 2020 Estimate
Low birth weight, Percent of total births [6]	**7.8%**	**8.1%**	**8.5%** 🔴		↓	🔺	8.3%
Black	12.4%	13.0	14.4% 🔴		↓	🔺	13.6%
Other	8.0%	8.4	8.2% 🔴		↓	🔺	7.6%
White	6.2%	6.5	6.5% 🔴		↓	🔻	6.7%
Child mortality, Rate per 100,000 Children (≤ 18 years old) [3,^^]	–	50^	50^ ⚪		↓	–	50
Asian	–	–	40	-	↓		
Black	–	70	70	-	↓		
Hispanic	–	40	60	-	↓		
White	–	30	40	-	↓		

Source- [3] County Health Rankings; [6] Virginia Department of Health- Statistical Reports and Tables of Vital Records.

Table C:3 Virginia Beach Health District- Health Factors- Health Risky Behaviors

Virginia Beach Health District Health Factors	2014 Estimate	2017 Estimate	2020 Estimate	% Change from (2014)	Desired Direction	Compared to VA	Virginia 2020 Estimate
[M] Current **smoking** among adults, Percent estimated prevalence of population ≥18 years [1,1a]	18.6%	17.1%	14.5% 🟢		↓	🔺	13.8%
[M] **No leisure physical activity** among adults, Percent estimated prevalence of population ≥18 years [1]	21.2%	23.7%	21.3% ⚪		↓	🔺	20.9%
[M] **Sleeping < 7 hours** among adults, Percent estimated prevalence of population ≥18 years [1]	36.1%	37.3%	34.3% 🟢		↓	🔺	33.7%

Source- [1] CDC Places Behavioral Risk Surveillance System Data; [1a] BRFSS Prevalence & Trends (VA estimates, 2020).

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:3 Virginia Beach Health District- Health Factors- Health Risky Behaviors

Virginia Beach Health District Health Factors	2014 Estimate	2017 Estimate	2020 Estimate	% Change from (2014)	Desired Direction	Compared to VA	Virginia 2020 Estimate
[M] **Binge drinking** (more than 2 drinks) among adults, Percent estimated prevalence of population ≥18 years[1]	17.1%	19.1%	17.5% 🔴		↓	▲	15.8%
Teen pregnancy, Rate per 1,000 Females ages 15-19 [2]	26.7	20.9	17.3 🟢		↓	▪	17.3
Alcohol-Impaired driving deaths, Percent of motor vehicle crash deaths with involved alcohol [3][^]	33.0%	39.0%	33.0% ⚪		↓	▲	30.0%

[^]Data for 2014 from 2010-2014 estimate, 2017 from 2013-2017 estimate, 2020 from 2016-2020

Source- [3] County Health Rankings; [1] CDC Places Behavioral Risk Surveillance System Data; [2] Virginia's Plan for Well-Being-CDC National Vital Statistics System.

Table C:3a Virginia Beach Health District- Health Factors- Health Risky Behaviors- Sexually Transmitted Infections

Virginia Beach Health District Health Factors	2014 Estimate	2017 Estimate	2020 Estimate	% Change from (2014)	Desired Direction	Compared to VA	Virginia 2020 Estimate
Chlamydia Incidence, Rate of new cases diagnosed per 100,000 population[7]	519.5	636.1	615.6[#] 🔴		↓	▲	474.6[#]
Gonorrhea Incidence, Rate new cases diagnosed per 100,000 population[7]	122.1	180.0	205.1[#] 🔴		↓	▲	176.3[#]
Primary and Secondary Syphilis, Rate new cases diagnosed per 100,000 population[7]	2.5	4.7	7.2[#] 🔴		↓	▼	8.1[#]
Early Non-Primary, Non-Secondary Syphilis, Rate cases diagnosed per 100,000 population[7]	5.8	17.3	7.8[#] 🔴		↓	▲	7.5#
New HIV diagnoses, Rate new cases diagnosed per 100,000 population ≥13 years [7]	17.6	19.6	9.3[#] 🟢		↓	▲	8.5[#]
HIV prevalence, rate of HIV diagnoses per 100,000 population ≥13 years[7]	260.4	282.2	303.1[#] 🔴		↓	▼	327.1[#]

Source- [7] CDC- NCHHSTP Atlas Plus.

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:4 Virginia Beach Health District- Health Factors- Health Behaviors- Preventive Measures

Virginia Beach Health District Health Factors	2014 Estimate	2017 Estimate	2020 Estimate	% Change from (2014)	Desired Direction	Compared to VA	Virginia 2020 Estimate
Health Behaviors- Preventative Measures							
[M] **Visits to doctor** or routine check within past year among adults, Percent estimated prevalence of population ≥18 years[1]	73.6%	72.1%	77.0% 🟢		↑	▲	75.80%
[M] **Visits to dentist/dental clinic** within past year among adults, Percent estimated prevalence of population ≥18 years[1]	71.6%	74.1%	70.5% 🔴		↑	▲	69.60%
[M] **Mammography** use in last year among women, Percent estimated prevalence of population 50-74 years[1]	81.1%	79.9%	79.1% 🔴		↑	▲	72.9%
[M] **Papanicolau (Pap) smear** use or cervical screening in last year among women, Percent estimated prevalence of female population 21-65 years[1]	86.0%	80.3%	85.0% 🔴		↑	▲	79.7%
[M] **Colorectal cancer screening** (fecal occult blood test, sigmoidoscopy or colonoscopy) in last year among adults, Percent estimated prevalence of population 50-75 years[1]	72.3%	72.8%	75.8% 🟢		↑	▲	75.3%
[M] **Preventive services** in last year among older **men**, Percent estimated prevalence of male population ≥ 65 years[1,*#]	36.2%	43.9%	58.4% 🟢		↑	–	% –
[M] **Preventive services** in last year among older **women**, Percent estimated prevalence of female population ≥65 years[1]	37.3%	43.1%	47.2% 🟢		↑	–	% –
[M] **Cholesterol screening** among adults, Percent estimated prevalence of population ≥18 years[1]	79.7%	80.7%	88.1.% 🟢		↑	▲	87.7%
Diabetes screening among adults, Percent estimated prevalence of population ≥18 years in the past 3 years[1]	57.6%	70.3%	55.6% 🔴		↑	▲	52.8%
Taking high blood pressure medication among adults, Percent estimated prevalence of population ≥18 years[1]	60.9%	58.3%	59.9% 🔴		↑	–	%a –

[*#]Core set of preventive services include: Flu shot, PPV shot, colorectal cancer screening.

Source- [1] CDC Places Behavioral Risk Surveillance System Data.

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Appendix C- 7| Virginia Beach Community Health Needs Assessment

Table C:4 Virginia Beach Health District- Health Factors- Health Behaviors- Preventive Measures

Virginia Beach Health District Health Factors	2014 Estimate	2017 Estimate	2020 Estimate	% Change from (2014)	Desired Direction	Compared to VA	Virginia 2020 Estimate
Adequate Prenatal care (began in the first trimester) among pregnant mothers, Percent of births [5,4]	–	84.1%	85.5% ●		↑	▲	80.3%[40]
Access to physical activity opportunities, Percent of population living within 1 mile from a recreational facility [3]			97.0%	-	↑	▲	83.0%

[%] BRFSS data is not available at the State level. [%a]- State level data is not available as age-adjusted indicator. Indicator is not used for comparison.

Source- [3] County Health Rankings; [5] City Health Dashboard- Virginia Beach; [4] Peristats- March of Dimes for Virginia.

Table C:5 Virginia Beach Health District- Health Factors- Access to Care

Virginia Beach Health District Health Factors	2014 Estimate	2017 Estimate	2020 Estimate	% Change from (2014)	Desired Direction	Compared to VA	Virginia 2020 Estimate
Uninsured, Percent of population < 65 years without health insurance [16]	11.2%	8.9%	8.1% ●		↓	▼	8.6%
Uninsured Adults, Percent of population 18 to 64 years without health insurance [16]	13.4%	10.9%	9.6% ●		↓	▼	10.1%
Uninsured Children, Percent of population <=18 years without health insurance [16]	5.5%	3.9%	3.9% ●		↓	▼	4.40%

Source- [16] Small Area Health Insurance Estimates (SAHIE) 2028-2020

Virginia Beach Health District Health Factors	2014 Estimate	2017 Estimate	2020 Estimate	% Change from (2014)	Desired Direction	Compared to VA	Virginia 2020 Estimate
Primary Care Physicians, Ratio of 1 primary care physican per population [3,17]	*1:1,130*	*1:1,350*	*1:1,350* ●		↓	▼	1:1,320
Dentists, Ratio of 1 dentist per population [3,17]	*1:1,140*	*1:1,320*	*1:1,270* ●		↓	▲	*1:1,350*
Preventable hospital stays that could have been prevented by outpatient treatment, Rate per 100,000 population enrolled in Medicare [3, 18]	*4,332*	*4,637*	*3,249* ●		↓	▲	*2,902*

Source- [3] County Health Rankings; [17] US Department of Health and Human Services (HRSA) Area Health Resources File/American Medical Association; [18] Centers for Medicare & Medicaid Services Office of Minority Health's Mapping Medicare Disparities (MMD) Tool.

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:5 Virginia Beach Health District- Health Factors- Access to Care

Virginia Beach Health District Health Factors	2014 Estimate	2017 Estimate	2022 Estimate	% Change from (2014)	Desired Direction	Compared to VA	Virginia 2020 Estimate
Mental Health Providers[^], Ratio of one mental health provider per population [3,17]	-	-	*1:450*	-	↓	=	*1:450*
Other primary care providers, Ratio of 1 other primary care provider registered per population^ [3,17]	-	-	*1:850*	-	↓	▼	*1:860*

^Other primary care providers include nurse practitioners, physician assistants, and clinical nurse specialists providing routine and preventitive care.

Source- [3] County Health Rankings; [17] US Department of Health and Human Services (HRSA) Area Health Resources File/American Medical Association; [18] Centers for Medicare & Medicaid Services Office of Minority Health's Mapping Medicare Disparities (MMD) Tool.

Table C:6 Virginia Beach Health District- Health Factors- Access to Care- Vaccinations

Virginia Beach Health District Health Factors	2020^*	2021^*	2022^*	% Change from (2014)	Desired Direction	Compared to VA	Virginia 2020^ Estimate
Access to Care- Clinical Care Vaccinations							
Flu Vaccinations, Percent of Medicare enrollees that had an annual fee-for-service (FFS) vaccination [3, 18]	*48%*	*48%*	*49%* ●		↑	▼	*53%*
COVID-19 Vaccinations, Doses administered	4,525	632,958	162,638 ●		↑		
Completed first series, Percent of est. population [19, 20]	-	58.9%	63.0% ●		↑		
including **federal doses**		67.2%	71.3% ●		↑		
Bivalent booster, Percent of estimated population [19,20]	-	-	12.4%	-	↑		

^*2020 data begin December 2020, 2021 data from Jan 1-Dec 31 2021, 2022 data from Jan 1-Dec 31 2022, 2023 data Jan 1- June 30, 2023. **Rate ratio calculations from Dec 2020- Jun 30 2023.

Source: [3] County Health Rankings; [18] Centers for Medicare & Medicaid Services Office of Minority Health's Mapping Medicare Disparities (MMD) Tool; [19] Virginia Department of Health, VIIS (Virginia Immunization System). Data not available for this duration directly from VDH public dashboard. [20] NCHS Bridge Race Population Estimates 2020.

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:7 Virginia Beach Health District- Health Outcomes- Chronic Conditions

Virginia Beach Health District Health Outcomes	2014 Estimate	2017 Estimate	2020 Estimate	% Change from Baseline (2014)	Desired Direction	Compared to VA	Virginia 2020 Estimate
Arthritis among adults, Percent estimated prevalence of population ≥18 years [1,2,4]	23.9%	22.5%	23.4% ⚪		↓	▼	24.5%
Asthma (current) among adults, Percent estimated prevalence of population ≥18 years[1,2,4]	8.6%	9.0%	9.5% 🟢		↓	🔺	8.5%
High blood pressure among adults,Percent estimated prevalence of population ≥18 years[1,2,4]	29.8%^	28.0%	29.1%^ ⚪		↓	▼	33.5%
High cholesterol among adults, Percent estimated prevalence of population ≥18 years[1,2,4]	34.0%^	30.1%	29.0%^ 🔴		↓	▼	32.7%
Cancer (excluding skin) among adults, Percent estimated prevalence of population ≥18 years[1,2]	5.8%	6.4%	5.9% 🟢		↓	–	–
Chronic kidney disease among adults, Percent estimated prevalence of population ≥18 years[1,2]	2.3%	2.6%	2.4% 🟢		↓	–	–
Chronic obstructive pulmanary disease (COPD) among adults, Percent estimated prevalence of population ≥18 years[1,2,4]	5.3%	4.9%	5.3% 🟢		↓	▼	5.8%
Coronary heart disease among adults, Percent estimated prevalence of population ≥18 years[1,2,4]	5.3%	4.9%	4.9% ⚪		↓	🔺	3.6%
Diabetes (diagnosed) among adults, Percent estimated prevalence of population ≥18 years[1,2,4]	6.8%	9.1%	10.0% 🟢		↓	▼	11.1%

Source- [2] Virginia's Plan for Well-Being, [1] CDC Places Behavioral Risk Surveillance System Data; [4] Center for Disease Control- 2020 Behavioral Risk Factor Surveillance System, July 6, 2021 (Weighted sample).

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:7 Virginia Beach Health District- Health Outcomes- Chronic Conditions- Prevalence

Virginia Beach Health District Health Outcomes	2014 Estimate	2017 Estimate	2020 Estimate	% Change from Baseline (2014)	Desired Direction	Compared to VA	Virginia 2020 Estimate
[M] **Obesity** (BMI > 29.9) among adults, Percent estimated prevalence of population ≥18 years[1,2,4]	29.5%	28.4%	32.7% ⚪		↓	▲	32.20%
[M] Adults who are **overweight** (BMI >25 <=29.9) or **obese** (BMI>29.9), Percent estimated prevalence of population ≥18 years[1,2,4]	68.3%	68.3%	70.3% ⚪		↓	▲	67.20%
[M] **Stroke**, Percent estimated prevalence of population ≥18 years^ [1,2,4]	2.5%	2.6%	2.5% ⚪		↓	▼	2.80%

Source- [2] Virginia's Plan for Well-Being, [1] CDC Places Behavioral Risk Surveillance System Data 2014, 2017, 2020; [4] Center for Disease Control- 2020 Behavioral Risk Factor Surveillance System, July 6, 2021 (Weighted sample).

Table C:7b Virginia Beach Health District- Health Outcomes- Chronic Conditions- Hospitalizations

Virginia Beach Health District Health Outcomes	2014 Estimate	2017 Estimate	2020 Estimate	% Change from Baseline (2014)	Desired Direction	Compared to VA	Virginia 2020 Estimate
Asthma Hospitalizations, Rate per 100,000 population[2]	–	–	530.3 ⚪		↓	–	
Diabetes hospitalizations, Rate per 100,000 population [2]	–	–	1,918.1 ⚪		↓	▼	1,989.0

Source- [2] Virginia's Plan for Well-Being.

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:7c Virginia Beach Health District- Health Outcomes- Chronic Conditions- Deaths

Virginia Beach Health District Health Outcomes	2014[^,*] Estimate	2017[^,*] Estimate	2020[^,*] Estimate	Statistically Different from Baseline[##]	Desired Direction	Compared to VA	Virginia 2020[^,*] Estimate
Breast cancer deaths rate[*,23,^*]	14.3	12.6	12.4	No Sig. Change	↓	▲	11.7
Cardiovascular disease deaths rate[*,23,^*,&]	186.2	189.3	199.2 ●		↓	▼	203.5
Colorectal cancer deaths rate[*,23,^*]	13.8	14.3	11.3	No Sig. Change	↓	▼	13.7
Cancer deaths rate[*,23,^*]	172.5	159.1	150.9 ●		↓	▼	151.0
COPD deaths rate[*,23,^*]	32.8	34.3	27.9 ●		↓	▼	34.4
Kidney diseases deaths rate[*,23,^*]	15.8	14.0	16.4	No Sig. Change	↓	▼	17.3
Chronic liver disease and cirrhosis deaths rate[*,23,^*]	8.4	9.4	10.4	No Sig. Change	↓	▪	10.4
Diabetes deaths rate[*,23,^*]	19.2	22.8	18.0	No Sig. Change	↓	▼	23.5
Premature Deaths, Years of potential life lost[2,^*]	5,574	5,702	6,178	--	↓	▼	6,707

[*]Age adjusted rates per 100,000 population. [^*]3 Year averaged estimates (Periods 2012-2014, 2015-2017, 2018-2020). [&]Cardiovascular disease includes diseases of the heart, cerebrovascular diseases and hypertensive and renal hypertensive disease. [##]Statistical significance calculated at the 95% confidence level.

Source- [23] Multiple Cause of Death, 1999-2020- CDC Wonder Extract- NVSS Mortality Data- National Center for Health Statistics.

Table C:8 Virginia Beach Health District- Health Outcomes- Infectious Diseases

Virginia Beach Health District Health Outcomes	2014 Estimate	2017 Estimate	2020 Estimate	% Change from Baseline (2014)	Desired Direction	Compared to VA	Virginia 2020 Estimate[#]
Tuberculosis, Rate per 100,000 [7]	2.2	1.6	1.5[#] ●		↓	▼	2.3

#Counts and data may not be fully realized due to COVID-19 Pandemic, % change not shown.

Soure- [7] CDC- NCHHSTP Atlas Plus.

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:9 Virginia Beach Health District- Health Factors- Health Outcomes-Respiratory Infectious Diseases

Virginia Beach Health District Health Outcomes	2020-2021*	2021-2022*	2022-2023*	% Change from Baseline (2014)	Desired Direction	Compared to VA	Virginia 2020-2023
COVID-19 Cases, Rate per 100,000 popuation[22]	7,397.5	12,383.0	5,989.0	⬤ -19.0%	↓	▼	7246.1
Adult COVID-19 cases, Rate per 100,000 popuation ≥ 18 years[22]	8,477.0	12,699.2	6,598.7	⬤ -22.2%	↓	▼	7,852.5
Pediatric COVID-19 cases, Rate per 100,000 child population <18 years [22]	3,471.5	11,148.3	3,816.1	⬤ 9.9%	↓	▼	5,046.1

*March 2020-March 2021, April 2021-March 2022, April 2021-March 2023 cases reported to VDH

Source- [22] *Virginia Department of Health, COVID-19 Dashboard, VEDSS data system.*

Table C:10 Virginia Beach Health District- Health Outcomes-Substance Abuse

Virginia Beach Health District Health Outcomes	2016-2020 Estimate	% Change from Baseline (2014)	Desired Direction	Compared to VA	Virginia 2016-2020 Estimate
Drug overdose deaths (all substances), Age-adjusted rate per 100,000 population	17.1	–	↓	▼	19.3
Alcohol-impaired driving deaths, Age-adjusted rate per 100,000 population	1.9	–	↓	▼	2.3

Source- [2] *Virginia's Plan for Well-Being-CDC National Vital Statistics System.*

Table C:10a Virginia Beach Health District- Health Outcomes-Substance Abuse

Virginia Beach Health District Health Outcomes	2020 Average Estimate	Desired Direction	Compared to VA	Virginia 2020 Estimate
Drug overdose hospitalizations, Rate per 100,000 population[2]	87.1	↓	▼	89.9
Substance Use Disorder (SUD) **hospitalizations**, Rate per 100,000 population[2]	51.86	↓	▼	75.1

Source- [2] *Virginia's Plan for Well-Being.*

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:10a Virginia Beach Health District- Health Outcomes-Substance Abuse

Virginia Beach Health District Health Outcomes	2016 Estimate	2018 Estimate	2020 Estimate	% Change from Baseline (2016)	Desired Direction	Compared to VA	Virginia 2020 Estimate
Reported Hepatitis C Virus (HCV) among adults, Rate per 100,000 population 18-30 years[8a]	90.5	63.2	50.8[#] ● -44%		↓	▼	81.3
Reported Hepatitis C Virus (HCV) among adults, Rate per 100,000 population >=18 years[8a]	148.2	116.7	78.1[#] ● -47%		↓	▼	105.3
Neonatal Abstinence Syndrome (NAS), Rate per 1,000 birth hospitalizations[8b]	3.6	4.9	4.0[#] ● 11%		↓	▼	5.7

Source- [8a] VDH- Drug Overdose and Related Health Outcomes-Hepatitis C; [8b] VDH- Drug Overdose and Related Health Outcomes- Neonatal Abstinence Syndrome (NAS).

Table C:10a Virginia Beach Health District- Health Outcomes-Substance Abuse

Virginia Beach Health District Health Outcomes	2014 Estimate	2017 Estimate	2020 Estimate	% Change from Baseline (2014)	Desired Direction	Compared to VA	Virginia 2020 Estimate
Opioid Overdose deaths, Age-Adjusted rate per 100,000 population[23]	10.4	16.2	16.7 ● 60.6%		↓	▼	20.6
Drug overdose ER visits, Average monthly rate per 100,000 population[8]	9.1^	13.5	15.7[#] ● 73%		↓	▼	18.0

^2015 Estimate; #Counts and data may not be fully realized due to COVID-19 Pandemic, % change not shown·

Source- [8] VDH- Drug Overdose and Related Health Outcomes- ED Visits; [23] Multiple Cause of Death, 1999-2020- CDC Wonder Extract- NVSS Mortality Data- National Center for Health Statistics.

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Appendix C- 14|Virginia Beach Community Health Needs Assessment

Table C:11 Virginia Beach Health District- Health Outcomes-Mental Health

Virginia Beach Health District Health Outcomes	2014 Estimate	2017 Estimate	2020 Estimate	% Change from Baseline (2014)	Desired Direction	Compared to VA	Virginia 2020 Estimate
Deaths by suicide, Age-adjusted rate per 100,000 population [^, 2,23]	12.3	11.8	14.8	🔴 **20.3%**	↓	▲	13.5
Firearm-related suicides, Age-Adjusted rate per 100,000 population [^, 23]	6.6	6.9	9.1	🔴 **37.9%**	↓	▲	7.5
[M] Ever been told have **depressive disorder**, Percent estimated prevalence of population ≥18 years [2,1]	14.8%	22.9%	17.8%	🔴 **20.3%**	↓	▼	17.2
Self-harm and suicide-related ED visits, Rate per 100,000 population [#,2]		522.3	502.0	–	↓	▼	577.3

[^] 3 years average age-adjusted rates; [#] 1 year estimated rates.

Source- [2] *Virginia's Plan for Well-Being-CDC National Vital Statistics System;* [1] *CDC Places Behavioral Risk Surveillance System Data;* [23] *Multiple Cause of Death, 1999-2020- CDC Wonder Extract- NVSS Mortality Data- National Center for Health Statistics.*

Table C:12 Virginia Beach Health District- Health Outcomes-Injury and Violence

Virginia Beach Health District Health Outcomes	2014, 2016	2020 Estimate	Desired Direction	Compared to VA Estimate	Virginia 2020 Estimate
Violent crime deaths, Age-adjusted rate per 100,000 population[2,^^^]	152.4		↓	▼	207
Motor vehicle traffic crash deaths, Age-adjusted rate per 100,000 population[2,^^]		6.0	↓	▼	11.5
Unintentional injury death, Age-adjusted rate per 100,000 populations[2,^^]		37.2	↓	▼	50.4

[^^] 2016-2020 (5 years) estimate; [^^^] 2014 and 2016 (2 years) estimate

Source- [2] *Virginia's Plan for Well-Being-CDC National Vital Statistics System.*

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:12 Virginia Beach Health District- Health Outcomes-Injury and Violence

Virginia Beach Health District Health Outcomes	2020 Estimate	Desired Direction	Compared to VA Estimate	Virginia 2020 Estimate
All injuries hospitalizations, per 100,000 population[#,2]	387.8	↓	▲	386.9
Non-drug poisoning hospitalizations, per 100,000 population[#,2]	4.88	↓	▼	5.26
Assault-related hospitalizations, per 100,000 population[#,2]	10.86	↓	▲	9.7
Fall-related injury hospitalizations, per 100,000 population[#,2]	210.1	↓	▲	207.1
Firearm-related injury hospitalizations' per 100,000 population[#,2]	10.4	↓	▲	9.65
Motor vehicle traffic-related injury hospitalizations, per 100,000 population[#,2]	36.1	↓	▼	37.9
Traumatic brain injury (TBI) hospitalizations' per 100,000 population[#,2]	56.7	↓	▼	60.1
Drowning-related hospitalizations' per 100,000 population[#,2]	0.66	↓	▲	0.23

1 year estimated rate.

Source- [2] Virginia's Plan for Well-Being.

Virginia Beach Health District Health Outcomes	2014 Estimate	2017 Estimate	2020 Estimate	% Change from Baseline (2014)	Desired Direction	Compared to VA Estimate	Virginia 2020 Estimate
Firearm homicides (homicides), Rate per 100,000 population [23]	3.0	2.6	4.7	🔴 **56.7%**	↓	▲	4.5

Source- [23] Multiple Cause of Death, 1999-2020- CDC Wonder Extract- NVSS Mortality Data- National Center for Health Statistics.

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:13 Virginia Beach Health District- Demographic Profile

Virginia Beach City/County Demographic Indicators	2016 Estimate	2019 Estimate	2022 Estimate	% Change from Baseline (2016)	Desired Direction	Compared to VA Estimate	Virginia 2022 Estimate
M **Total estimated population**[9d]	**449,733**	**450,201**	**457,900**	⚪ 1.8%	–	▼	**8,624,511**
M **Female persons,** Percent of population[9d]	50.9%	50.8%	50.7%	⚪ -0.4%	–	▲	50.5%
M **Median age**[9d]	35.4	36.2	37.1	⚪ 4.8%	–	▼	38.7
Persons under 5 years, Percent of population	6.5%	6.3%	6.0%	🟢 -7.7%	–	▲	5.70%
Persons under 18 years, Percent of population	22.9%	22.3%	22.0%	🟢 -3.9%	–	▲	21.8%
M **Child dependency ratio**, Ratio of <16 years to 16-64 years per 100 population (calculated) [9d]	28.0	29.7	29.7	🔴 6.1%	↓	▼	29.8
Persons 65 years and over, Percent of population[9d]	12.3%	13.7%	**15.0%**	🔴 **22.0%**	–	▼	16.0%
M **Old-age dependency ratio,** Ratio of 65+ years old to 16-64 years per 100 population (calculated) [9d]	17.9	20.6	**22.8**	🔴 **27.4%**	↓	▼	24.7
Dependency ratio- Ratio of 0-14 year and 65+ years old to 16-16 years old per 100 population (calculated) [9d]	46.0	50.4	52.6	🔴 **14.3%**	↓	▼	54.5
M **Veterans,** Percent of adult population[9a]	*17.9%*	*17.3%*	*16.6%*	⚪ -7.3%	–	▲	9.9%

Source- [9d] US Census Bureau- "ACS Estimated Demographic and Housing Estmates". American Commnity Survey, ACS 5 Year Estimate Data Profiles, Table DP05. [9a]
"Selected Social Characteristics in the United States". ACS 5 Year Estimate Data Profiles, Table DP02.

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:13 Virginia Beach Health District- Demographic Profile

Virginia Beach City/County Demographic Indicators	2016 Estimate	2019 Estimate	2022 Estimate	% Change from Baseline (2016)	Desired Direction	Compared to VA Estimate	Virginia 2022 Estimate
[M] **Total estimated population**[9d]	**449,733**	**450,201**	**457,900** ⬤	**1.8%**	–	▼	8,624,511
American Indian and Alaska Native alone[9d] , Percent of population (all ethnicities)	0.3%	0.3%	0.2% ◯	-33.3%	–	▼	0.3%
[M] **Asian alone**[9] , Percent of population (all ethnicities)	6.5%	6.7%	7.1% ◯	**9.2%**	–	▲	6.9%
[M] **Black or African American alone**[9d] , Percent of population (all ethnicities)	19.1%	19.0%	18.9% ◯	**-1.0%**	–	▬	18.9%
Native Hawaiian and Other Pacific Islander alone[9d] , Percent of population (all ethnicities)	0.1%	0.1%	0.1% ◯	**0.0%**	–	▬	0.1%
[M] **White alone**[9d] , Percent of population (all ethnicities)	67.6%	66.3%	62.8% ◯	**-7.1%**	–	▼	63.5%
Two or more Races[9d] , Percent of population (all ethnicities)	4.9%	5.6%	8.5% ◯	**73.5%**	–	▲	6.9%
[M] **Hispanic or Latino**[9d], Percent of population	7.6%	8.2%	8.8% ◯	**15.8%**	–	▼	10.0%
White alone, Not Hispanic or Latino[9d], Percent of population	62.9%	61.7%	59.9% ◯	**-4.8%**	–	▼	60.0%
Population 5 years and over[9e]	420,406	421,625	430,321 ◯	**2.4%**	–	▼	8,130,363
Speak only English, Percent of population > 5 yrs [9e]	87.9%	87.5%	87.8% ◯	**-0.1%**	–	▲	83.3%
[M] **Speak a language other than English,** Percent of population >5 yrs [9e]	12.1%	12.5%	12.2% ◯	**0.8%**	–	▼	16.7%
Spanish, Percent speak English less than 'very well'	29.0%	30.2%	29.2% ◯	**0.7%**	–	▼	40.6%
Asian or other Pacific Island language, Percent speak English less than	41.2%	40.9%	39.4% ◯	**-4.4%**	–	▲	38.3%
Foreign Born, Percent of population[9d]	9.1%	9.4%	9.3% ◯	**2.2%**	–	▼	12.6%

Source- [9d] US Census Bureau- "ACS Estimated Demographic and Housing Estmates". ACS 5 Year Estimate Data Profiles, Table DP05. [9e] "Language Spoken at Home". ACS 5 Year Estimates Subject Table S1601.

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:14a Virginia Beach Health District- Demographic Profile- Social and Economic Determinants of Health

Virginia Beach City/County Demographic Indicators	2016 Estimate	2019 Estimate	2022 Estimate	% Change from Baseline (2016)	Desired Direction	Compared to VA Estimate	Virginia 2022 Estimate
[M] **Population below the poverty level,** Percent of popoulation in households ≤ 100% of federal povery level[9f]	8.2%	7.3%	8.0%	-2.4%	↓	▼	10.0%
Population below the poverty level, Percent of **female** popoulation in households	9.2%	8.0%	9.0%	-2.2%	↓	▼	11.1%
Population below the poverty level, Percent of **male** popoulation in households	7.1%	6.6%	7.0%	-1.4%	↓	▼	8.9%
Population below the poverty level, Percent of **Asian** alone popoulation in households	7.7%	5.9%	6.0%	-22.1%	↓	▼	7.0%
Population below the poverty level, Percent of **Black** alone popoulation in households	13.7%	11.9%	14.3%	4.4%	↓	▼	16.8%
Population below the poverty level, Percent of **Hispanic or Latino** popoulation in households	13.4%	10.7%	10.8%	-19.4%	↓	▼	13.2%
Population below the poverty level, Percent of **White** alone popoulation in households	6.2%	5.6%	5.8%	-6.5%	↓	▼	7.8%
[M] **Children in poverty**, Percent of child popoulation (<18 yrs old) in households ≤ 100% of federal povery level [9f]	12.3%	10.2%	10.6%	-13.8%	↓	▼	12.8%
Children living in female-headed households, Percent of population < 18 years old[9g]	27.0%	21.3%	20.9%	-22.6%			19.2%
[M] **Children living in single-parent households,** Percent of population < 18 years old[9g^]	33.4%	31.2%	31.5%	-5.7%	↓	▲	30.3%

^Definition of single parent households changed from 2016 to 2019 and 2022. To correct for this, numerator has been calculated to be similar for comparison purposes. Numerator does not include children living in non-family households.

Source- [9f] US Census Bureau, "Poverty Status in the Past 12 Months." American Community Survey, ACS 5-Year Estimates Subject Tables, Table S1701; [9g] "Household Type for Children Under 18 Years in Households (Excluding Householders, Spouses, and Unmarried Partners)." American Community Survey, ACS 5-Year Estimates Detailed Tables, Table B09005.

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:14b Virginia Beach Health District- Demographic Profile- Social and Economic Determinants of Health

Virginia Beach City/County Demographic Indicators	2016 Estimate	2019 Estimate	2022 Estimate	% Change from Baseline (2016)		Desired Direction	Compared to VA Estimate	Virginia 2022 Estimate
[M] **High school completion**, Percent of population ≥ 25 years (with at least high school diploma or equivalent) [9h]	93.2%	93.5%	94.5%	🔴	1.4%	↑	🔺	91.1%
High school completion, Percent of **female** population ≥ 25 years (with at least high school diploma or equivalent)	93.1%	93.4%	94.1%	🔴	1.1%	↑	🔺	91.7%
High school completion, Percent of **male** population ≥ 25 years (with at least high school diploma or equivalent)	93.3%	93.7%	93.9%	⚪	0.6%	↑	🔺	90.5%
High school completion, Percent of **Asian alone** population ≥ 25 years (with at least high school diploma or equivalent)	89.8%	88.2%	89.3%	⚪	-0.6%	↑	🔻	90.9%
High school completion, Percent of **Black alone** population ≥ 25 years (with at least high school diploma or equivalent)	89.5%	91.1%	92.8%	🔴	3.7%	↑	🔺	88.4%
High school completion, Percent of **Hispanic or Lation Origin alone** population ≥ 25 years (with at least high school diploma or equivalent)	87.0%	84.5%	87.7%	⚪	0.8%	↑	🔺	75.5%
High school completion, Percent of **White alone** population ≥ 25 years (with at least high school diploma or equivalent)	94.8%	95.3%	96.3%	🔴	1.6%	↑	🔺	93.2%

Source- [9h] US Census Bureau- "Educational Attainment." *American Community Survey, ACS 5-Year Estimates Subject Tables, Table S1501.*

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:14b Virginia Beach Health District- Demographic Profile- Social and Economic Determinants of Health

Virginia Beach City/County Demographic Indicators	2016 Estimate	2019 Estimate	2022 Estimate	% Change from Baseline (2016)	Desired Direction	Compared to VA Estimate	Virginia 2022 Estimate
Reading proficiency of 3rd grade students, Percent of child population in VBCPS[11]	64.5%	56.3%	62.5% ● -3.1%	↑	▲	57.0%
Reading proficiency of 3rd grade students, Percent of **Asian** alone child population in VBCPS[11]	60.7%	53.9%	65.2% ● 7.4%	↑	▲	64.0%
Reading proficiency of 3rd grade students, Percent of **Black alone** child population in VBCPS[11]	61.4%	52.7%	53.0% ●-13.7%	↑	▲	48.8%
Reading proficiency of 3rd grade students, Percent of **Hispanic** child population in VBCPS[11]	65.5%	56.2%	61.9% ● -5.5%	↑	▲	46.5%
Reading proficiency of 3rd grade students, Percent of **White alone** child population in VBCPS[11]	65.8%	57.8%	66.2% ● 0.6%	↑	▲	63.4%
Math Proficiency of 3rd grade students, Percent of child population in VBCPS[11]	57.6%	61.5%	62.2% ● 8.0%	↑	▲	56.3%
Math proficiency of 3rd grade students, Percent of **Asian** alone child population in VBCPS[11]	49.6%	49.8%	62.6% ● 26.2%	↑	▲	60.2%
Math proficiency of 3rd grade students, Percent of **Black alone** child population in VBCPS[11]	62.0%	4.4%	49.9% ●-19.5%	↑	▲	30.0%
Math proficiency of 3rd grade students, Percent of **Hispanic** child population in VBCPS[11]	61.0%	64.0%	60.6% ● -0.7%	↑	▲	47.7%
Math proficiency of 3rd grade students, Percent of **Hispanic** child population in VBCPS[11]	55.7%	60.7%	67.7% ● 21.5%	↑	▲	62.2%

Source- [11] Virginia Department of Education, Statndards of Learning Test.

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Appendix C- 21|Virginia Beach Community Health Needs Assessment

Table C:14c Virginia Beach Health District- Demographic Profile- Social and Economic Determinants of Health

Virginia Beach City/County Demographic Indicators	2019 Estimate	% Change from Baseline (2016)	Desired Direction
Population in a food desert designated area (2019 Estimate), Percent of population [12]	30,939 (7.6%	–	↓
M **Food desert neighborhoods** (Census tracts identified as food deserts, 2019) [&, 12]	7.1%[#]	–	↓

Source- [12] USDA Food Access Research Atlas.

Table C:14c Virginia Beach Health District- Demographic Profile- Social and Economic Determinants of Health

Virginia Beach City/County Demographic Indicators	2017 Estimate	2019 Estimate	2021 Estimate	% Change from Baseline (2017)	Desired Direction	Compared to VA Estimate	Virginia 2021 Estimate
Food Insecurity Rate, Percent of population (2021 Estimate) [13]	9.7%	7.7%	6.8% 🟢		↓	▼	8.1%
Among **Black population** (all ethnicities)[#^^]	-	14.0%	16.0%	–	↓	▼	17.0%
Among **Hispanic population** (any race)	-	14.0%	13.0%	–	↓	▲	12.0%
Among **White** (Non-Hispanic) population	-	7.0%	5.0%	–	↓	▬	5.0%
Child Food Insecurity Rate, Percent of child population [3]	12.3%	9.8%	8.2% 🟢		↓	▼	8.8%
Above SNAP, Other nutrition programs threshold of 130% poverty, Percent of population eligible (food insecure people)[13]	43%	43%	36.0% 🟢		↓	▼	43%
Below SNAP, Other nutrition programs threshold of 130% of poverty, Percent of population eligible (food insecure people)[13]	57%	56%	64.0% 🔴		↓	▲	57%
M **Limited access to healthy food**, Percent of population (population living more than 1/2 mile from nearest supermarket, supercenter, or large grocery store) [5]	62.2%		57.6% 🟢		↓	▲	

^^Using 103% SNAP criteria.

Source- [3] County Health Rankings; [5] City Health Dashboard; [13] Feeding America- Map the Meal Gap 2022: An Analysis of County and Congressional District Food Insecurity and County Food Cost in the United States in 2017-2021.

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:14d Virginia Beach Health District- Demographic Profile- Social and Economic Determinants of Health

Virginia Beach City/County Demographic Indicators	2016 Estimate	2019 Estimate	2020 Estimate	% Change from Baseline (2017)	Desired Direction
[M] **Social Vulnerability Index,** Index (Composite) 2020 [&#, 14]	*Low*	*Low*	*Low-medium* 🔴		↓
[M] **Health Opportunity Index,** Percent of population living in neigbhorhood with opportunity level (Composite), 2016 [&,15]		*See map*		–	↑
Very low		*13%*		–	↓
Low		*23%*		–	↓
Average		***28%***		–	
High		*22%*		–	↑
Very high		*14%*		–	↑

#COVID-19 Pandemic not fully realized in data. &Latest data available for composite score. Composite score uses data from different years.

Source- [14] CDC/ATSDR Social Vulnerability Index; [15] VDH Health Opportunity Index; [5] City Health Dashboard

Table C:14e Virginia Beach Health District- Demographic Profile- Social and Economic Determinants of Health

Virginia Beach City/County Demographic Indicators- Disability	2016 Estimate	2019 Estimate	2022 Estimate	% Change from Baseline (2016)	Desired Direction	Compared to VA Estimate	Virginia 2022 Estimate
With a disability, Percent of civilian noninstitutionalized popualtion[9a]	10.3%	11.2%	11.8% 🔴		↓	▼	12.1%
With a disability, Percent of civilian noninstitutionalized popualtion over 65 years of age[9a^]	*32.6%*	*31.6%*	*30.3%* 🟢		↓	▼	31.9%

Source- [9a] US Census Bureau. "Selected Social Characteristics in the United States." American Community Survey, ACS 5-Year Estimates Data Profiles, Table DP02.

[9a^] Detailed tables Subject Table S1810.

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:14f Virginia Beach Health District- Demographic Profile- Social and Economic Determinants of Health

Virginia Beach City/County Demographic Indicators	2016 Estimate	2019 Estimate	2022 Estimate	% Change from Baseline (2016)	Desired Direction	Compared to VA Estimate	Virginia 2022 Estimate
[M] **Total workers**, Population in labor force 16 yrs older[9c]	253,224	255,544	256,284	🟢	↑		4,570,843
[M] **Unemployment**- Population ≥16 that is unemployed, Percent[9c]	5.8%	4.6%	4.3%	🟢	↓	🔻	4.4%
[M] **Mean travel time to work** (minutes)[9i]	23.4	23.6	23.5	⚪	↓	🔻	27.9
Driving alone to work, Percent of workforce (16 yrs and older)	81.9%	82.1%	77.1%	🔴	↓	🔺	70.9%
Carpooled to work, Percent of workforce (16 yrs and older)	8.7%	8.6%	7.5%	🔴	↑	🔻	8.3%
Public transportation to work, Percent of workforce (16 yrs and older)	0.9%	0.8%	0.9%	⚪	–	🔻	3.0%
Biked/Walked to work, Percent of workforce (16 yrs or older)	3.2%	2.7%	2.2%	🔴	–	🔻	2.4%
Worked from home, Percent of workforce (16 yrs and older)	4.0%	3.9%	10.7%	🟢	–	🔻	14.0%
[M] **Households with no motor vehicle**, Percent households[9a,c]	3.9%	4.2%	4.4%	🟢	↓	🔻	6.1%
[M] **Average household size,** Number of persons[9a]	2.62	2.58	2.51	🔴	–	🔻	2.55
Average family size, Number of persons[9a]	3.13	3.08	3.03	🔴	–	🔻	3.14
[M] **Median income**, Households ($)[9b]	$67,719	$ 76,610	$87,544	🟢	↑	🔺	$87,249
Median income, Families ($)[9b]	$80,068	$88,553	$ 103,720	🟢	↑	🔻	$107,501

Source-[9a]US Census Bureau. "Selected Social Characteristics in the United States." *American Community Survey, ACS 5-Year Estimates Data Profiles, Table DP02*; [9b]"Selected Economic Characteristics." *American Community Survey, ACS 5-Year Estimates Data Profiles, Table DP03*; [9c]"Selected Housing Characteristics." *American Community Survey, ACS 5-Year Estimates Data Profiles, Table DP04*; [9i]Detailed "Means of Transportation to Work". *American Community Survey, ACS 5-Year Estimates Detailed Table B08301* .

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:14f Virginia Beach Health District- Demographic Profile- Social and Economic Determinants of Health

Virginia Beach City/County Demographic Indicators	2016 Estimate	2019 Estimate	2022 Estimate	% Change from Baseline (2016)	Desired Direction	Compared to VA Estimate	Virginia 2022 Estimate
[M] **Median Home Value ($),** Owner-occupied households[9c]	$262,200	$280,800	$343,700	🟢 **31.1%**	↑	▲	$339,800
[M] **Owner-Occupied** housing, Percent occupied housing units[9c]	63.2%	63.7%	63.4%	⚪ **0.3%**	↑	▼	66.9%
[M] **Rent Burden**, Percent of population, Households with ≥30% of household income spent on rent[9c]	52.8%	48.7%	50.3%	🟢 **-4.7%**	↓	▲	47.8%
[M] **Have computer**, Percent of households[9a]	-	95.0%	96.7%	-	↑	▲	94.0%
[M] **Have computer with broadband internet subscription**, Percent of households[9a]	-	89.9%	93.5%	-	↑	▲	88.7%

Source- [9a] US Census Bureau. "Selected Social Characteristics in the United States." *American Community Survey, ACS 5-Year Estimates Data Profiles, Table DP02;*

Table C:14g Virginia Beach Health District- Demographic Profile- Environmental Determinants of Health

Virginia Beach City/County Environmental Indicators	2014 Estimate	2016 Estimate	2018 Estimate	% Change from baseline (2014)	Desired Direction	Compared to VA Estimate	Virginia 2020 Estimate
[M] Air pollution- **Particulate Matter** (annual average PM2.5 concentration)[5]	8.5	7.0	6.7	🟢 **-21.2%**	↓		
[M] **Housing** with **potential lead risk**, Percent housing stock[5]	8.3%	8.3%	8.0%	🟢 **-3.6%**	↓		
[M] **Park access**, Percent of population (living within 10 minute walk of green space[5]			64.2%	–	↑		
[M] **Walkability**, Index (neighborhood amenities accessble by walking, calculated by Walk Score) (higher score represent more amenities within walking distance) [5]			32.1	–	↑	▲	

Source- [5] *City Health Dashboard.*

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:14h Virginia Beach Health District- Demographic Profile- Population Projections

Virginia Beach City/County Demographic Indicators	2020 Estimate	2030 Projection	2040 Projection	% Change from baseline (2020)	Desired Direction	Compared to VA Estimate	Virginia 2040 Estimate
Total projected population, Virginia Beach[21]	459,470	474,052	483,916	🔴 5.3%	–	▼	9,759,371
Persons 65 years and over, Percent of projected population	14.2%	--	18.8%	🔴 **32.4%**	_	▲	

Source-[21]University of Virginia Weldon Cooper Center, Demographics Research Group. (2022). Virginia Population Projections. Retrieved from https://demographics.coopercenter.org/virginia-population-projections

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Table C:15 Virginia Beach Health District- Leading Causes of Death

Virginia Beach City/County 15 Leading Causes of Death[^,23],[***]	2014 Estimate[#]	2017 Estimate[#]	2020 Estimate[#]	Statistically different from baseline	Desired Direction	Compared to VA Estimate	Virginia 2020 Estimate[#]
Malignant neoplasms (Cancers)	168.3 (1)	154.85 (1)	147.3 (1)	🟢	↓	🔺	146.9 (1)
Diseases of heart	140.0 (2)	138.4 (2)	142.7 (2)	Not Significant	↓	🔻	149.6 (2)
Cerebrovascular diseases[*1]	33.6 (3)	39.1 (3)	43.4 (3)	🔴	↓	🔺	39.0 (4)
Unintential injuries	31.4 (4)	34.9 (4)	38.0 (4)	🔴	↓	🔻	46.7 (3)
Chronic lower respiratory diseases[*2]	32.8 (5)	34.3 (5)	27.9 (5)	🟢	↓	🔻	34.4 (5)
Alzheimer disease	*17.8 (7)*	25.4 (6)	26.0 (6)	🔴	↓	🔻	27.6 (6)
Diabetes	*19.2 (6)*	22.8 (7)	18.0 (7)	Not Significant	↓	🔻	23.5 (7)
Kidney diseases[*3]	15.6 (8)	13.5 (8)	15.4 (8)	Not Significant	↓	🔻	16.1 (9)
Intentional self harm (suicide)	*12.3 (11)*	11.8 (9)	14.8 (9)	Not Significant	↓	🔻	13.4 (10)
COVID-19	--	--	*10.9 (10)*	--	↓	🔻	19.2 (8)
Chronic liver disease and cirrhosis	8.4 (12)	9.4 (11)	10.4 (11)	🔴	↓	▪	10.4 (12)
Parkinson disease	7.3 (13)	9.4 (12)	10.2 (12)	🔴	↓	🔺	9.6 (14)
Septicemia	*13.8 (10)*	*9.7 (10)*	8.2 (13)	🟢	↓	🔻	10.4 (13)
Influenza and pneumonia	*15.3 (9)*	8.4 (13)	7.1 (14)	🟢	↓	🔻	11.8 (11)
Hypertension, renal disease[*4]	*6.7 (14)*	*5.4 (14)*	6.3 (15)	Not Significant	↓	🔻	8.2 (15)

[***] Age-adjusted rate per 100,000 population

[^]Leading causes of death ordered by 2018-2020 period. Italicized rates indicate change in ranking from 2020 estimate. [#]Age-adjusted rates are 3 year estimates (2012-2014, 2015-2017, 2018-2020). [##]Statistical significance calculated at the 95% confidence level. [*1]Cerebrovascular diseases include Stroke, carotid stenosis, vertebral stenosis, intracranial stenosis, aneurysms and vascular malformations; [*2]Chronic lower respiratory diseases inlcude COPD, chronic bronchitis, emphysema, asthma; [*3]Nephritis, nephrotic syndrome, and nephrosis; [*4]Essential hypertension and hypertensive renal disease.

Source- [23]Multiple Cause of Death, 1999-2020- CDC Wonder Extract- NVSS Mortality Data- National Center for Health Statistics.

Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

Data Sources:

[1] 1. PLACES: Local Data for Better Health. Centers for Disease Control and Prevention. 2018. https://www.cdc.gov/places

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[4] 4. Peristats- March of Dimes for Virginia. URL: https://www.marchofdimes.org/peristats/

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[7] 7. CDC- NCHHSTP Atlas Plus. URL: https://gis.cdc.gov/grasp/nchhstpatlas/tables.html

[8] 8. Virginia Department of Health- ED Visits for Drug Overdose- Surveillance and Investigation (Opioid Dashboard). 2023. URL: https://www.vdh.virginia.gov/surveillance-and-investigation/syndromic-surveillance/drug-overdose-surveillance/

[9] 9a. US Census Bureau- "Selected Social Characteristics in the United States". ACS 5 Year Estimate Data Profiles, Table DP02. URL: https://data.census.gov.

9a^. US Census Bureau- "Disability Characteristics." American Community Survey, ACS 5-Year Estimates, Detailed tables Subject Table S1810. URL: https://data.census.gov.

9b. US Census Bureau- "Selected Economic Characteristics." American Community Survey, ACS 5-Year Estimates Data Profiles, Table DP03. URL:

9c. US Census Bureau- "Selected Housing Characteristics." American Community Survey, ACS 5-Year Estimates Data Profiles, Table DP04. URL:

9d. US Census Bureau- "ACS Estimated Demographic and Housing Estmates." American Commnity Survey, ACS 5 Year Estimate Data Profiles, Table DP05. URL: https://data.census.gov.

9e. US Census Bureau- "Language Spoken at Home." American Community Survey, ACS 5 Year Estimates Subject Table S1601. URL: https://data.census.gov.

9f. US Census Bureau- "Poverty Status in the Past 12 Months." American Community Survey, ACS 5-Year Estimates Subject Tables, Table S1701. URL:

9g. US Census Bureau- "Household Type for Children Under 18 Years in Households (Excluding Householders, Spouses, and Unmarried Partners)."

9h. US Census Bureau- "Educational Attainment." American Community Survey, ACS 5-Year Estimates Subject Tables, Table S1501.

9i. US Census Bureau- Detailed "Means of Transportation to Work". American Community Survey, ACS 5-Year Estimates Detailed Table B08301.

9j. US Census Bureau- "Private Health Insurance Coverage by Type and Selected Characteristics". ACS 5 Year Estimates Subject Table S2703.

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11. Virginia Department of Education, Statndards of Learning Test, 2022, 2019, 2016. URL: https://p1pe.doe.virginia.gov/

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Notes- Percentage change >± 1% are highlighted as either red (worse than comparison) or green (better than comparison)

13. Feeding America- Map the Meal Gap 2022: An Analysis of County and

Congressional District Food Insecurity and County Food Cost in the United States in 2017-2021

14 14. CDC/ATSDR Social Vulnerability Index

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16 16. US Census- Small Area Health Insurance Estimates. Small Area Health Insurance Estimates Program. (SAHIE) 2018-2020.

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23. Multiple Cause of Death, 1999-2020- CDC Wonder Extract- NVSS Mortality Data- National Center for Health Statistics.

If you have questions about our Community Health Needs Assessment,
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