ORAL HEALTH DATA SUMMARY – CENTRAL VIRGINIA REGION

Summary of Oral Health Data Sources	1
Statistics: Report Card Indicators by Health Planning Region	8
Virginia Department of Health (VDH) Health Planning Regions & Health Districts	11
Data Notes	13

Summary of Oral Health Data Sources

The table below summarizes survey data and administrative data (claims and encounters) available at the state level on oral health and health equity. This list is not exhaustive; it is meant to provide a snapshot. Data is listed first by sources that were included in the 2016 Virginia Oral Health Report Card. Requests for data or statistics must be made to the individual agencies listed. The Virginia Oral Health Coalition is continually updating this list. To provide feedback, please contact Lauren Gray at lgray@vaoralhealth.org or 804-299-5506.

Data Source	Population	Granularity	Indicator(s)	Other Variables ¹	Most Recent
					Data Year
2016 Virginia Oral Healt	h Report Card Data				
Virginia Department of H	lealth (VDH)				
Basic Screening Survey (BSS) of Third Grade Children	All third graders	 State Health Planning Region² 	 Treated and untreated tooth decay (separate and combined) Sealant placement Unmet dental care need 	 Race/ethnicity Eligibility for free and reduced lunch Insurance status (medical) 	2014-2015
Behavioral Risk Factor Surveillance System (BRFSS)	All adults 18+	 State Health Planning Region Health District <u>Downloadable</u> <u>maps</u> from CDC's 	 Permanent teeth extracted due to decay or disease (1 to 5 teeth, 6+, all, or none) Past year dental visit Dental coverage status 	 Race/ethnicity Income category Health conditions (diabetes, cardiac disease) 	2015 (2013 for dental coverage)

¹ Custom reports with analyses by demographics and other variables may be available by request to the agency.

Last updated: May 18, 2017

² There are five health planning regions: Region 1 – Northwestern; Region 2 – Northern; Region 3 – Southwestern; Region 4 – Central; Region 5 – Eastern. A list of the counties and cities comprising each region can be found here.

Pregnancy Risk Assessment Monitoring System (PRAMS)	Postpartum women	500 cities project, including Richmond • State • Health Planning Region	 Dental visit during pregnancy Dental problem during pregnancy Dental visit for a problem during pregnancy 	 Health behaviors (tobacco use, regular medical provider) Age group Race/ethnicity Income category Maternal education Age group Insurance type (medical) 	2012-2013
Water Fluoridation Reporting & Monitoring System (WRFS)	All Virginians	StateCity/county	 Percent of population served by fluoridated public water systems <u>Individual locality CWF</u> <u>status available at CDC</u> 	Not applicable	2016
Virginia Department of N	Medical Assistance Services (DN	MAS)			
Early & Periodic Screening, Diagnostic, & Treatment (EPSDT) service utilization data	All children enrolled in Medicaid and/or FAMIS, up to age 21	StateCity/county	 Total receiving any dental services Total receiving preventive dental services Total receiving treatment dental services # Medicaid dentists 	 Race/ethnicity Age group Locality Medicaid enrollment FAMIS enrollment 	2014-2015
Additional Virginia Oral	Health Data Sources				
Data Resource Center fo	r Child & Adolescent Health				
National Survey of Children's Health/Children with Special Healthcare Needs (CSHCN)	Virginia children ages 0-17	• State	 Oral health status Dental visit in past year Unmet dental need for CSHCN 	 Age Sex Race/ethnicity Parents' educational attainment Primary language for Hispanic children Household income Family structure 	2011-2012 (NSCH)/2009- 2010 (CSHCN)

Virginia Association of Fr	ree & Charitable Clinics (VAFCC			 SHCN status Complexity of health care needs Emotional, behavioral, or developmental issues Medical home Insurance status Insurance type Consistency of health coverage Adequacy of insurance Urban/rural residence 	
-				Not applicable	2015
Virginia free clinic annual reports	Low-income, uninsured adults 18+	 State Individual clinics offering any dental services 	 Total annual dental visits Total annual patients receiving dental services Total annual staff and volunteers providing dental care Total annual \$ value of dental services provided 	Not applicable	2013
Virginia Department of H	lealth (VDH)				
Adult Oral Health Access Survey	All adults 18+	 State Health Planning Region 	 Dental coverage status (among adults with medical insurance) Immediate need for treatment Past year dental visit Time since last dental visit Reasons for delaying treatment Need for tooth extraction Self-report oral health status 	 Race/ethnicity Income category Sex Age group 	2014

			 Inability to work/sleep due to dental pain Service location of last reported dental visit Past year out-of-pocket cost of dental care 		
Basic Screening Survey	Elder survey: conducted in 2015-2016 in congregate meal sites and in nursing homes/assisted living facilities; includes clinical and survey components. Can produce some summary data, but not representative at the population level. Head Start survey: pilot phase completed in 2016; children ages 0-5 in Head Start programs.	State Health Planning Region	Open-mouth survey: Caries experience Immediate need for treatment Last dental visit		2014-2015 – 3 rd Grade BSS
Bright Smiles for Babies (BSB) Fluoride Varnish Program	Babies receiving services through WIC and local health department clinics, ages 0-3, along with parent survey	 State Health planning region Health district 	 Services rendered (including fluoride varnish application) Number screened Number referred Follow-up Treated and untreated decay Immediate need for treatment Parental oral health knowledge (some districts) Oral health education provided to parents (all districts) 	• Sex	2016

Dental Health Professional Shortage Areas (DHPSAs) Virginia Cancer Registry	All cities and counties All Virginians	 State Health Planning Region City/county State Health Planning Region 	 Percentage of population residing in a DHPSA Individual city/county DHPSA designations available on HRSA's website Diagnostic and treatment information: Oral cancer incidence 	 Not applicable Age Sex Race/ethnicity 	Varies – data maintained by HRSA in collaboration with VDH Ongoing	
		Health District	Mortality5-year survival	Residence addressOccupation		
Virginia Sealant Efficiency Assessment for Locals and States (VA SEALS)	Third graders served by sealant program localities (not representative at the population level)	 Schools participating in sealant programs 	 Treated and untreated decay Sealant placement and retention on molar surfaces Receipt of fluoride varnish 	Service data only – not indicative of oral health status of the population	Ongoing	
Virginia Department of F				l .	2016/	
Dental Manpower Surveys	Licensed, practicing dentists and dental hygienists in Virginia	 State Council on Virginia's Future region Area Health Education Center region Workforce investment areas Health planning region Health planning district 	Active, licensed dental health professionals operating at state and local level	 Age Race/ethnicity Sex Education Practice location Residence 	2016 (surveys done annually)	
Virginia Health Care Foundation (VHCF)						
Safety net clinics (free clinics and FQHCs)	Clinics serving low-income, uninsured adults 18+, and children and adults enrolled in Medicaid/FAMIS	 State Individual clinics offering any dental services 	Total localities with a safety net clinic offering full-time or part-time dental services	Not applicable	2016	
Virginia Health Information (VHI)						

Hospital emergency department utilization data	Patients utilizing the emergency room for dental-related conditions	 State Health planning region Health planning district City/county Individual hospital 	Patient visits, payer (excluding self-pay and charity care), and costs by diagnostic code. Most common diagnostic codes for dental-related ER visits: • Dental disorder NOS (ICD-9: 525.9; ICD-10: K08.9) • Abscess w/out sinus (ICD-9: 522.5; ICD-10: K04.7) • Dental caries NOS (ICD-9: 521.00; ICD-10: K02.9)	Age Sex	Ongoing
Virginia Department of		Data			
Health Opportunity Index (HOI)	All Virginians	 Health district Legislative district City/county 	The HOI is a group of indicators that provide broad insight into the overall opportunity Virginians have to live long and healthy lives based on the Social Determinants of Health. It is made up of over 30 variables, combined into 13 indicators, grouped into four profiles, which are aggregated into a single Health Opportunity Index.	Not applicable	
	vices Administration (HRSA) via	·			
Federally Qualified Health Center (FQHC) Data	Utilization data for all FQHCs in aggregate form, some data for individual health centers	 State Individual community health centers 	 Number and type of dental services provided Patients seen for dental visit Number of FTE dentists, hygienists, and dental assistants 	Patient demographics are collected, but cannot be stratified to compare utilization of services by demographics	2016 (annually)

Additional Regional Health Information Resources

- Local/regional community health needs assessment (CHNA) survey data
 - o Bon Secours CHNAs & Implementation Plans
 - o VCU Children's Hospital of Richmond CHNA, 2013

- Virginia Commonwealth University Community Engagement
 - o VCU publishes an online list of <u>regional plans</u> regarding critical issues in the Richmond region
- Local health district reports
 - o <u>Chickahominy Health District Demographic Summary, 2011</u> (Charles City County, Goochland County, Hanover County, New Kent County)
- Local data on equity, economy, education, environment, food, and health available on the Community Commons website
- Other community reports
 - o Capital Region Collaborative, RVA Snapshot, 2016
 - o Smart Beginnings Regional Plan for School Readiness, 2017-2020
 - o United Way of Greater Richmond & Petersburg, Indicators of Community Strength, 2016

Statistics: Report Card Indicators by Health Planning Region

Children

- 50% of Central Virginia's third grade children had tooth decay (treated and/or untreated) in their primary or permanent teeth in 2014-2015, compared to
 - 47% of third grade children overall in Virginia
 - o 63% of third grade children in Northwest Virginia
 - o 38% of third grade children in Northern Virginia
 - 55% of third grade children in Southwest Virginia
 - 43% of third grade children in Eastern Virginiaⁱ
- 54% of Central Virginia's third grade children had dental sealants on their permanent molars in 2014-2015, compared to
 - o 52% of third grade children overall in Virginia
 - o 54% of third grade children in Northwest Virginia
 - o 56% of third grade children in Northern Virginia
 - 46% of third grade children in Southwest Virginia
 - 48% of third grade children in Eastern Virginia ii
- 54% of children aged 1-20 enrolled in Medicaid/FAMIS in Central Virginia had a preventive dental service in 2014-2015, compared to
 - o 53% of children aged 1-20 enrolled in Medicaid/FAMIS overall in Virginia
 - o 52% of children aged 1-20 enrolled in Medicaid/FAMIS in Northwest Virginia
 - o 61% of children aged 1-20 enrolled in Medicaid/FAMIS in Northern Virginia
 - 50% of children aged 1-20 enrolled in Medicaid/FAMIS in Southwest Virginia
 - o 48% of children aged 1-20 enrolled in Medicaid/FAMIS in Eastern Virginia iii
- 31% of children aged 1-2 enrolled in Medicaid/FAMIS in Central Virginia had a preventive dental service in 2014-2015, compared to
 - o 24% of children aged 1-2 enrolled in Medicaid/FAMIS overall in Virginia
 - o 20% of children aged 1-2 enrolled in Medicaid/FAMIS in Northwest Virginia
 - o 27% of children aged 1-2 enrolled in Medicaid/FAMIS in Northern Virginia
 - o 16% of children aged 1-2 enrolled in Medicaid/FAMIS in Southwest Virginia
 - o 24% of children aged 1-20 enrolled in Medicaid/FAMIS in Eastern Virginiaiv

Adults

- 54% of adults aged 45-64 in Central Virginia reported having lost at least one tooth due to tooth decay or gum disease in 2015, compared to
 - o 50% of adults aged 45-64 overall in Virginia
 - o 50% of adults aged 45-64 in Northwest Virginia
 - o 36% of adults aged 45-64 in Northern Virginia
 - o 61% of adults aged 45-64 in Southwest Virginia

- 55% of adults aged 45-64 in Eastern Virginia^v
- 35% of adults aged 18+ in Central Virginia reported not having dental insurance coverage in 2013, compared to
 - o 38% of adults aged 18+ overall in Virginia
 - o 40% of adults aged 18+ in Northwest Virginia
 - o 28% of adults aged 18+ in Northern Virginia
 - o 52% of adults aged 18+ in Southwest Virginia
 - o 35% of adults aged 45-64 in Eastern Virginia vi
- 5% of Medicaid pediatric medical providers applied fluoride varnish in 2016. vii (Regional percentages not available.)
- 96% of Virginia's population is served by fluoridated public water systems in 2016, compared to 80% of the U.S. population overall. (Regional percentages not available.)

Additional Indicators of Virginia's Oral Health (Not Measured in Report Card)

- 37% of adults aged 18+ in Central Virginia reported being in need of a dental cleaning in 2014, compared to
 - 42% of adults aged 18+ in Northwest Virginia
 - o 40% of adults aged 18+ in Northern Virginia
 - 43% of adults aged 18+ in Southwest Virginia
 - o 42% of adults aged 18+ in Eastern Virginia^{ix}
- 26% of adults aged 18+ in Central Virginia reported being in immediate need of dental care in 2014, compared to
 - o 19% of adults aged 18+ in Northwest Virginia
 - o 14% of adults aged 18+ in Northern Virginia
 - o 24% of adults aged 18+ in Southwest Virginia
 - o 18% of adults aged 18+ in Eastern Virginia^x
- 30% of adults aged 18+ in Central Virginia reported putting off dental care due to cost in 2014, compared to
 - o 17% of adults aged 18+ overall in Virginia³
 - o 28% of adults aged 18+ in Northwest Virginia
 - o 19% of adults aged 18+ in Northern Virginia
 - 32% of adults aged 18+ in Southwest Virginia
 - o 31% of adults aged 18+ in Eastern Virginia^{xi}
- 15% of adults aged 18+ in Central Virginia reported inability to work or do regular activities due to dental pain in 2014, compared to
 - o 11% of adults aged 18+ overall in Virginia
 - o 8% of adults aged 18+ in Northwest Virginia
 - o 9% of adults aged 18+ in Northern Virginia
 - o 13% of adults aged 18+ in Southwest Virginia

Virginia Oral Health Coalition | 9

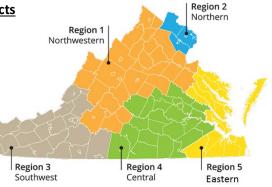
Last updated: May 18, 2017

³ Among Virginia adults with dental insurance. Among Virginians without dental insurance, 55% delay dental care due to cost.

- o 10% of adults aged 18+ in Eastern Virginiaxii
- 15% of adults aged 18+ in Central Virginia reported inability to sleep due to dental pain in 2014, compared to
 - o 12% of adults aged 18+ overall in Virginia
 - o 10% of adults aged 18+ in Northwest Virginia
 - o 8% of adults aged 18+ in Northern Virginia
 - o 16% of adults aged 18+ in Southwest Virginia
 - o 11% of adults aged 18+ in Eastern Virginia xiii
- 70% of adults aged 18+ in Central Virginia reported having a dental visit in the past year in 2015, compared to
 - o 73% of adults aged 18+ overall in Virginia
 - o 71% of adults aged 18+ in Northwest Virginia
 - o 81% of adults aged 18+ in Northern Virginia
 - o 63% of adults aged 18+ in Southwest Virginia
 - o 72% of adults aged 18+ in Eastern Virginiaxiv

Virginia Department of Health (VDH) Health Planning Regions & Health Districts

1 - Northwestern	2 – Northern	3 – Southwestern	4 - Central	5 – Eastern
Albemarle County	Alexandria City	Alleghany County	Amelia County	Accomack County
Amherst County	Arlington County	Bland County	Brunswick County	Chesapeake City
Appomattox County	Fairfax City	Botetourt County	Buckingham County	Essex County
Augusta County	Fairfax County	Bristol City	Charles City County	Franklin City
Bath County	Falls Church City	Buchanan County	Charlotte County	Gloucester County
Bedford City	Loudoun County	Carroll County	Chesterfield County	Hampton City
Bedford County	Manassas City	Clifton Forge City	Colonial Heights City	Ilse of Wight County
Buena Vista City	Manassas Park City	Covington City	Cumberland County	James City County
Campbell County	Prince William City	Craig County	Dinwiddie County	King and Queen County
Caroline County	Prince William County	Danville City	Emporia City	King William County
Charlottesville City		Dickenson County	Goochland County	Lancaster County
Clarke County		Floyd County	Greensville County	Matthews County
Culpeper County		Franklin County	Halifax County	Middlesex County
Fauquier County		Galax City	Hanover County	Newport News City
Fluvanna County		Giles County	Henrico County	Norfolk City
Frederick County		Grayson County	Hopewell City	Northampton County
Fredericksburg City		Henry County	Lunenburg County	Northumberland
Greene County		Lee County	Mecklenburg County	County
Harrisonburg City		Martinsville City	New Kent County	Poquoson City
Highland County		Montgomery County	Nottoway County	Portsmouth City
King George County		Norton City	Petersburg City	Richmond County
Lexington City		Patrick County	Powhatan County	Southampton County
Louisa County		Pittsylvania County	Prince Edward County	Suffolk City
Lynchburg City		Pulaski County	Prince George County	Virginia Beach City
Madison County		Radford City	Richmond City	Westmoreland County
Nelson County		Roanoke City	Surrey County	Williamsburg City
Orange County		Roanoke County	Sussex County	York County
Page County		Russell County		
Rappahannock County		Salem City	Bold = Greater	
Rockbridge County		Scott County	Richmond	
Rockingham County		Smyth County	& Petersburg area	
Shenandoah County		Tazewell County		
Spotsylvania County		Washington County		
Stafford County		Wythe County		
Staunton City		Wise County		
Warren County				
Waynesboro City				
Winchester City				



Region 4 Health Districts

Chesterfield: Chesterfield County, Colonial Heights City, Powhatan County

Chickahominy: Charles City County, Goochland County, Hanover County,

New Kent County

Crater: Dinwiddie County, Emporia City, Greensville County, Hopewell

City, Petersburg City, Prince George County, Surry County, Sussex County

Henrico

Piedmont: Amelia County,

Buckingham County, Charlotte County,

Cumberland County, Lunenburg County, Nottoway County, Prince

Edward County

Pittsylvania/Danville

Richmond City

Southside: Brunswick County, Halifax

County, Mecklenburg County

Full Hyperlinks

PAGE 1

Virginia Oral Health Report Card 2016: http://bit.ly/VAReportCard

CDC 500 Cities Project – Downloadable maps: https://www.cdc.gov/500cities/map-books.htm#ui-id-93

PAGE 2

My Water's Fluoride: https://nccd.cdc.gov/DOH_MWF/Default/Default.aspx

PAGE 5

Dental Health Professional Shortage Areas: https://datawarehouse.hrsa.gov/tools/analyzers/geo/ShortageArea.aspx

PAGE 6

VDH Health Opportunity Index: https://www.vdh.virginia.gov/omhhe/hoi/

FQHC data: https://bphc.hrsa.gov/uds/datacenter.aspx?q=d&year=2013&state=VA#glist

 $Bon \ Secours \ CHNAs \ \& \ Implementation \ Plans: \ \underline{https://bonsecours.com/richmond/community-community-health-needs-assessment}$

VCU Children's Hospital CHNA: http://www.chrichmond.org/Children's%20Hospital%20of%20Richmond%20at%20VCU%20CHNA%2003%2001%2013.pdf

PAGE 7

Virginia Commonwealth University Community Engagement: http://community.vcu.edu/community-indicators--data-/critical-issues-in-the-richmond-region/ Chickahominy Health District Demographic Summary, 2011 (Charles City County, Goochland County, Hanover County, New Kent County):

 $\underline{\text{http://www.vdh.virginia.gov/LHD/Chickahominy/documents/2011/pdfs/Demographic\%20summary\%202011.pdf}$

Community Commons website: https://www.communitycommons.org/

Capital Region Collaborative, RVA Snapshot, 2016: http://www.richmondregional.org/Publications/CRC/2016 RVA Snapshot - CRC - 2016-02-26.pdf

Smart Beginnings Regional Plan for School Readiness, 2017-2020: http://smartbeginningsrva.org/wp-content/uploads/2016/05/RegionalPlanDoc 2017 Final.pdf

United Way of Greater Richmond & Petersburg, Indicators of Community Strength, 2016: http://www.yourunitedway.org/wp-content/uploads/2015/12/UW-GRP CommunityStrength 2016-FINAL.pdf

Data Notes

- xi Virginia Department of Health, Adult Oral Health Access Survey, 2014. Estimates of delayed dental care due to cost with 95% confidence intervals (in order listed): Central region: 30.2% (24.8, 35.6); Virginia overall (with dental insurance): 17.4% (14.6, 20.1); Virginia overall (without dental insurance): 54.7 (38.4, 70.9); Northwest region: 28.3% (23.3, 33.2); Northern region: 18.5% (13.9, 23.1); Southwest region: 31.5% (26.4, 36.7); Eastern region: 30.8% (25.0, 36.6). Data weighted at population level.
- vii Virginia Department of Health, Adult Oral Health Access Survey, 2014. Estimates of inability to work or do regular activities due to dental pain with 95% confidence intervals (in order listed): Central region: 14.9% (10.5, 19.3); Virginia overall: 10.9% (9.2, 12.6); Northwest region: 7.8% (4.8, 10.9); Northern region: 8.9% (5.4, 12.4); Southwest region: 13.0% (9.2, 16.8); Eastern region: 10.4% (6.8, 14.1). Data weighted at population level.
- viii Virginia Department of Health, Adult Oral Health Access Survey, 2014. Estimates of inability to sleep due to dental pain with 95% confidence intervals (in order listed): Central region: 14.8% (10.5, 19.2); Virginia overall: 11.7% (9.9, 13.5); Northwest region: 10.2% (6.9, 13.5); Northern region: 8.0% (4.5, 11.5); Southwest region: 16.1% (11.9, 20.3); Eastern region: 11.4% (7.2, 15.5). Data weighted at population level.
- xiv Centers for Disease Control and Prevention (CDC), Behavioral Risk Factor Surveillance System, 2015. Estimates of adult past year dental visit with 95% confidence intervals (in order listed): Central region: 70.0% (66.8, 73.2); Virginia overall: 72.4% (71.0, 73.8); Northwest region: 71.1% (67.7, 74.4); NOVA region: 80.9 (77.9, 84.0); Southwest region: 63.4% (60.4, 66.4); Eastern region: 72.1% (69.1, 75.0). Data weighted at population level. Significantly higher in Northern region compared to other regions.

¹ Virginia Department of Health. Virginia Statewide Basic Screening Survey of Third Grade Children, 2014-2015. Estimates of caries prevalence with 95% confidence intervals (in order listed): Central region: 50.1% (42.3, 57.8); Virginia overall: 47.2% (44.9, 49.6); Northwest region: 62.6% (55.4, 69.7); NOVA region: 38.0% (34.4, 41.6); Southwest region: 54.9% (48.0, 61.7); Eastern region: 43.4% (40.2, 46.6). Data weighted at population level.

[&]quot;Virginia Department of Health. Virginia Statewide Basic Screening Survey of Third Grade Children, 2014-2015. Estimates of sealant prevalence with 95% confidence intervals (in order listed): Central region: 53.9% (47.8, 59.9); Virginia overall: 52.0% (49.5, 54.5); Northwest region: 54.4% (47.2, 61.7); NOVA region: 55.9% (51.7, 60.1); Southwest region: 54.9% (38.8, 52.4); Eastern region: 47.5% (42.8, 52.2). Data weighted at population level.

iii Virginia Department of Medical Assistance Services. Virginia *Smiles for Children* – State Fiscal Year 2015 Pediatric Dental Participation Report. Regions aggregated based on health planning region boundaries, although they do not exactly overlap.

^{iv} Virginia Department of Medical Assistance Services. Virginia *Smiles for Children* – State Fiscal Year 2015 Pediatric Dental Participation Report. Regions aggregated based on health planning region boundaries, although they do not exactly overlap.

^v Centers for Disease Control and Prevention (CDC), Behavioral Risk Factor Surveillance System, 2015. Estimates of tooth loss among adults 45-64 with 95% confidence intervals (in order listed): Central region: 53.9% (48.9, 58.9); Virginia overall: 49.6% (47.3, 51.9); Northwest region: 50.0% (44.9, 55.1); NOVA region: 35.7% (30.1, 41.3); Southwest region: 61.0% (56.8, 65.1); Eastern region: 55.0% (50.7, 59.4). Data weighted at population level.

vi Centers for Disease Control and Prevention (CDC), Behavioral Risk Factor Surveillance System, 2013. Estimates of adult dental coverage with 95% confidence intervals (in order listed): Central region: 34.8% (31.7, 37.9); Virginia overall: 37.7% (36.2, 39.2); Northwest region: 39.5% (36.1, 43.0); NOVA region: 28.4% (24.4, 32.3); Southwest region: 51.9% (48.9, 54.8); Eastern region: 34.7% (31.6, 37.8). Data weighted at population level.

vii Virginia Department of Medical Assistance Services, 2016.

viii CDC, Water Fluoridation Reporting System, 2016.

^{ix} Virginia Department of Health, Adult Oral Health Access Survey, 2014. Estimates of need for dental cleaning with 95% confidence intervals (in order listed): Central region: 37.1% (31.6, 42.7); Northwest region: 41.6% (36.3, 47.0); Northern region: 39.8% (33.9, 45.7); Southwest region: 42.7% (37.2, 48.2); Eastern region: 42.3% (36.3, 48.3). Data weighted at population level.

^{*} Virginia Department of Health, Adult Oral Health Access Survey, 2014. Estimates of immediate need for dental care with 95% confidence intervals (in order listed): Central region: 25.6% (20.5, 30.8); Northwest region: 18.5% (14.3, 22.6); Northern region: 14.3% (10.3, 18.3); Southwest region: 23.8% (19.1, 28.5); Eastern region: 18.2% (13.6, 22.7). Data weighted at population level.