Indicator 28: Visited a Dentist, Dental Hygienist or Dental Clinic in the Past Year

Internal variable name: outc28_dentist

Section 1: Definition

Definition: Adults who have visited a dentist, dental hygienist or dental clinic within the past year

Section 2: Predictive models

	Mixed, demos only	Logit, no area effects	Mixed with area covariates
	b/se	b/se	b/se
Outcome 28: Visited a dentist, dental hygienist or dental clinic in the past year			
Non-Hispanic Black vs. Non-Hispanic White	-0.4491***	-0.4070***	-0.4070***
	(0.1021)	(0.0878)	(0.0981)
Non-Hispanic Asian vs. Non-Hispanic White	-0.3434	-0.3848*	-0.3848
	(0.2253)	(0.1932)	(0.2242)
Non-Hispanic Other vs. Non-Hispanic White	-0.4146**	-0.4025**	-0.4025**
	(0.1295)	(0.1434)	(0.1274)
Hispanic vs. Non-Hispanic White	-0.5168**	-0.5744***	-0.5744**
	(0.1709)	(0.1521)	(0.1716)
Female	0.1746**	0.1857**	0.1857**
	(0.0638)	(0.0647)	(0.0634)
Age 18-24 vs. 65+	0.0009	0.0210	0.0210
	(0.1240)	(0.1318)	(0.1266)
Age 25-34 vs. 65+	-0.1650	-0.1608	-0.1608
	(0.1191)	(0.1037)	(0.1209)
Age 35-44 vs. 65+	-0.0982	-0.0872	-0.0872
	(0.0981)	(0.0975)	(0.0989)
Age 45-54 vs. 65+	0.0437	0.0302	0.0302
	(0.0903)	(0.0896)	(0.0888)
Age 55-64 vs. 65+	0.1238	0.1253	0.1253
	(0.0853)	(0.0842)	(0.0847)
% education Bachelor+, population 25+ years old		0.0140***	0.0140***
		(0.0037)	(0.0033)
% below 1.5x poverty line		-0.0230***	-0.0230***
		(0.0051)	(0.0046)
Crude mortality rate of nephritis nephrotic syndrome per 10,000		0.0934**	0.0934***
		(0.0299)	(0.0262)

Esophagus Cancer Female Rate		-0.0202	-0.0202
		(0.0139)	(0.0124)
Crude mortality rate of chronic lower respiratory disease per 10,000		-0.0667***	-0.0667***
		(0.0196)	(0.0157)
Historic SAE: ever smoking rate		0.0592	0.0592
		(0.0692)	(0.0526)
Square of {Historic SAE: ever smoking rate}		-0.0005	-0.0005
		(0.0008)	(0.0006)
Stomach Cancer Female Rate		0.0124	0.0124
		(0.0160)	(0.0159)
Crude mortality rate of Alzheimer's disease per 10,000		0.0327	0.0327
		(0.0281)	(0.0272)
{Stomach Cancer Female Rate} interacted with {Crude mortality rate of Alzheimer's disease per 10,000}		0.0016	0.0016
		(0.0049)	(0.0051)
Intercept	0.8182***	-0.7804	-0.7806
	(0.0981)	(1.6015)	(1.1779)
Area effect variance	0.1014**		0.0000
	(0.0327)		(0.0000)

Number of alternative models used to estimate model error = 15.

Section 3: Results

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Augusta County	51015	65.7%	(56.2%, 74.2%)	67.3%	(64.2%, 70.3%)
Bath County	51017	88.2%	(53.3%, 96.3%)	79.3%	(67.8%, 87.5%)
Caroline County	51033	86.0%	(65.1%, 95.3%)	69.9%	(66.3%, 73.3%)
Clarke County	51043	73.4%	(45.4%, 90.1%)	77.8%	(73.4%, 81.7%)
Culpeper County	51047	57.2%	(42.2%, 71.0%)	67.9%	(63.9%, 71.7%)
Fauquier County	51061	80.6%	(68.8%, 88.7%)	74.6%	(71.5%, 77.5%)
Frederick County	51069	69.7%	(59.0%, 78.7%)	69.8%	(65.9%, 73.5%)
Highland County	51091	100.0%	(12.7%, 100.0%)	83.3%	(63.6%, 93.4%)
King George County	51099	88.2%	(62.1%, 97.2%)	78.3%	(74.3%, 81.9%)
Madison County	51113	69.8%	(47.0%, 85.7%)	65.9%	(60.6%, 70.9%)
Orange County	51137	60.1%	(41.7%, 76.1%)	67.4%	(63.7%, 70.9%)
Page County	51139	50.6%	(23.2%, 77.6%)	61.6%	(56.4%, 66.6%)
Rappahannock County	51157	46.3%	(21.9%, 72.6%)	64.1%	(54.4%, 72.9%)
Rockbridge County	51163	67.4%	(45.8%, 83.5%)	72.6%	(68.8%, 76.0%)
Rockingham County	51165	74.2%	(62.2%, 83.4%)	74.1%	(70.1%, 77.6%)
Shenandoah County	51171	58.3%	(41.6%, 73.2%)	63.6%	(59.3%, 67.6%)
Spotsylvania County	51177	61.4%	(48.6%, 72.8%)	67.9%	(63.4%, 72.2%)
Stafford County	51179	67.2%	(56.6%, 76.2%)	75.6%	(71.5%, 79.3%)
Warren County	51187	60.9%	(40.1%, 78.3%)	70.1%	(66.5%, 73.5%)
Buena Vista City	51530	100.0%	(10.4%, 100.0%)	59.1%	(54.3%, 63.7%)
Fredericksburg City	51630	61.5%	(36.5%, 81.6%)	71.2%	(66.5%, 75.4%)
Harrisonburg City	51660	15.6%	(6.0%, 47.6%)	60.2%	(52.2%, 67.6%)
Lexington City	51678	100.0%	(0.6%, 100.0%)	75.3%	(69.2%, 80.5%)
Staunton City	51790	100.0%	(57.8%, 100.0%)	78.9%	(63.0%, 89.1%)
Waynesboro City	51820	70.2%	(38.3%, 90.0%)	65.1%	(61.4%, 68.6%)
Winchester City	51840	50.2%	(25.9%, 74.4%)	56.7%	(50.9%, 62.3%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Albemarle County	51003	75.4%	(64.1%, 84.1%)	75.1%	(71.0%, 78.8%)
Alleghany County	51005	59.0%	(40.4%, 75.4%)	65.0%	(60.6%, 69.0%)
Amherst County	51009	77.6%	(57.4%, 89.9%)	69.0%	(63.0%, 74.5%)
Appomattox County	51011	53.7%	(31.3%, 74.7%)	62.7%	(58.4%, 66.9%)
Arlington City	51013	79.7%	(70.7%, 86.5%)	80.6%	(76.5%, 84.2%)
Bedford County	51019	68.0%	(55.2%, 78.6%)	73.1%	(69.9%, 76.0%)
Botetourt County	51023	79.3%	(63.2%, 89.5%)	76.1%	(70.2%, 81.1%)
Campbell County	51031	66.1%	(48.5%, 80.2%)	66.0%	(62.5%, 69.4%)
Craig County	51045	87.6%	(21.8%, 98.1%)	76.5%	(60.4%, 87.4%)
Fairfax County	51059	79.4%	(73.7%, 84.1%)	78.5%	(76.3%, 80.5%)
Fluvanna County	51065	53.3%	(30.1%, 75.2%)	69.6%	(65.6%, 73.4%)
Greene County	51079	58.6%	(33.5%, 79.9%)	68.8%	(64.2%, 73.0%)
Loudoun County	51107	77.0%	(69.7%, 83.0%)	78.3%	(75.7%, 80.6%)
Louisa County	51109	76.4%	(58.2%, 88.3%)	68.7%	(65.2%, 72.0%)
Nelson County	51125	67.0%	(43.2%, 84.4%)	72.2%	(67.3%, 76.6%)
Prince William County	51153	68.8%	(61.2%, 75.5%)	69.2%	(65.4%, 72.7%)
Roanoke County	51161	77.6%	(68.5%, 84.7%)	75.0%	(72.0%, 77.7%)
Alexandria City	51510	69.2%	(56.1%, 79.9%)	78.7%	(74.8%, 82.2%)
Charlottesville City	51540	70.2%	(40.2%, 89.2%)	70.2%	(64.7%, 75.1%)
Covington City	51580	100.0%	(0.6%, 100.0%)	70.6%	(58.5%, 80.3%)
Fairfax City	51600	78.9%	(68.2%, 86.7%)	73.3%	(69.0%, 77.1%)
Falls Church City	51610	98.8%	(37.2%, 99.6%)	84.9%	(80.5%, 88.4%)
Lynchburg City	51680	63.7%	(47.0%, 77.6%)	59.6%	(53.7%, 65.2%)
Manassas City	51683	86.8%	(54.0%, 96.4%)	61.1%	(54.9%, 67.0%)
Manassas Park City	51685	81.9%	(2.5%, 99.6%)	42.7%	(18.8%, 70.7%)
Salem City	51775	47.2%	(14.5%, 82.5%)	68.8%	(62.5%, 74.4%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Bland County	51021	57.4%	(20.6%, 87.5%)	71.6%	(66.0%, 76.6%)
Buchanan County	51027	51.1%	(35.7%, 66.4%)	52.1%	(45.5%, 58.6%)
Carroll County	51035	53.9%	(36.7%, 70.2%)	62.2%	(57.2%, 67.1%)
Dickenson County	51051	48.8%	(30.8%, 67.1%)	39.6%	(30.4%, 49.6%)
Floyd County	51063	65.4%	(44.5%, 81.6%)	68.1%	(63.9%, 72.1%)
Franklin County	51067	68.6%	(52.9%, 81.0%)	67.7%	(64.8%, 70.4%)
Giles County	51071	70.9%	(49.3%, 86.0%)	77.5%	(71.4%, 82.7%)
Grayson County	51077	72.0%	(44.4%, 89.2%)	61.9%	(50.9%, 71.8%)
Henry County	51089	58.5%	(44.9%, 70.9%)	59.8%	(56.1%, 63.5%)
Lee County	51105	35.5%	(18.6%, 57.0%)	50.0%	(44.5%, 55.5%)
Montgomery County	51121	62.2%	(48.9%, 73.8%)	67.0%	(61.2%, 72.3%)
Patrick County	51141	67.2%	(45.3%, 83.5%)	58.4%	(54.4%, 62.3%)
Pittsylvania County	51143	61.9%	(51.5%, 71.3%)	62.3%	(59.0%, 65.6%)
Pulaski County	51155	66.5%	(51.4%, 78.9%)	70.2%	(65.1%, 74.7%)
Russell County	51167	63.9%	(46.2%, 78.4%)	62.9%	(58.8%, 66.9%)
Scott County	51169	58.2%	(43.6%, 71.4%)	57.9%	(54.1%, 61.7%)
Smyth County	51173	64.9%	(47.4%, 79.2%)	61.5%	(58.2%, 64.8%)
Tazewell County	51185	59.4%	(45.7%, 71.9%)	60.3%	(55.7%, 64.7%)
Washington County	51191	64.4%	(50.3%, 76.4%)	72.3%	(69.0%, 75.5%)
Wise County	51195	57.7%	(44.4%, 69.9%)	55.9%	(49.6%, 62.0%)
Wythe County	51197	55.6%	(39.3%, 70.8%)	63.0%	(58.3%, 67.4%)
Bristol City	51520	57.9%	(23.3%, 86.2%)	56.7%	(48.9%, 64.1%)
Danville City	51590	61.1%	(37.6%, 80.4%)	61.0%	(56.0%, 65.8%)
Galax City	51640	17.8%	(2.3%, 78.9%)	55.9%	(40.8%, 70.1%)
Martinsville City	51690	49.3%	(15.2%, 84.1%)	47.7%	(40.3%, 55.1%)
Norton City	51720	57.4%	(6.5%, 96.3%)	48.4%	(39.1%, 57.8%)
Radford City	51750	53.1%	(13.3%, 89.3%)	51.7%	(42.2%, 61.0%)
Roanoke City	51770	62.2%	(51.3%, 72.0%)	64.2%	(60.9%, 67.3%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Amelia County	51007	63.5%	(32.9%, 86.0%)	57.1%	(51.6%, 62.5%)
Brunswick County	51025	46.7%	(25.0%, 69.7%)	57.0%	(47.5%, 66.0%)
Buckingham County	51029	61.9%	(38.4%, 80.9%)	57.5%	(51.7%, 63.0%)
Charles City County	51036	73.1%	(37.1%, 92.6%)	61.4%	(55.9%, 66.7%)
Charlotte County	51037	61.9%	(30.6%, 85.7%)	70.9%	(64.9%, 76.4%)
Chesterfield County	51041	70.6%	(63.7%, 76.6%)	72.8%	(70.4%, 75.1%)
Cumberland County	51049	80.7%	(49.7%, 94.7%)	58.4%	(51.6%, 65.0%)
Dinwiddie County	51053	79.6%	(57.4%, 91.9%)	64.0%	(59.6%, 68.1%)
Goochland County	51075	84.5%	(65.9%, 93.9%)	80.3%	(76.9%, 83.4%)
Greensville County	51081	76.9%	(43.7%, 93.4%)	65.2%	(58.3%, 71.5%)
Halifax County	51083	69.6%	(55.5%, 80.7%)	62.3%	(58.0%, 66.4%)
Hanover County	51085	81.2%	(70.8%, 88.5%)	77.6%	(74.5%, 80.5%)
Henrico County	51087	75.1%	(68.9%, 80.4%)	72.6%	(69.9%, 75.1%)
Lunenburg County	51111	56.6%	(27.5%, 81.8%)	57.9%	(54.0%, 61.8%)
Mecklenburg County	51117	57.6%	(40.9%, 72.7%)	68.0%	(61.8%, 73.7%)
New Kent County	51127	83.6%	(55.9%, 95.3%)	72.4%	(67.6%, 76.6%)
Nottoway County	51135	67.2%	(40.1%, 86.2%)	53.1%	(47.3%, 58.8%)
Powhatan County	51145	75.8%	(42.3%, 93.1%)	72.9%	(69.1%, 76.4%)
Prince Edward County	51147	44.0%	(23.8%, 66.3%)	51.2%	(45.9%, 56.5%)
Prince George County	51149	78.3%	(62.4%, 88.7%)	64.6%	(59.8%, 69.0%)
Surry County	51181	50.3%	(15.6%, 84.8%)	62.7%	(57.4%, 67.7%)
Sussex County	51183	44.6%	(21.8%, 69.9%)	50.2%	(43.0%, 57.3%)
Colonial Heights City	51570	74.0%	(34.0%, 94.1%)	59.3%	(52.6%, 65.6%)
Emporia City	51595	68.9%	(13.7%, 96.9%)	59.7%	(49.2%, 69.4%)
Hopewell City	51670	51.2%	(24.9%, 76.8%)	54.4%	(50.0%, 58.7%)
Petersburg City	51730	56.5%	(38.9%, 72.6%)	55.2%	(50.4%, 59.8%)
Richmond City	51760	63.2%	(54.2%, 71.3%)	64.6%	(60.9%, 68.1%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Accomack County	51001	74.2%	(59.5%, 84.9%)	66.5%	(60.1%, 72.4%)
Essex County	51057	79.0%	(44.1%, 94.7%)	69.9%	(55.4%, 81.3%)
Gloucester County	51073	70.9%	(52.1%, 84.5%)	70.8%	(67.5%, 73.9%)
Isle of Wight County	51093	77.4%	(61.5%, 88.0%)	69.9%	(66.3%, 73.3%)
James City County	51095	73.8%	(60.1%, 84.0%)	79.7%	(76.1%, 82.9%)
King and Queen County	51097	45.3%	(10.7%, 85.1%)	63.0%	(56.4%, 69.1%)
King William County	51101	53.7%	(29.0%, 76.7%)	63.7%	(59.7%, 67.4%)
Lancaster County	51103	51.5%	(25.7%, 76.6%)	76.6%	(67.1%, 84.1%)
Mathews County	51115	73.7%	(51.0%, 88.3%)	69.5%	(61.7%, 76.3%)
Middlesex County	51119	71.4%	(33.4%, 92.6%)	78.0%	(73.1%, 82.2%)
Northampton County	51131	77.9%	(57.3%, 90.3%)	67.3%	(60.6%, 73.4%)
Northumberland County	51133	75.5%	(49.8%, 90.6%)	80.1%	(74.0%, 85.1%)
Richmond County	51159	41.5%	(25.1%, 60.0%)	58.6%	(52.4%, 64.4%)
Southampton County	51175	70.0%	(40.0%, 89.1%)	60.4%	(55.0%, 65.5%)
Westmoreland County	51193	36.2%	(16.7%, 61.6%)	60.5%	(56.5%, 64.4%)
York County	51199	75.8%	(61.1%, 86.2%)	75.8%	(72.2%, 79.0%)
Chesapeake City	51550	77.5%	(70.0%, 83.6%)	70.8%	(67.9%, 73.6%)
Franklin City	51620	67.3%	(44.5%, 84.1%)	64.8%	(59.2%, 70.1%)
Hampton City	51650	69.8%	(60.3%, 77.9%)	64.4%	(61.0%, 67.7%)
Newport News City	51700	63.3%	(52.6%, 72.9%)	63.9%	(61.0%, 66.7%)
Norfolk City	51710	66.1%	(57.2%, 74.0%)	60.9%	(57.5%, 64.3%)
Poquoson City	51735	62.5%	(19.2%, 92.1%)	79.5%	(74.5%, 83.7%)
Portsmouth City	51740	61.4%	(49.5%, 72.0%)	64.6%	(61.1%, 67.9%)
Suffolk City	51800	61.1%	(48.1%, 72.7%)	68.3%	(65.3%, 71.3%)
Virginia Beach City	51810	72.3%	(65.6%, 78.1%)	71.3%	(68.8%, 73.7%)
Williamsburg City	51830	66.7%	(22.3%, 93.4%)	68.7%	(61.9%, 74.8%)

Section 4: Graphical representation

Dental visit past 12 months
Alexandria, Fairfax, Arlington, Loudon, Prince William HDs
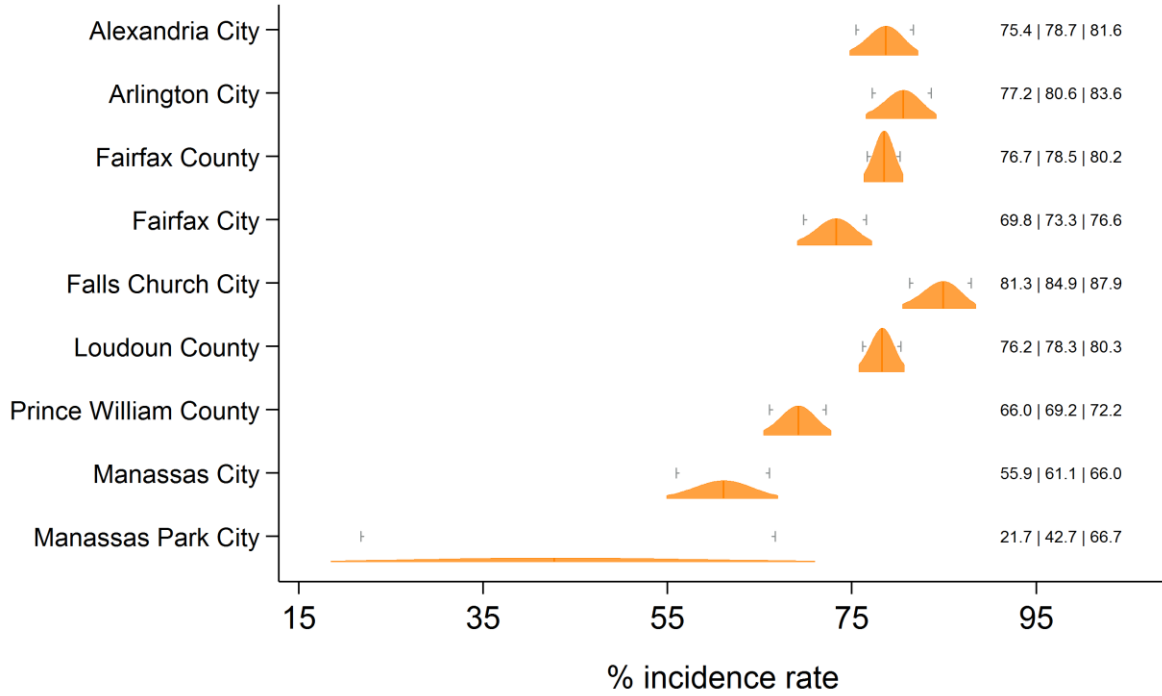
Alexandria City	75.4	78.7	81.6
Arlington City	77.2	80.6	83.6
Fairfax County	76.7	78.5	80.2
Fairfax City	69.8	73.3	76.6
Falls Church City	81.3	84.9	87.9
Loudoun County	76.2	78.3	80.3
Prince William County	66.0	69.2	72.2
Manassas City	55.9	61.1	66.0
Manassas Park City	21.7	42.7	66.7

% incidence rate

Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval

Dental visit past 12 months
Alleghany, Roanoke and Central Virginia HDs
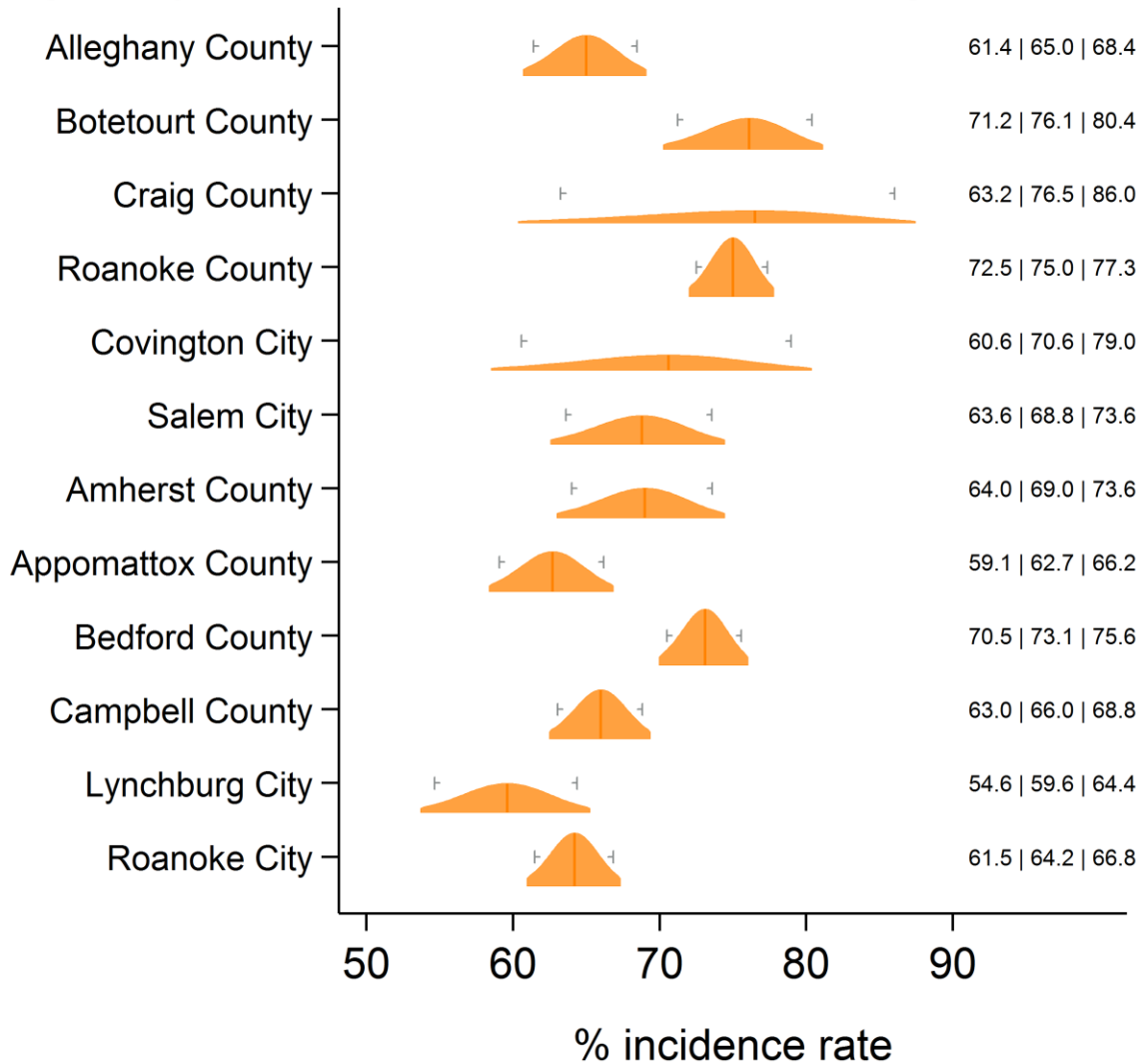
County		Values
Alleghany County		61.4 | 65.0 | 68.4
Botetourt County		71.2 | 76.1 | 80.4
Craig County		63.2 | 76.5 | 86.0
Roanoke County		72.5 | 75.0 | 77.3
Covington City		60.6 | 70.6 | 79.0
Salem City		63.6 | 68.8 | 73.6
Amherst County		64.0 | 69.0 | 73.6
Appomattox County		59.1 | 62.7 | 66.2
Bedford County		70.5 | 73.1 | 75.6
Campbell County		63.0 | 66.0 | 68.8
Lynchburg City		54.6 | 59.6 | 64.4
Roanoke City		61.5 | 64.2 | 66.8

% incidence rate

Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval

Dental visit past 12 months
Pittsylvania/Danville, Southside and West Piedmont HDs

County	1-sided 95% LCB	Point Estimate	1-sided 95% UCB
Pittsylvania County	59.5	62.3	65.0
Danville City	56.8	61.0	65.0
Franklin County	65.3	67.7	70.0
Henry County	56.6	59.8	62.9
Patrick County	55.0	58.4	61.7
Martinsville City	41.5	47.7	54.0
Brunswick County	49.1	57.0	64.6
Halifax County	58.7	62.3	65.8
Mecklenburg County	62.8	68.0	72.8

% incidence rate

Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval

Dental visit past 12 months
Chesterfield, Chickahominy, Henrico and Richmond HDs
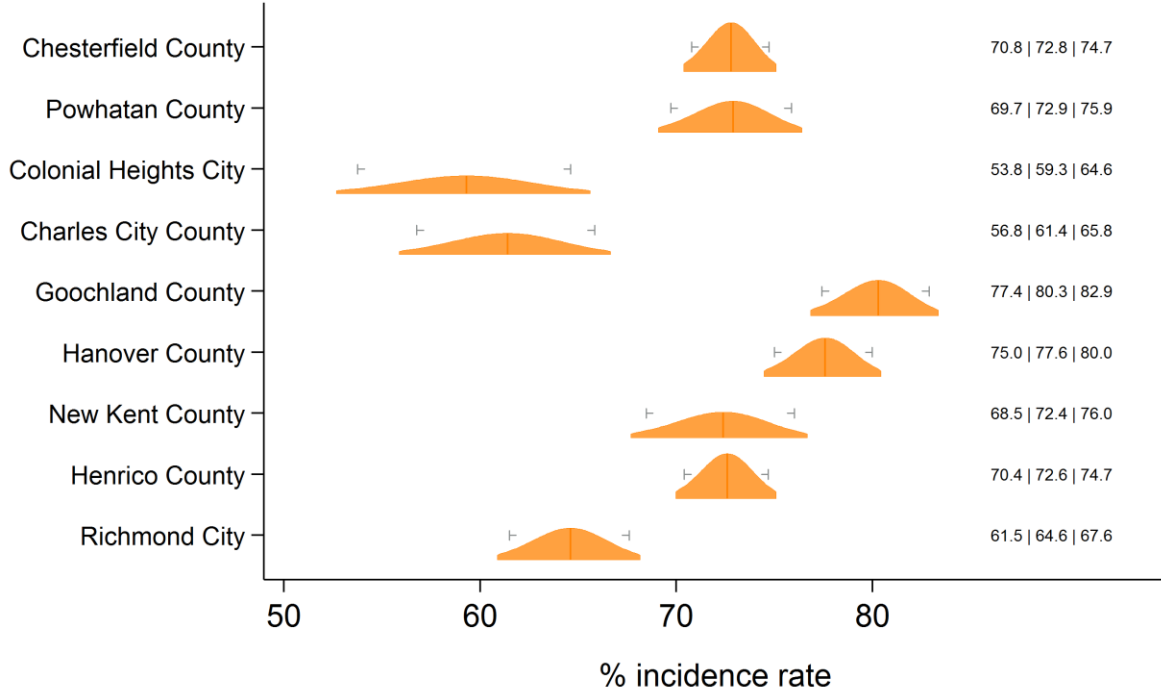
Location	1-sided 95% LCB	Point Estimate	1-sided 95% UCB
Chesterfield County	70.8	72.8	74.7
Powhatan County	69.7	72.9	75.9
Colonial Heights City	53.8	59.3	64.6
Charles City County	56.8	61.4	65.8
Goochland County	77.4	80.3	82.9
Hanover County	75.0	77.6	80.0
New Kent County	68.5	72.4	76.0
Henrico County	70.4	72.6	74.7
Richmond City	61.5	64.6	67.6

% incidence rate

Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval

Dental visit past 12 months
Norfolk,Portsmouth,Chesapeake,VA Beach,W. Tidewater HDs

Location	LCB | Point | UCB
Chesapeake City	68.4 | 70.8 | 73.1
Norfolk City	58.0 | 60.9 | 63.7
Isle of Wight County	66.9 | 69.9 | 72.7
Southampton County	55.9 | 60.4 | 64.7
Franklin City	60.1 | 64.8 | 69.2
Suffolk City	65.7 | 68.3 | 70.7
Virginia Beach City	69.2 | 71.3 | 73.3
Portsmouth City	61.7 | 64.6 | 67.4

% incidence rate

Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval
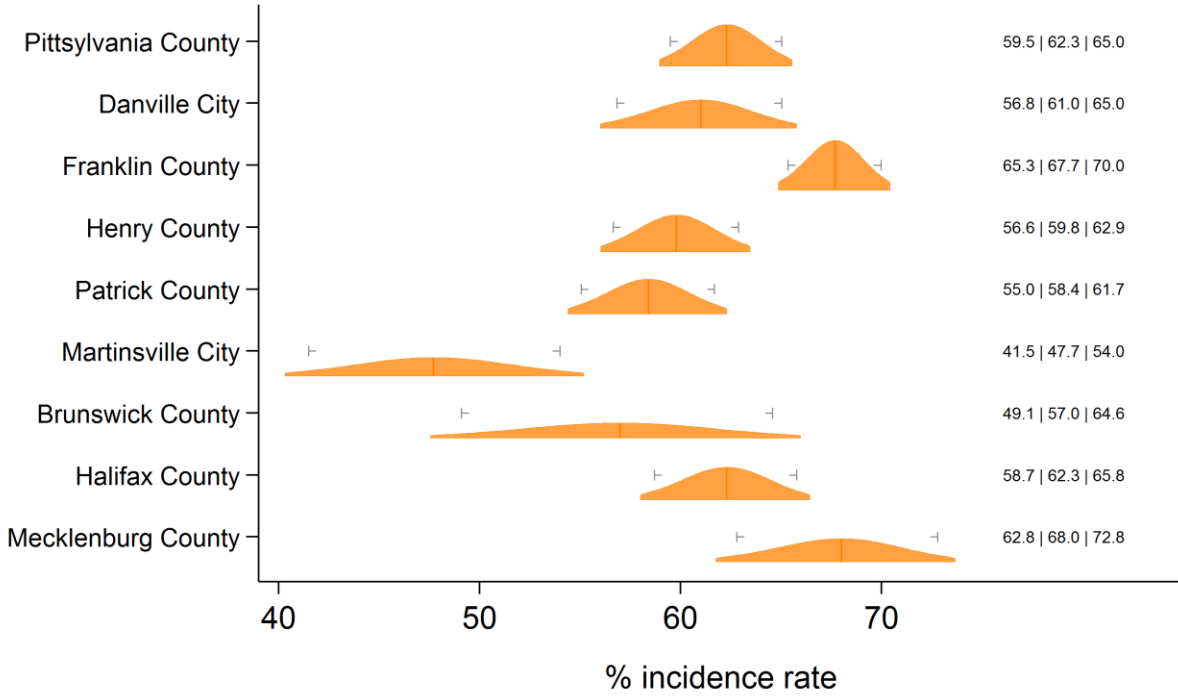
Dental visit past 12 months
Central Shenandoah and Lord Fairfax HDs
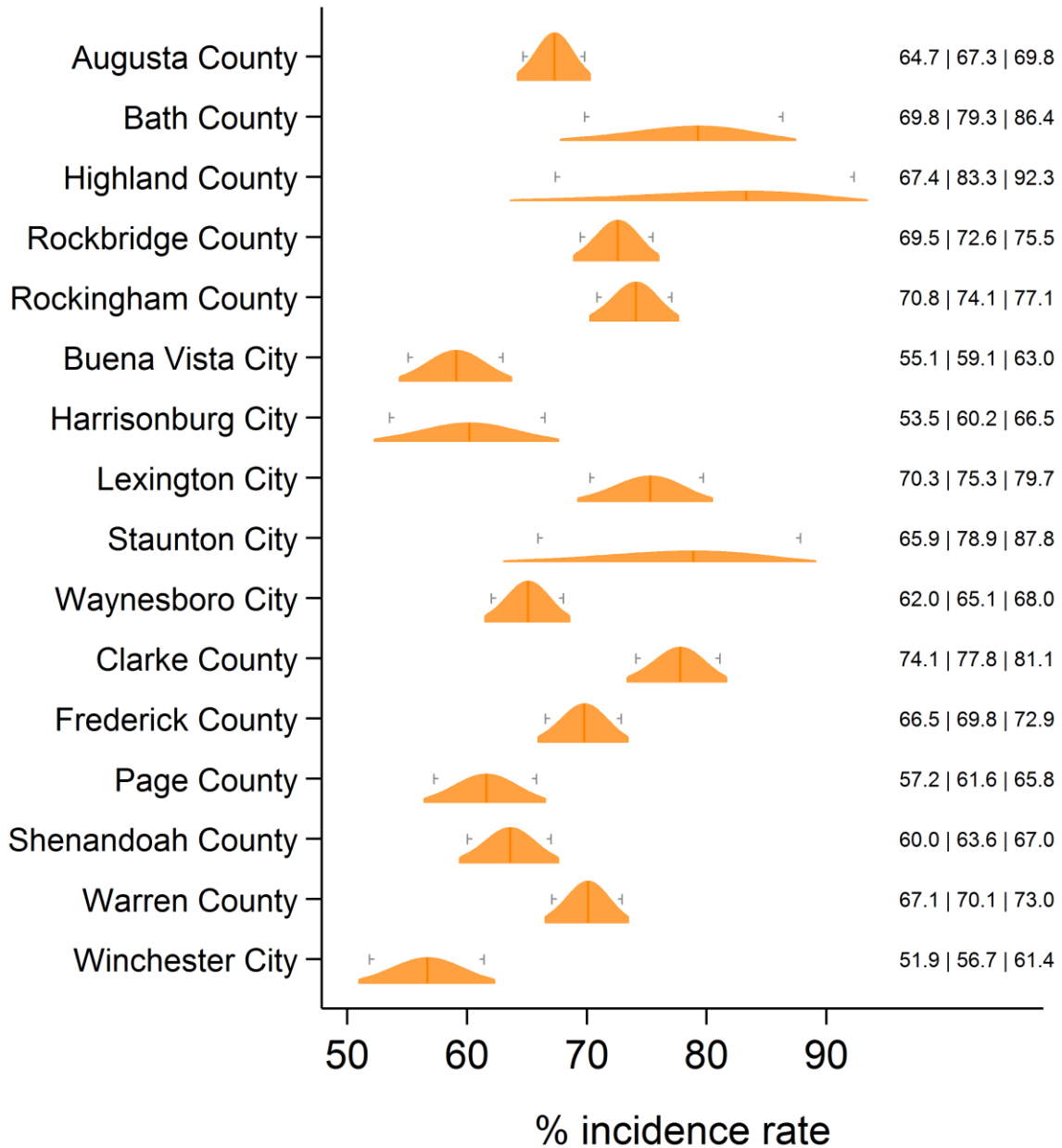
County/City	LCB	Point	UCB
Augusta County	64.7	67.3	69.8
Bath County	69.8	79.3	86.4
Highland County	67.4	83.3	92.3
Rockbridge County	69.5	72.6	75.5
Rockingham County	70.8	74.1	77.1
Buena Vista City	55.1	59.1	63.0
Harrisonburg City	53.5	60.2	66.5
Lexington City	70.3	75.3	79.7
Staunton City	65.9	78.9	87.8
Waynesboro City	62.0	65.1	68.0
Clarke County	74.1	77.8	81.1
Frederick County	66.5	69.8	72.9
Page County	57.2	61.6	65.8
Shenandoah County	60.0	63.6	67.0
Warren County	67.1	70.1	73.0
Winchester City	51.9	56.7	61.4

% incidence rate

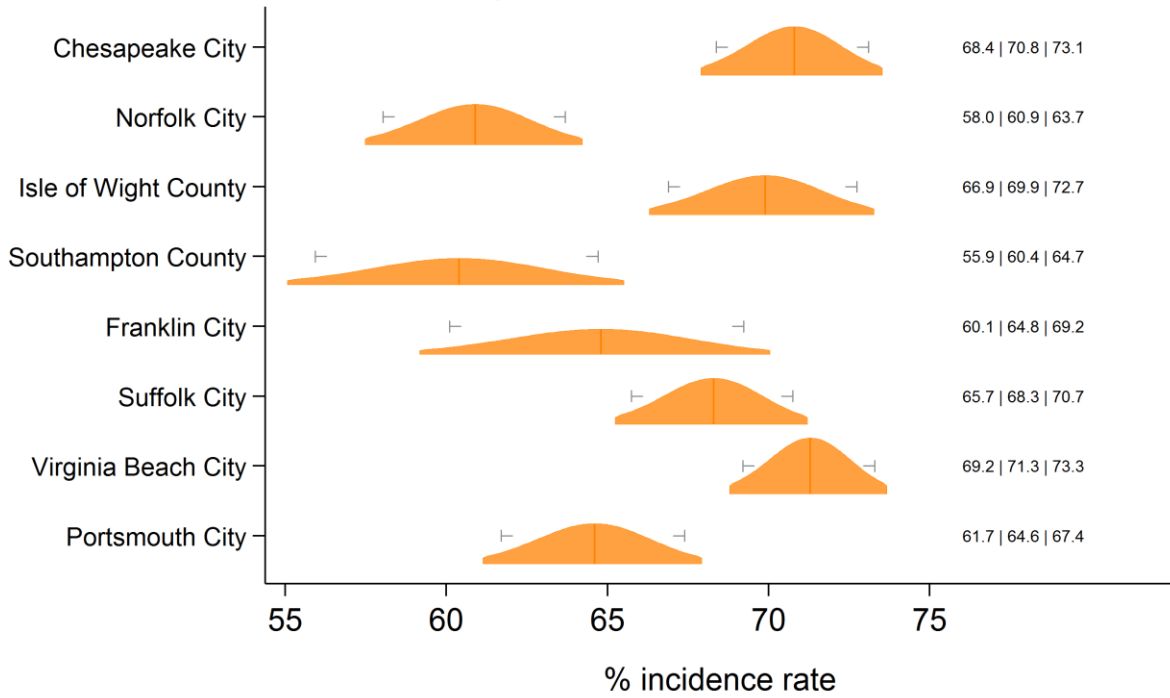Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval

Dental visit past 12 months
Rappahannock/Rapidan and Rappahannock HDs

County	1-sided 95% LCB	Point Estimate	1-sided 95% UCB
Caroline County	66.9	69.9	72.8
King George County	74.9	78.3	81.3
Spotsylvania County	64.1	67.9	71.5
Stafford County	72.2	75.6	78.7
Fredericksburg City	67.3	71.2	74.8
Culpeper County	64.5	67.9	71.1
Fauquier County	72.0	74.6	77.0
Madison County	61.5	65.9	70.1
Orange County	64.3	67.4	70.3
Rappahannock County	56.0	64.1	71.5

% incidence rate

Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval

Dental visit past 12 months
Thomas Jefferson and Piedmont HDs
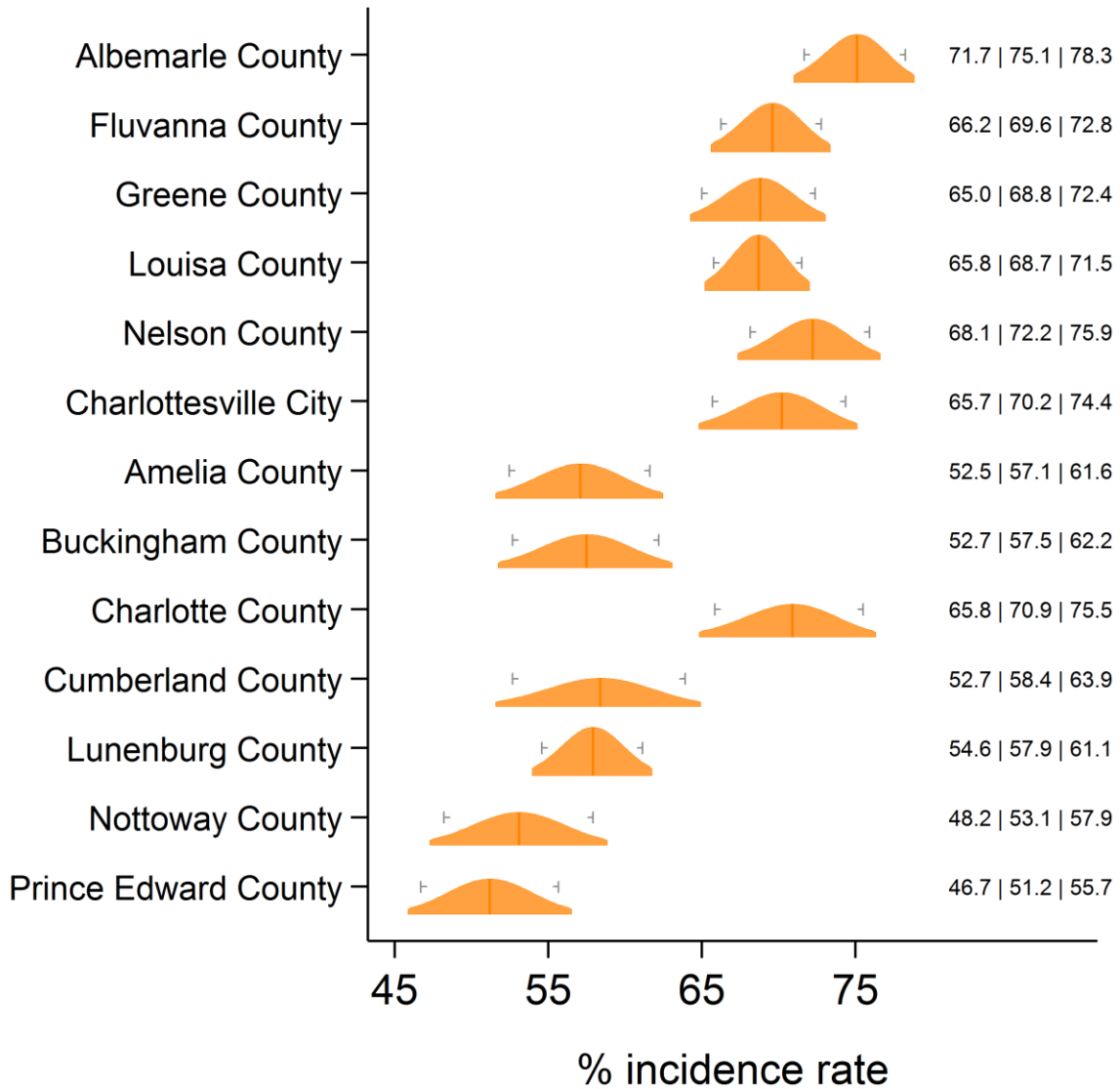
County		Values
Albemarle County		71.7 | 75.1 | 78.3
Fluvanna County		66.2 | 69.6 | 72.8
Greene County		65.0 | 68.8 | 72.4
Louisa County		65.8 | 68.7 | 71.5
Nelson County		68.1 | 72.2 | 75.9
Charlottesville City		65.7 | 70.2 | 74.4
Amelia County		52.5 | 57.1 | 61.6
Buckingham County		52.7 | 57.5 | 62.2
Charlotte County		65.8 | 70.9 | 75.5
Cumberland County		52.7 | 58.4 | 63.9
Lunenburg County		54.6 | 57.9 | 61.1
Nottoway County		48.2 | 53.1 | 57.9
Prince Edward County		46.7 | 51.2 | 55.7

% incidence rate

Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval

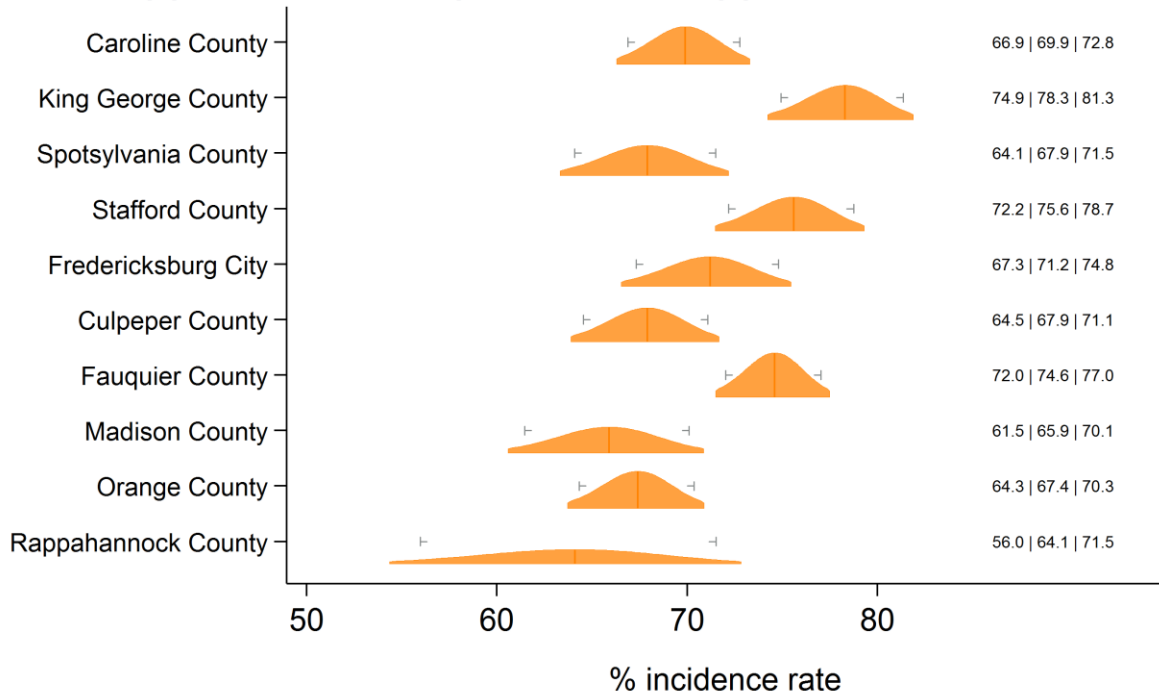Dental visit past 12 months
Cumberland Plateau and Lenowisco HDs

County	1-sided 95% LCB	Point Estimate	1-sided 95% UCB
Buchanan County	46.6	52.1	57.6
Dickenson County	31.8	39.6	47.9
Russell County	59.5	62.9	66.2
Tazewell County	56.5	60.3	64.0
Lee County	45.4	50.0	54.6
Scott County	54.7	57.9	61.0
Wise County	50.7	55.9	61.0
Norton City	40.6	48.4	56.3

% incidence rate

Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval
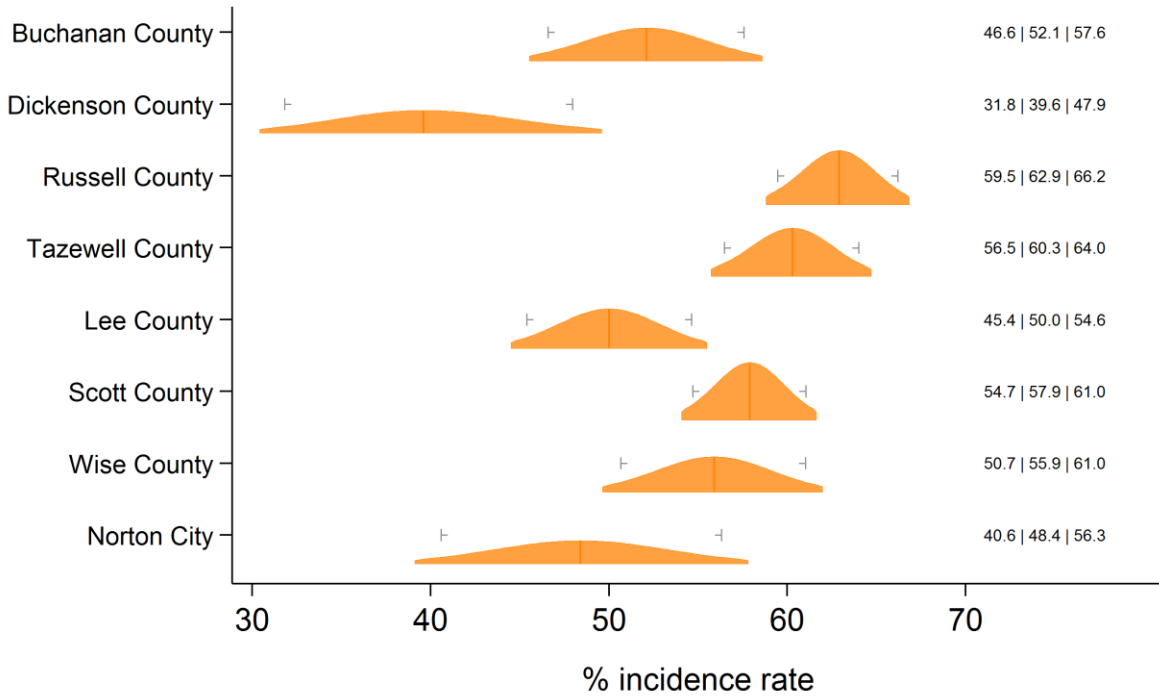
Dental visit past 12 months
New River and Mount Rogers HDs
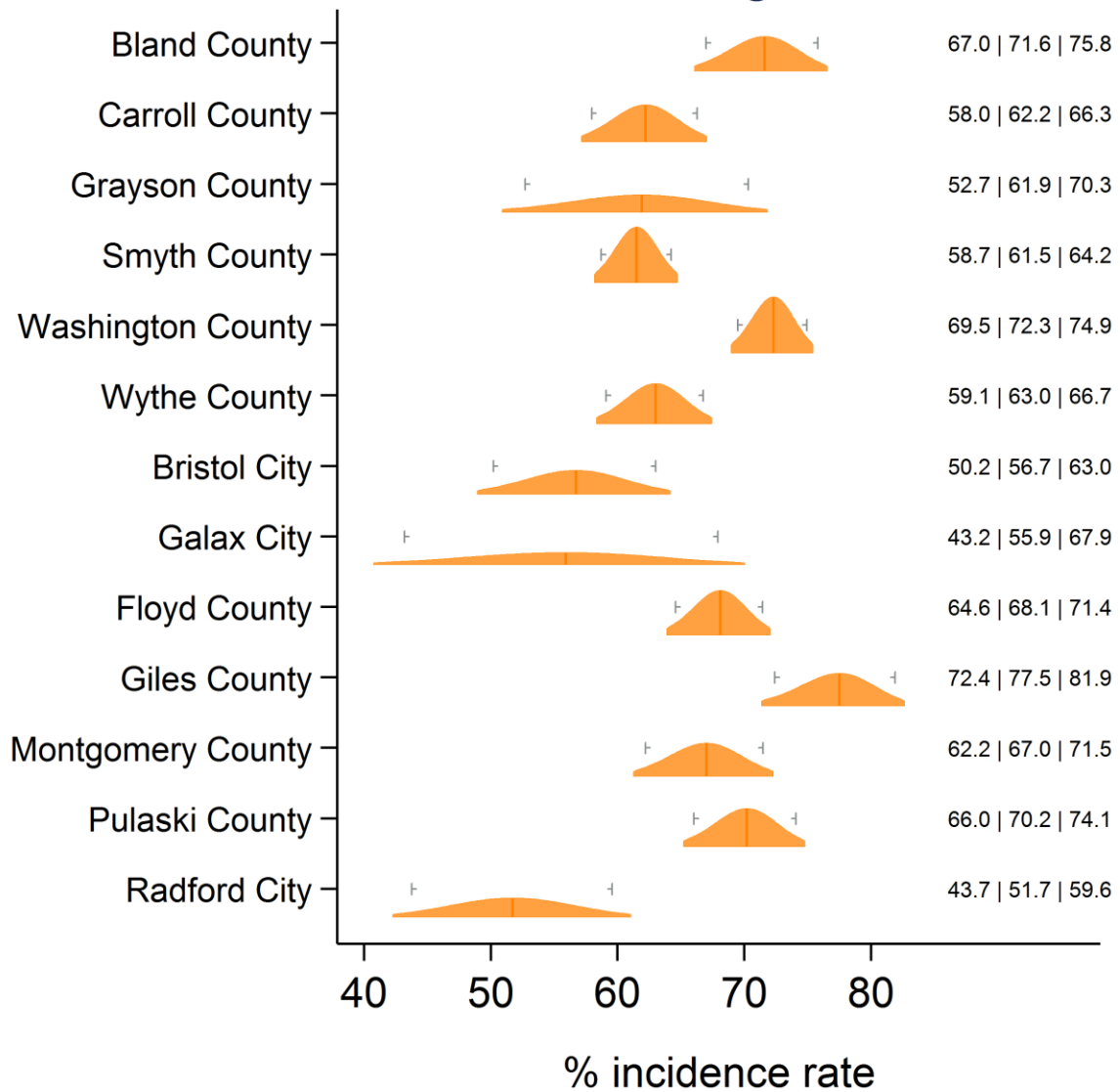
County	1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Bland County	67.0 | 71.6 | 75.8
Carroll County	58.0 | 62.2 | 66.3
Grayson County	52.7 | 61.9 | 70.3
Smyth County	58.7 | 61.5 | 64.2
Washington County	69.5 | 72.3 | 74.9
Wythe County	59.1 | 63.0 | 66.7
Bristol City	50.2 | 56.7 | 63.0
Galax City	43.2 | 55.9 | 67.9
Floyd County	64.6 | 68.1 | 71.4
Giles County	72.4 | 77.5 | 81.9
Montgomery County	62.2 | 67.0 | 71.5
Pulaski County	66.0 | 70.2 | 74.1
Radford City	43.7 | 51.7 | 59.6

% incidence rate

Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval

Dental visit past 12 months
Crater, Peninsula and Hampton HDs
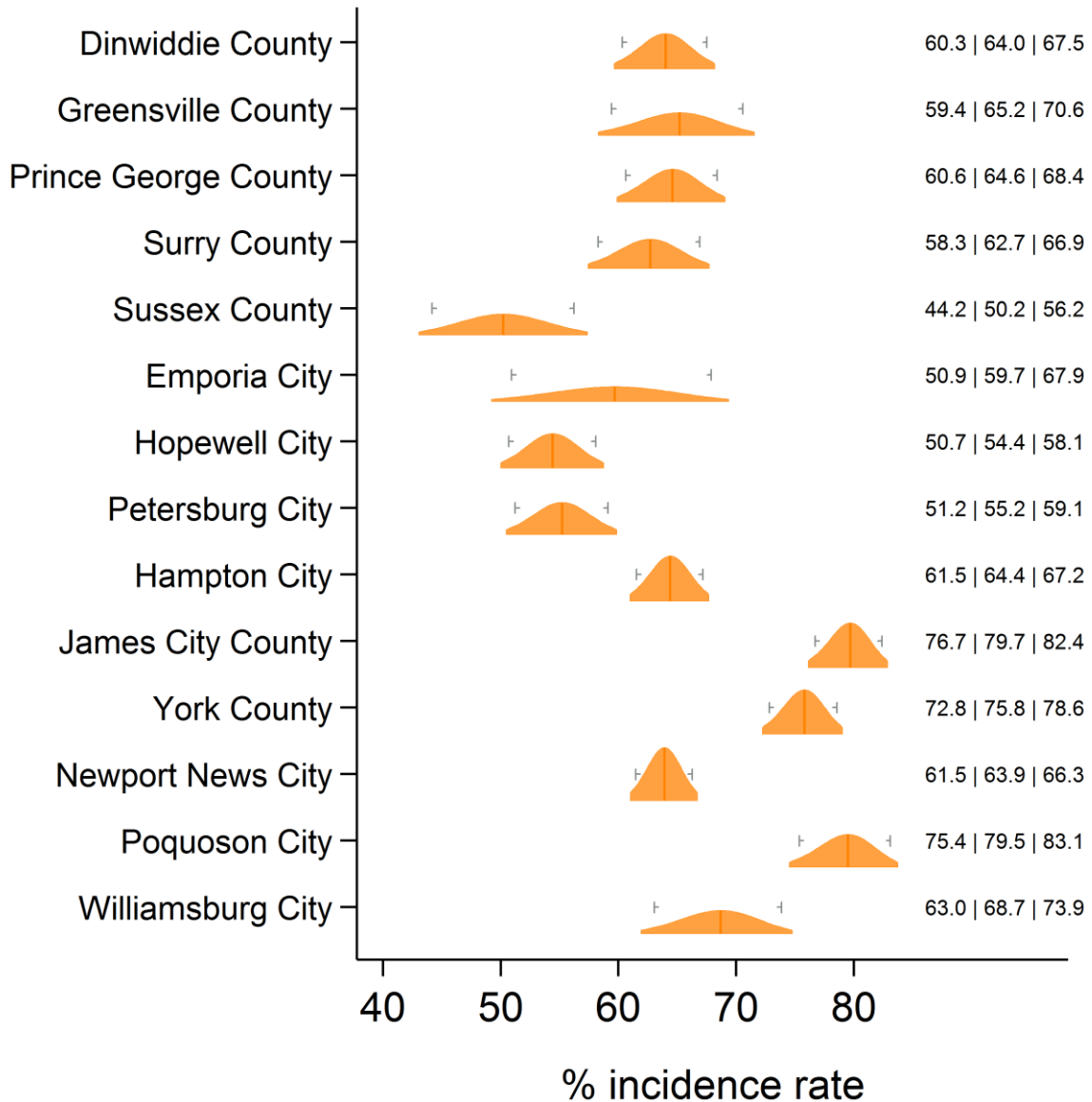
County/City	LCB	Point	UCB
Dinwiddie County	60.3	64.0	67.5
Greensville County	59.4	65.2	70.6
Prince George County	60.6	64.6	68.4
Surry County	58.3	62.7	66.9
Sussex County	44.2	50.2	56.2
Emporia City	50.9	59.7	67.9
Hopewell City	50.7	54.4	58.1
Petersburg City	51.2	55.2	59.1
Hampton City	61.5	64.4	67.2
James City County	76.7	79.7	82.4
York County	72.8	75.8	78.6
Newport News City	61.5	63.9	66.3
Poquoson City	75.4	79.5	83.1
Williamsburg City	63.0	68.7	73.9

% incidence rate

Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval

Dental visit past 12 months
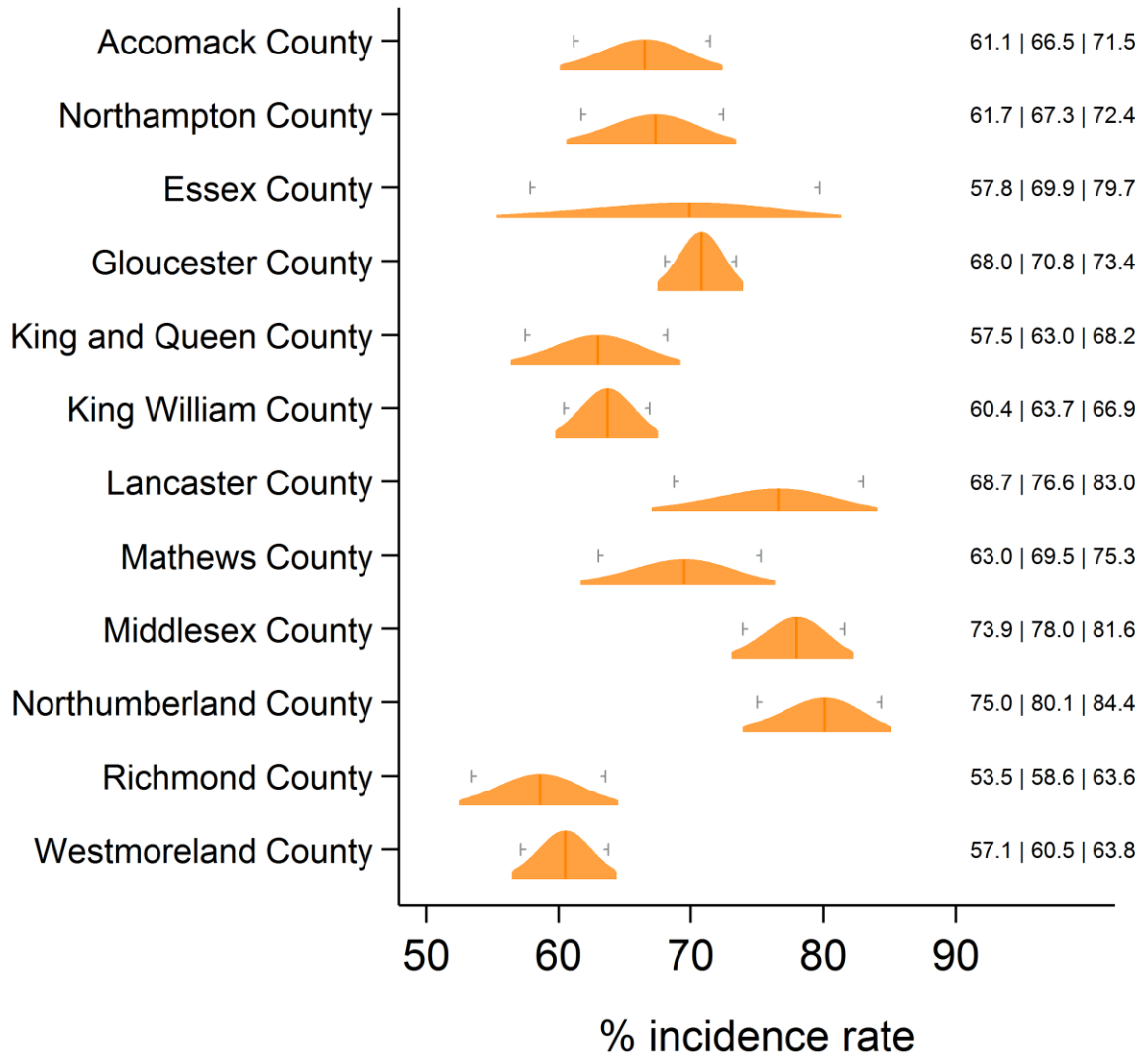## Eastern Shore and Three Rivers HDs

County	LCB | Point | UCB
Accomack County	61.1 | 66.5 | 71.5
Northampton County	61.7 | 67.3 | 72.4
Essex County	57.8 | 69.9 | 79.7
Gloucester County	68.0 | 70.8 | 73.4
King and Queen County	57.5 | 63.0 | 68.2
King William County	60.4 | 63.7 | 66.9
Lancaster County	68.7 | 76.6 | 83.0
Mathews County	63.0 | 69.5 | 75.3
Middlesex County	73.9 | 78.0 | 81.6
Northumberland County	75.0 | 80.1 | 84.4
Richmond County	53.5 | 58.6 | 63.6
Westmoreland County	57.1 | 60.5 | 63.8

% incidence rate

Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval

Section 5: Additional diagnostics

Direct estimate is inside the 95% SAE Wilson CI: 51 areas.

Direct estimate is outside the 95% SAE Wilson CI: 82 areas.

SAE estimate is inside the 95% direct Wilson CI: 131 areas.

SAE estimate is outside the 95% direct Wilson CI: 2 areas.

SAE Wilson 95% CI is fully inside the 95% direct Wilson CI: 121 areas.

SAE Wilson 95% CI partially overlaps with the 95% direct Wilson CI: 12 areas.

SAE Wilson 95% CI and the 95% direct Wilson CI do not overlap: 0 areas.

SAE standard error is less that the direct standard error: 127 areas.

SAE standard error is greater that the (nonzero) direct standard error: 1 areas.

Direct standard error is zero: 5 areas.

Proportion of SAE variance due to ACS sampling error: min = 0.41%; med = 19.37%; max = 51.50%.

Proportion of SAE variance to sampling error in regression coefficient estimates: min = 47.99%; med = 79.32%; max = 98.40%.

Proportion of SAE variance due to model selection: min = 0.05%; med = 1.33%; max = 13.01%.