Indicator 12: Dental visit in the past year

Internal variable name: outc12_dentist

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

Predictive models

	Mixed, demos only	Logit, no area effects	Mixed with area covariates
	b/se	b/se	b/se
Outcome 12: Dental visit in the past year			
NH Black vs. NH White	-0.4611*** (0.1048)	-0.4550*** (0.0976)	-0.4550*** (0.1037)
NH Asian vs. NH White	-0.0024 (0.1348)	-0.0487 (0.2367)	-0.0487 (0.1314)
NH Other vs. NH White	-0.3743** (0.1205)	-0.4145* (0.1718)	-0.4145*** (0.1195)
Hispanic vs. NH White	-0.2630 (0.1754)	-0.2972 (0.1890)	-0.2972 (0.1715)
Female	0.2838*** (0.0802)	0.2857*** (0.0757)	0.2857*** (0.0798)
Age 18-34 vs. 65+	-0.1395 (0.1087)	-0.1635 (0.1085)	-0.1635 (0.1079)
Age 35-44 vs. 65+	-0.0436 (0.1166)	-0.0623 (0.1169)	-0.0623 (0.1154)
Age 45-54 vs. 65+	0.1247 (0.1067)	0.1396 (0.1037)	0.1396 (0.1053)
Age 55-64 vs. 65+	0.2123* (0.0819)	0.2068* (0.0979)	0.2068* (0.0833)
% HHs receiving SNAP		-0.0691*** (0.0172)	-0.0691*** (0.0137)
Crude mortality rate of chronic lower respiratory disease per 10K		-0.1028*** (0.0208)	-0.1028*** (0.0189)
% no health insurance, ACS 2016 5yr		-0.0718*** (0.0203)	-0.0718*** (0.0170)
Violent crime rate, County Rankings/UCR		0.1918*** (0.0432)	0.1918*** (0.0323)
Oral Female Rate		-0.0209** (0.0074)	-0.0209*** (0.0060)
% education below HS, population 25+ y/o		0.0437* (0.0204)	0.0437** (0.0147)
Stomach Male Rate		0.0117 (0.0195)	0.0117 (0.0134)

c.ACS_pct_educ_lt_HS#c.StomachMaleRate		0.0004 (0.0012)	0.0004 (0.0008)
Melanoma Male Rate		-0.0064 (0.0112)	-0.0064 (0.0091)
VA BRFSS 2014 SAE outc26_shingles_vacc		0.7964 (1.1384)	0.7964 (0.8483)
c.MelanomaMaleRate#c.VA14SAE_outc26_shingles_vacc		0.0462 (0.0399)	0.0462 (0.0302)
Intercept	0.6991*** (0.0796)	1.3932** (0.4520)	1.3932*** (0.3683)
Area effect variance	0.2281*** (0.0544)		0.0000 (0.0000)

Number of alternative models used to estimate model error = 6.

Results

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE CI
Augusta County	51015	65.9%	(52.8%, 77.0%)	69.3%	(65.6%, 72.8%)
Bath County	51017	78.4%	(34.0%, 95.0%)	54.8%	(48.5%, 61.1%)
Caroline County	51033	45.5%	(20.3%, 73.3%)	72.9%	(66.2%, 78.6%)
Clarke County	51043	70.0%	(27.9%, 93.4%)	66.7%	(61.9%, 71.3%)
Culpeper County	51047	68.8%	(49.3%, 83.3%)	71.9%	(68.1%, 75.3%)
Fauquier County	51061	71.9%	(51.6%, 86.0%)	74.2%	(69.5%, 78.3%)
Frederick County	51069	71.1%	(55.8%, 82.7%)	68.5%	(64.5%, 72.2%)
Highland County	51091	65.8%	(19.5%, 93.9%)	70.6%	(63.6%, 76.8%)
King George County	51099	59.3%	(20.6%, 89.1%)	74.5%	(69.0%, 79.2%)
Madison County	51113	70.2%	(43.1%, 88.0%)	60.6%	(53.5%, 67.2%)
Orange County	51137	61.0%	(39.9%, 78.7%)	55.1%	(49.4%, 60.7%)
Page County	51139	53.5%	(29.3%, 76.2%)	63.2%	(57.5%, 68.5%)
Rappahannock County	51157	87.0%	(58.0%, 97.0%)	72.3%	(64.1%, 79.3%)
Rockbridge County	51163	67.6%	(45.8%, 83.7%)	62.4%	(57.7%, 66.9%)
Rockingham County	51165	79.2%	(67.2%, 87.7%)	77.9%	(72.8%, 82.2%)
Shenandoah County	51171	71.9%	(51.4%, 86.1%)	72.0%	(68.2%, 75.5%)
Spotsylvania County	51177	58.5%	(44.7%, 71.1%)	74.6%	(71.2%, 77.7%)
Stafford County	51179	78.9%	(67.9%, 86.9%)	81.9%	(78.2%, 85.0%)
Warren County	51187	61.5%	(42.3%, 77.6%)	62.4%	(57.5%, 67.0%)
Buena Vista City	51530	57.1%	(14.3%, 91.4%)	44.4%	(35.0%, 54.2%)
Fredericksburg City	51630	67.8%	(43.7%, 85.1%)	77.9%	(71.2%, 83.5%)
Harrisonburg City	51660	98.4%	(44.1%, 99.4%)	74.4%	(67.2%, 80.6%)
Lexington City	51678	100.0%	(3.7%, 100.0%)	98.5%	(42.5%, 100.0%)
Staunton City	51790	66.7%	(23.3%, 93.0%)	74.8%	(68.5%, 80.2%)
Waynesboro City	51820	56.0%	(21.5%, 85.5%)	70.0%	(60.9%, 77.7%)
Winchester City	51840	77.3%	(22.6%, 97.5%)	57.5%	(49.2%, 65.4%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE CI
Albemarle County	51003	68.8%	(56.7%, 78.8%)	78.7%	(75.5%, 81.6%)
Alleghany County	51005	51.2%	(22.4%, 79.2%)	58.1%	(53.5%, 62.5%)
Amherst County	51009	77.6%	(55.7%, 90.5%)	70.1%	(65.5%, 74.2%)
Appomattox County	51011	79.8%	(52.2%, 93.4%)	77.7%	(69.0%, 84.5%)
Arlington City	51013	82.3%	(70.8%, 89.9%)	83.0%	(79.2%, 86.3%)
Bedford County	51019	66.1%	(52.7%, 77.3%)	65.9%	(61.9%, 69.7%)
Botetourt County	51023	67.4%	(44.8%, 84.0%)	76.5%	(70.9%, 81.2%)
Campbell County	51031	69.1%	(55.6%, 80.0%)	70.7%	(66.8%, 74.3%)
Craig County	51045	30.6%	(5.5%, 76.8%)	29.2%	(18.3%, 43.1%)
Fairfax County	51059	79.8%	(74.6%, 84.2%)	78.3%	(75.9%, 80.5%)
Fluvanna County	51065	67.7%	(44.6%, 84.6%)	74.7%	(67.8%, 80.4%)
Greene County	51079	93.3%	(47.9%, 97.4%)	72.8%	(65.5%, 79.0%)
Loudoun County	51107	81.8%	(72.0%, 88.8%)	82.0%	(79.3%, 84.4%)
Louisa County	51109	73.6%	(50.6%, 88.3%)	64.1%	(59.3%, 68.7%)
Nelson County	51125	59.9%	(27.7%, 85.3%)	68.3%	(63.5%, 72.7%)
Prince William County	51153	70.8%	(63.9%, 76.9%)	73.3%	(70.6%, 75.9%)
Roanoke County	51161	72.2%	(60.9%, 81.3%)	79.0%	(75.3%, 82.3%)
Alexandria City	51510	79.7%	(67.5%, 88.2%)	75.7%	(71.2%, 79.8%)
Charlottesville City	51540	86.0%	(68.1%, 94.6%)	89.8%	(83.5%, 93.9%)
Covington City	51580	100.0%	(3.6%, 100.0%)	78.5%	(55.6%, 91.4%)
Fairfax City	51600	70.3%	(55.5%, 81.8%)	68.0%	(63.3%, 72.2%)
Falls Church City	51610	96.7%	(68.8%, 98.1%)	91.9%	(86.5%, 95.2%)
Lynchburg City	51680	65.0%	(50.1%, 77.4%)	68.6%	(64.1%, 72.8%)
Manassas City	51683	53.1%	(22.6%, 81.5%)	71.7%	(64.5%, 78.0%)
Manassas Park City	51685	43.1%	(6.2%, 89.6%)	62.0%	(52.9%, 70.4%)
Salem City	51775	33.0%	(12.3%, 63.4%)	60.4%	(55.7%, 65.0%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE CI
Bland County	51021	71.9%	(37.0%, 91.8%)	55.8%	(49.0%, 62.3%)
Buchanan County	51027	37.2%	(17.8%, 61.9%)	36.9%	(30.2%, 44.2%)
Carroll County	51035	51.5%	(30.7%, 71.8%)	56.7%	(52.2%, 61.2%)
Dickenson County	51051	26.9%	(11.1%, 51.9%)	37.8%	(27.7%, 49.1%)
Floyd County	51063	71.9%	(48.5%, 87.4%)	70.6%	(64.6%, 76.0%)
Franklin County	51067	62.9%	(39.0%, 81.9%)	62.1%	(58.7%, 65.5%)
Giles County	51071	70.0%	(48.3%, 85.3%)	69.0%	(64.1%, 73.5%)
Grayson County	51077	42.6%	(21.1%, 67.5%)	50.4%	(45.5%, 55.4%)
Henry County	51089	64.3%	(47.0%, 78.5%)	55.1%	(48.6%, 61.5%)
Lee County	51105	36.2%	(13.4%, 67.4%)	38.2%	(31.0%, 46.0%)
Montgomery County	51121	68.4%	(53.9%, 80.1%)	74.8%	(70.2%, 78.9%)
Patrick County	51141	62.4%	(31.8%, 85.5%)	61.9%	(54.9%, 68.4%)
Pittsylvania County	51143	60.6%	(48.3%, 71.7%)	55.5%	(51.3%, 59.6%)
Pulaski County	51155	74.4%	(53.6%, 87.9%)	72.5%	(67.3%, 77.1%)
Russell County	51167	71.2%	(53.1%, 84.4%)	54.7%	(50.7%, 58.7%)
Scott County	51169	48.3%	(29.4%, 67.7%)	44.4%	(39.1%, 49.7%)
Smyth County	51173	30.3%	(13.2%, 55.5%)	48.5%	(44.2%, 52.9%)
Tazewell County	51185	39.7%	(22.1%, 60.4%)	53.3%	(49.6%, 57.1%)
Washington County	51191	53.1%	(38.0%, 67.6%)	66.3%	(62.2%, 70.3%)
Wise County	51195	50.7%	(34.5%, 66.8%)	39.7%	(32.6%, 47.2%)
Wythe County	51197	39.6%	(22.8%, 59.3%)	51.1%	(46.5%, 55.8%)
Bristol City	51520	8.0%	(0.6%, 92.0%)	40.4%	(32.6%, 48.8%)
Danville City	51590	59.6%	(32.4%, 81.9%)	57.0%	(50.0%, 63.8%)
Galax City	51640	48.8%	(3.0%, 96.7%)	36.5%	(26.6%, 47.7%)
Martinsville City	51690	54.4%	(16.9%, 87.5%)	35.0%	(26.4%, 44.7%)
Norton City	51720	22.6%	(2.6%, 76.2%)	31.4%	(22.6%, 41.8%)
Radford City	51750	75.5%	(41.7%, 93.0%)	73.4%	(66.2%, 79.5%)
Roanoke City	51770	68.7%	(55.6%, 79.4%)	68.1%	(63.5%, 72.4%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE CI
Amelia County	51007	73.8%	(46.3%, 90.2%)	56.0%	(51.5%, 60.4%)
Brunswick County	51025	50.4%	(24.0%, 76.5%)	50.8%	(43.6%, 57.9%)
Buckingham County	51029	49.2%	(27.1%, 71.5%)	49.0%	(40.3%, 57.8%)
Charles City County	51036	79.3%	(26.8%, 97.6%)	68.3%	(62.7%, 73.4%)
Charlotte County	51037	59.6%	(35.4%, 79.9%)	54.8%	(46.9%, 62.5%)
Chesterfield County	51041	75.4%	(67.9%, 81.6%)	75.6%	(73.1%, 77.8%)
Cumberland County	51049	66.3%	(41.0%, 84.8%)	64.6%	(58.0%, 70.7%)
Dinwiddie County	51053	38.4%	(17.4%, 64.7%)	59.1%	(54.2%, 63.8%)
Goochland County	51075	97.9%	(72.1%, 98.9%)	76.1%	(71.5%, 80.1%)
Greensville County	51081	62.8%	(28.1%, 88.0%)	66.0%	(58.7%, 72.6%)
Halifax County	51083	43.7%	(27.7%, 61.1%)	60.5%	(55.6%, 65.2%)
Hanover County	51085	86.6%	(75.5%, 93.1%)	81.1%	(77.6%, 84.2%)
Henrico County	51087	76.7%	(68.1%, 83.6%)	72.8%	(69.6%, 75.8%)
Lunenburg County	51111	34.1%	(14.0%, 62.2%)	39.3%	(33.9%, 44.9%)
Mecklenburg County	51117	71.8%	(57.5%, 82.8%)	71.3%	(66.3%, 75.8%)
New Kent County	51127	70.4%	(37.6%, 90.3%)	81.0%	(77.1%, 84.3%)
Nottoway County	51135	79.4%	(53.5%, 92.8%)	62.5%	(56.0%, 68.6%)
Powhatan County	51145	80.3%	(49.3%, 94.5%)	75.3%	(70.0%, 79.9%)
Prince Edward County	51147	50.9%	(31.2%, 70.3%)	57.8%	(51.6%, 63.7%)
Prince George County	51149	71.8%	(54.2%, 84.6%)	67.0%	(63.0%, 70.8%)
Surry County	51181	49.0%	(19.8%, 78.9%)	63.7%	(57.8%, 69.2%)
Sussex County	51183	81.5%	(57.4%, 93.5%)	73.1%	(62.9%, 81.4%)
Colonial Heights City	51570	70.1%	(42.2%, 88.3%)	61.8%	(52.6%, 70.1%)
Emporia City	51595	0.0%	(0.0%, 99.4%)	31.7%	(20.8%, 45.2%)
Hopewell City	51670	82.6%	(60.8%, 93.6%)	56.6%	(48.9%, 63.9%)
Petersburg City	51730	54.4%	(35.5%, 72.2%)	60.0%	(54.1%, 65.7%)
Richmond City	51760	69.3%	(55.1%, 80.6%)	68.6%	(64.1%, 72.8%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE CI
Accomack County	51001	48.4%	(33.6%, 63.5%)	55.8%	(47.2%, 64.1%)
Essex County	51057	59.5%	(28.5%, 84.4%)	69.1%	(62.0%, 75.4%)
Gloucester County	51073	57.8%	(40.4%, 73.5%)	63.6%	(59.7%, 67.3%)
Isle of Wight County	51093	69.2%	(45.5%, 85.8%)	72.9%	(66.9%, 78.1%)
James City County	51095	84.3%	(71.5%, 92.0%)	83.5%	(79.6%, 86.7%)
King and Queen County	51097	39.6%	(14.7%, 71.5%)	48.4%	(39.4%, 57.6%)
King William County	51101	60.9%	(28.6%, 85.8%)	66.2%	(61.1%, 70.9%)
Lancaster County	51103	65.6%	(38.6%, 85.2%)	62.2%	(53.8%, 69.8%)
Mathews County	51115	55.7%	(27.0%, 81.0%)	52.2%	(44.6%, 59.7%)
Middlesex County	51119	67.2%	(42.7%, 84.9%)	59.2%	(50.8%, 67.1%)
Northampton County	51131	69.8%	(41.6%, 88.2%)	69.0%	(60.6%, 76.3%)
Northumberland County	51133	76.2%	(53.2%, 90.0%)	79.0%	(73.0%, 83.9%)
Richmond County	51159	60.3%	(31.0%, 83.7%)	59.3%	(54.1%, 64.3%)
Southampton County	51175	55.2%	(23.4%, 83.2%)	55.8%	(48.5%, 62.8%)
Westmoreland County	51193	56.6%	(30.3%, 79.6%)	57.0%	(51.5%, 62.3%)
York County	51199	77.5%	(59.3%, 89.1%)	84.4%	(80.7%, 87.4%)
Chesapeake City	51550	83.8%	(77.0%, 88.9%)	80.1%	(76.5%, 83.2%)
Franklin City	51620	85.6%	(63.1%, 95.4%)	77.7%	(69.1%, 84.4%)
Hampton City	51650	63.1%	(51.9%, 73.1%)	55.5%	(49.7%, 61.1%)
Newport News City	51700	60.1%	(48.3%, 70.8%)	65.8%	(62.2%, 69.1%)
Norfolk City	51710	61.6%	(51.5%, 70.7%)	66.0%	(62.3%, 69.5%)
Poquoson City	51735	51.5%	(5.8%, 94.9%)	91.1%	(85.9%, 94.5%)
Portsmouth City	51740	71.1%	(59.7%, 80.4%)	69.8%	(65.3%, 73.9%)
Suffolk City	51800	80.4%	(67.5%, 89.0%)	74.6%	(70.8%, 78.0%)
Virginia Beach City	51810	78.6%	(72.3%, 83.7%)	78.1%	(75.4%, 80.7%)
Williamsburg City	51830	94.2%	(10.5%, 99.5%)	81.9%	(71.0%, 89.3%)

Graphical representation

Dental visit in the past year
Central Shenandoah and Lord Fairfax HDs

County/City		LCB | Point | UCB
Augusta County		65.6 | 69.3 | 72.8
Bath County		48.4 | 54.8 | 61.1
Highland County		63.5 | 70.6 | 76.8
Rockbridge County		57.7 | 62.4 | 66.9
Rockingham County		72.8 | 77.9 | 82.3
Buena Vista City		34.9 | 44.4 | 54.3
Harrisonburg City		67.1 | 74.4 | 80.6
Lexington City		26.5 | 98.5 | 100
Staunton City		68.5 | 74.8 | 80.2
Waynesboro City		60.8 | 70.0 | 77.8
Clarke County		61.8 | 66.7 | 71.3
Frederick County		64.5 | 68.5 | 72.2
Page County		57.5 | 63.2 | 68.6
Shenandoah County		68.2 | 72.0 | 75.5
Warren County		57.5 | 62.4 | 67.0
Winchester City		49.1 | 57.5 | 65.4

% incidence rate

Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
Gray markers: 95% confidence interval

Dental visit in the past year
Rappahannock/Rapidan and Rappahannock HDs
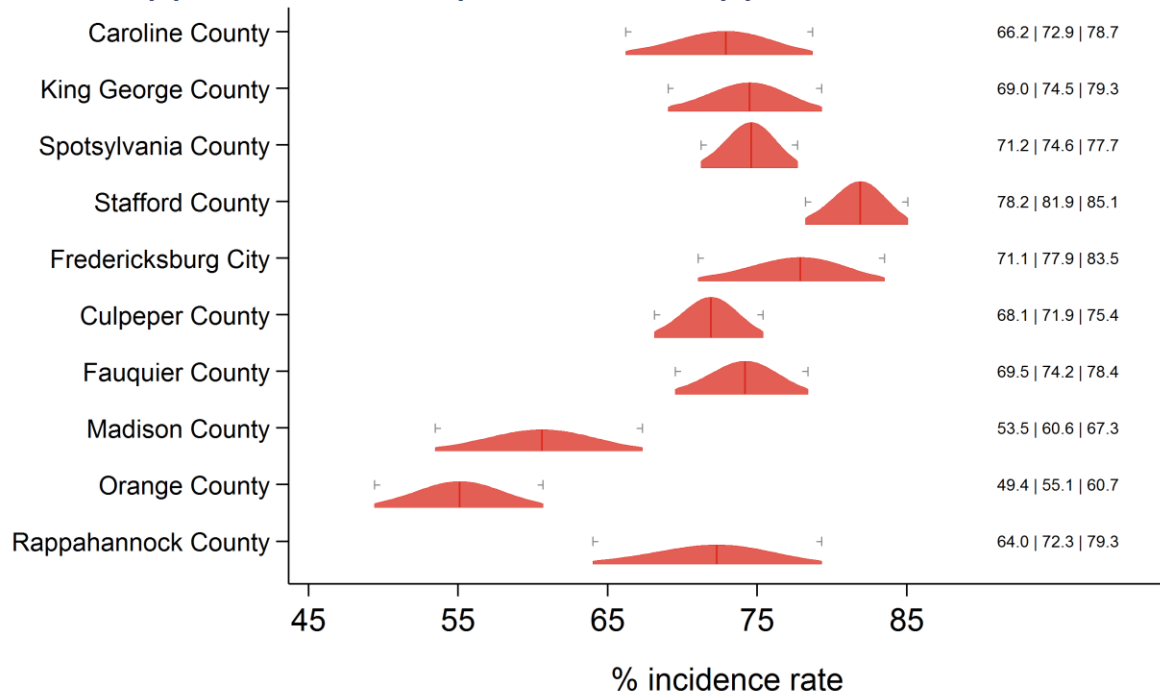
County	LCB | Point | UCB
Caroline County	66.2 | 72.9 | 78.7
King George County	69.0 | 74.5 | 79.3
Spotsylvania County	71.2 | 74.6 | 77.7
Stafford County	78.2 | 81.9 | 85.1
Fredericksburg City	71.1 | 77.9 | 83.5
Culpeper County	68.1 | 71.9 | 75.4
Fauquier County	69.5 | 74.2 | 78.4
Madison County	53.5 | 60.6 | 67.3
Orange County	49.4 | 55.1 | 60.7
Rappahannock County	64.0 | 72.3 | 79.3

% incidence rate

Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
Gray markers: 95% confidence interval

Dental visit in the past year
Thomas Jefferson and Piedmont HDs

County	LCB	Point	UCB
Albemarle County	75.5	78.7	81.6
Fluvanna County	67.8	74.7	80.5
Greene County	65.5	72.8	79.1
Louisa County	59.3	64.1	68.7
Nelson County	63.5	68.3	72.7
Charlottesville City	83.4	89.8	93.9
Amelia County	51.5	56.0	60.4
Buckingham County	40.2	49.0	57.8
Charlotte County	46.8	54.8	62.6
Cumberland County	58.0	64.6	70.7
Lunenburg County	33.9	39.3	45.0
Nottoway County	55.9	62.5	68.6
Prince Edward County	51.6	57.8	63.8

% incidence rate

Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
Gray markers: 95% confidence interval

Dental visit in the past year
Alexandria, Fairfax, Arlington, Loudon, Prince William HDs

Health District	LCB | Point | UCB
Alexandria City	71.1 | 75.7 | 79.8
Arlington City	79.2 | 83.0 | 86.3
Fairfax County	75.9 | 78.3 | 80.5
Fairfax City	63.4 | 68.0 | 72.3
Falls Church City	86.5 | 91.9 | 95.3
Loudoun County	79.3 | 82.0 | 84.4
Prince William County	70.6 | 73.3 | 75.9
Manassas City	64.4 | 71.7 | 78.0
Manassas Park City	52.8 | 62.0 | 70.4

% incidence rate
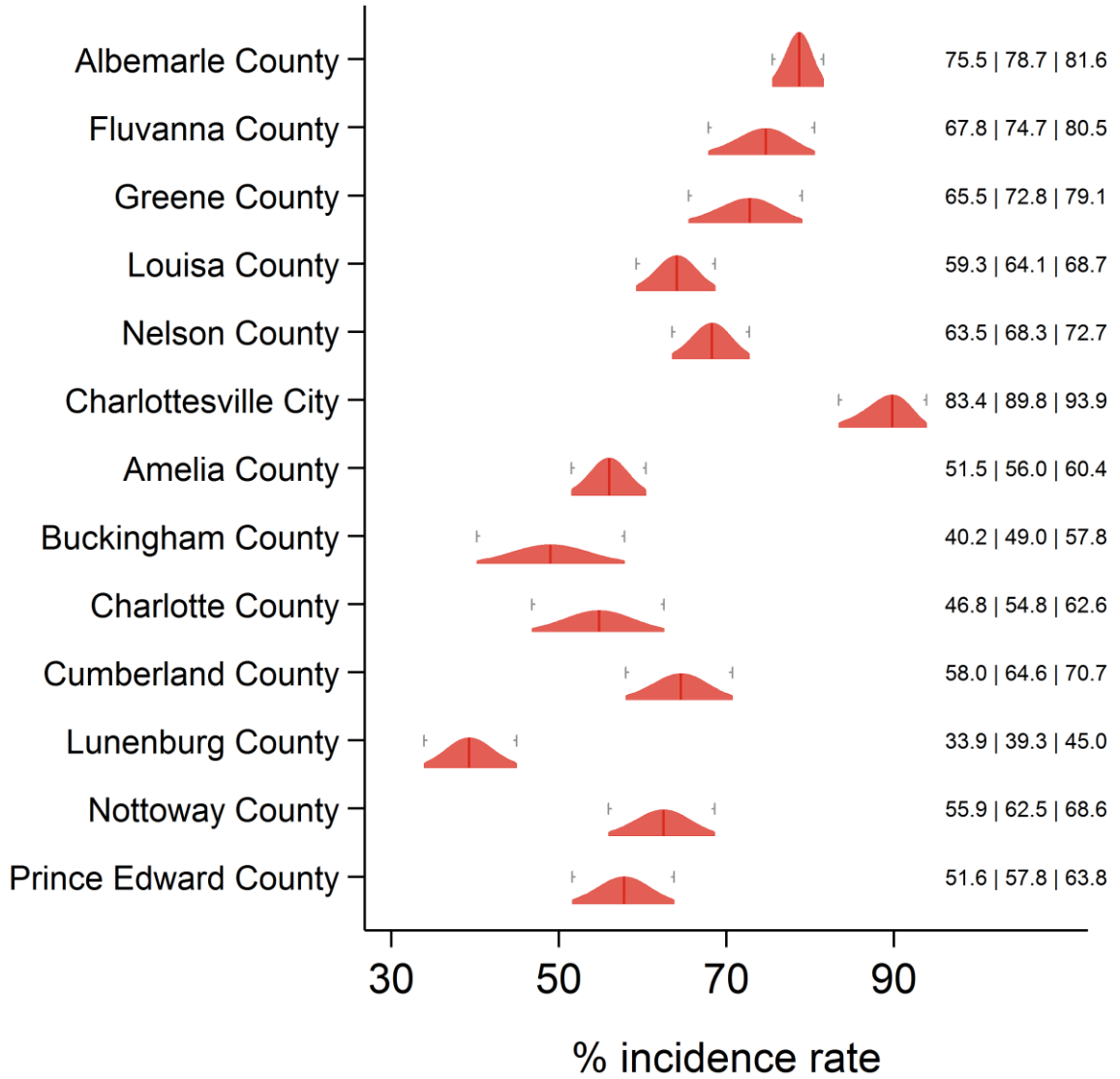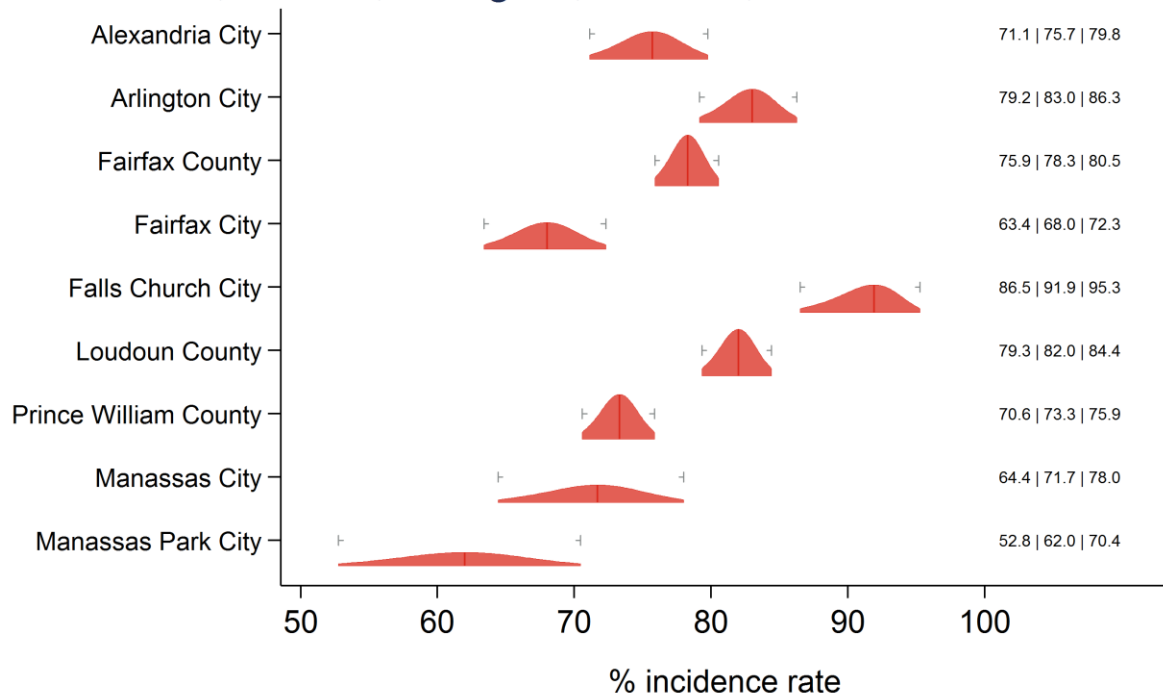
Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
Gray markers: 95% confidence interval

Dental visit in the past year
Alleghany, Roanoke and Central Virginia HDs

Alleghany County	53.5 | 58.1 | 62.6
Botetourt County	70.9 | 76.5 | 81.3
Craig County	18.1 | 29.2 | 43.5
Roanoke County	75.3 | 79.0 | 82.3
Covington City	54.1 | 78.5 | 91.9
Salem City	55.7 | 60.4 | 65.0
Amherst County	65.6 | 70.1 | 74.3
Appomattox County	68.9 | 77.7 | 84.6
Bedford County	61.9 | 65.9 | 69.7
Campbell County	66.8 | 70.7 | 74.4
Lynchburg City	64.0 | 68.6 | 72.8
Roanoke City	63.5 | 68.1 | 72.4

% incidence rate
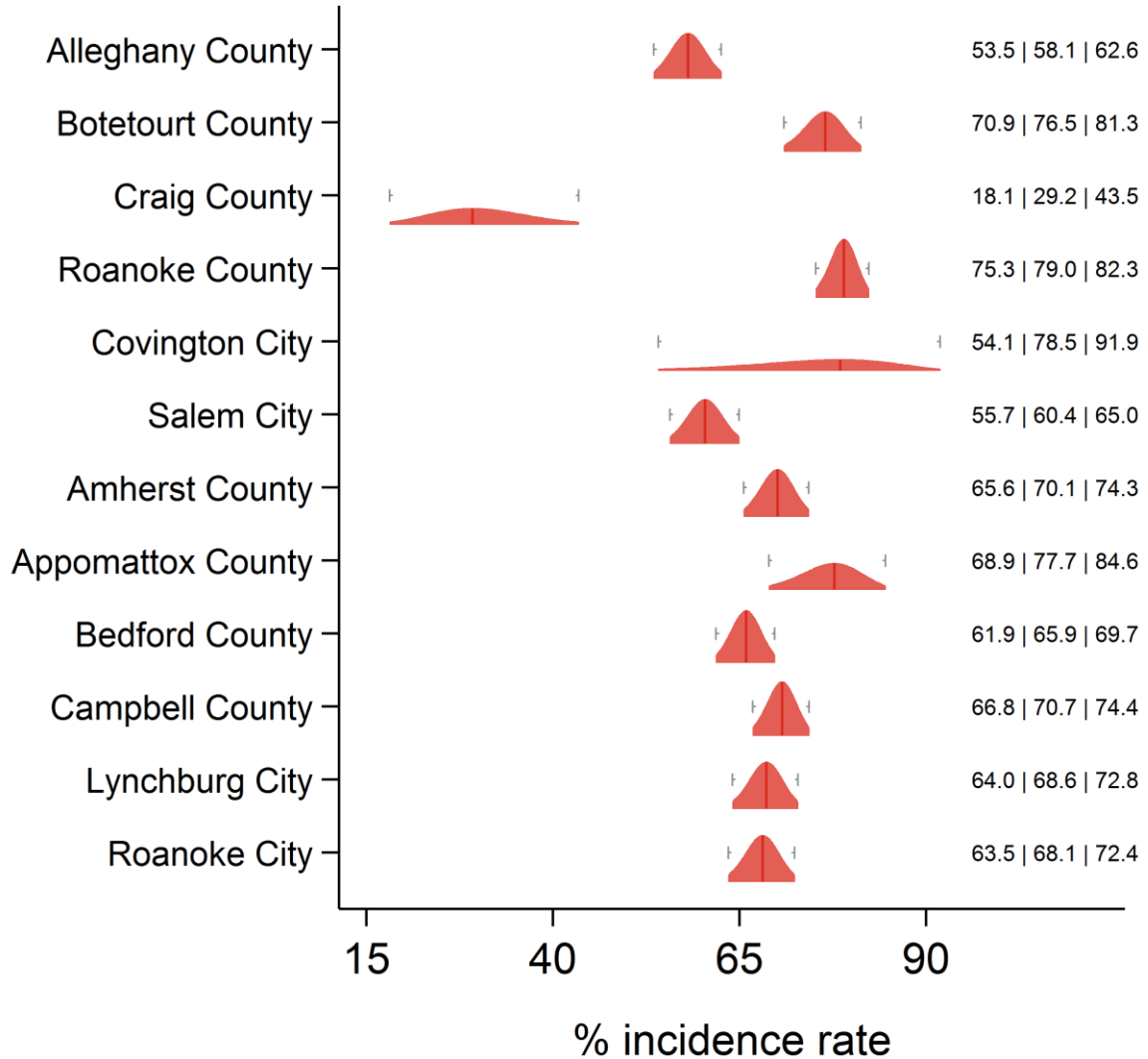
Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
Gray markers: 95% confidence interval

Dental visit in the past year
Cumberland Plateau and Lenowisco HDs

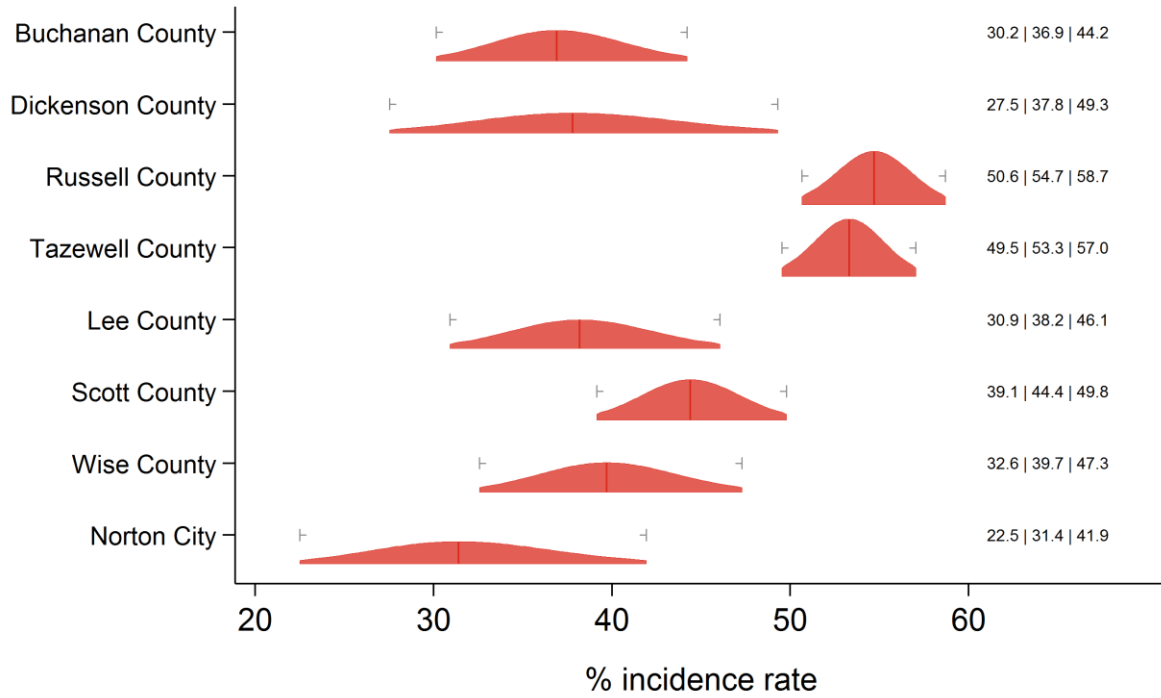| County	LCB	Point	UCB
Buchanan County	30.2	36.9	44.2
Dickenson County	27.5	37.8	49.3
Russell County	50.6	54.7	58.7
Tazewell County	49.5	53.3	57.0
Lee County	30.9	38.2	46.1
Scott County	39.1	44.4	49.8
Wise County	32.6	39.7	47.3
Norton City	22.5	31.4	41.9

% incidence rate

Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
Gray markers: 95% confidence interval

Dental visit in the past year
Pittsylvania/Danville, Southside and West Piedmont HDs

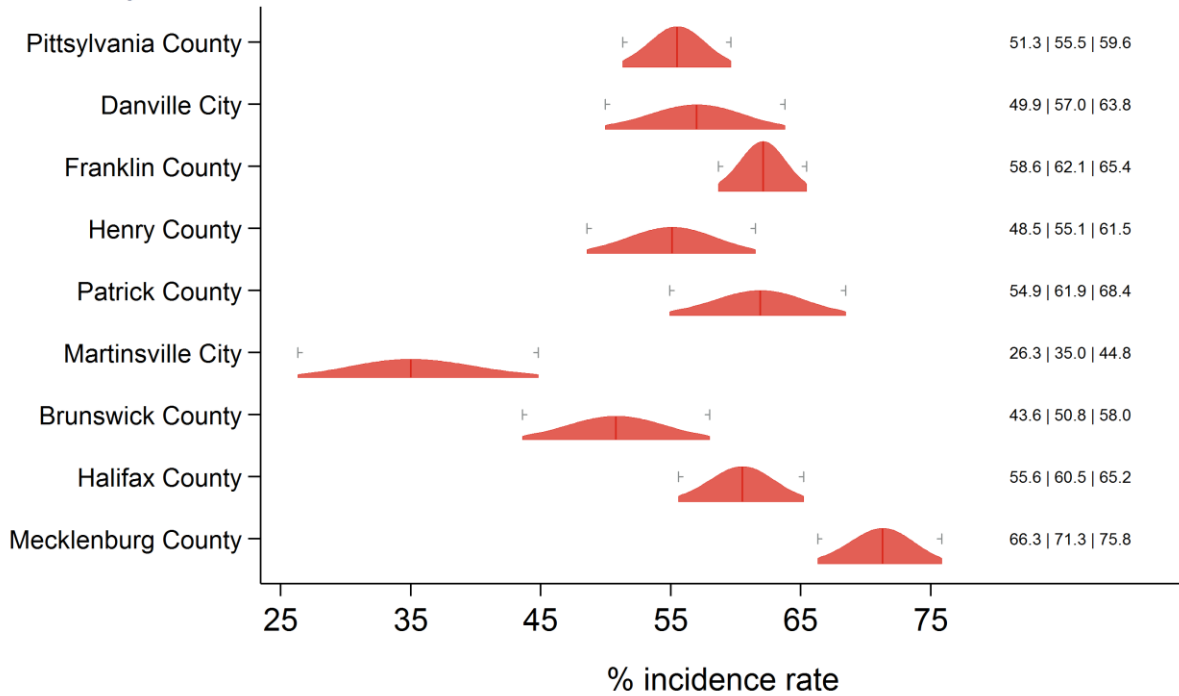| County	LCB | Point | UCB
Pittsylvania County	51.3 | 55.5 | 59.6
Danville City	49.9 | 57.0 | 63.8
Franklin County	58.6 | 62.1 | 65.4
Henry County	48.5 | 55.1 | 61.5
Patrick County	54.9 | 61.9 | 68.4
Martinsville City	26.3 | 35.0 | 44.8
Brunswick County	43.6 | 50.8 | 58.0
Halifax County	55.6 | 60.5 | 65.2
Mecklenburg County	66.3 | 71.3 | 75.8

% incidence rate
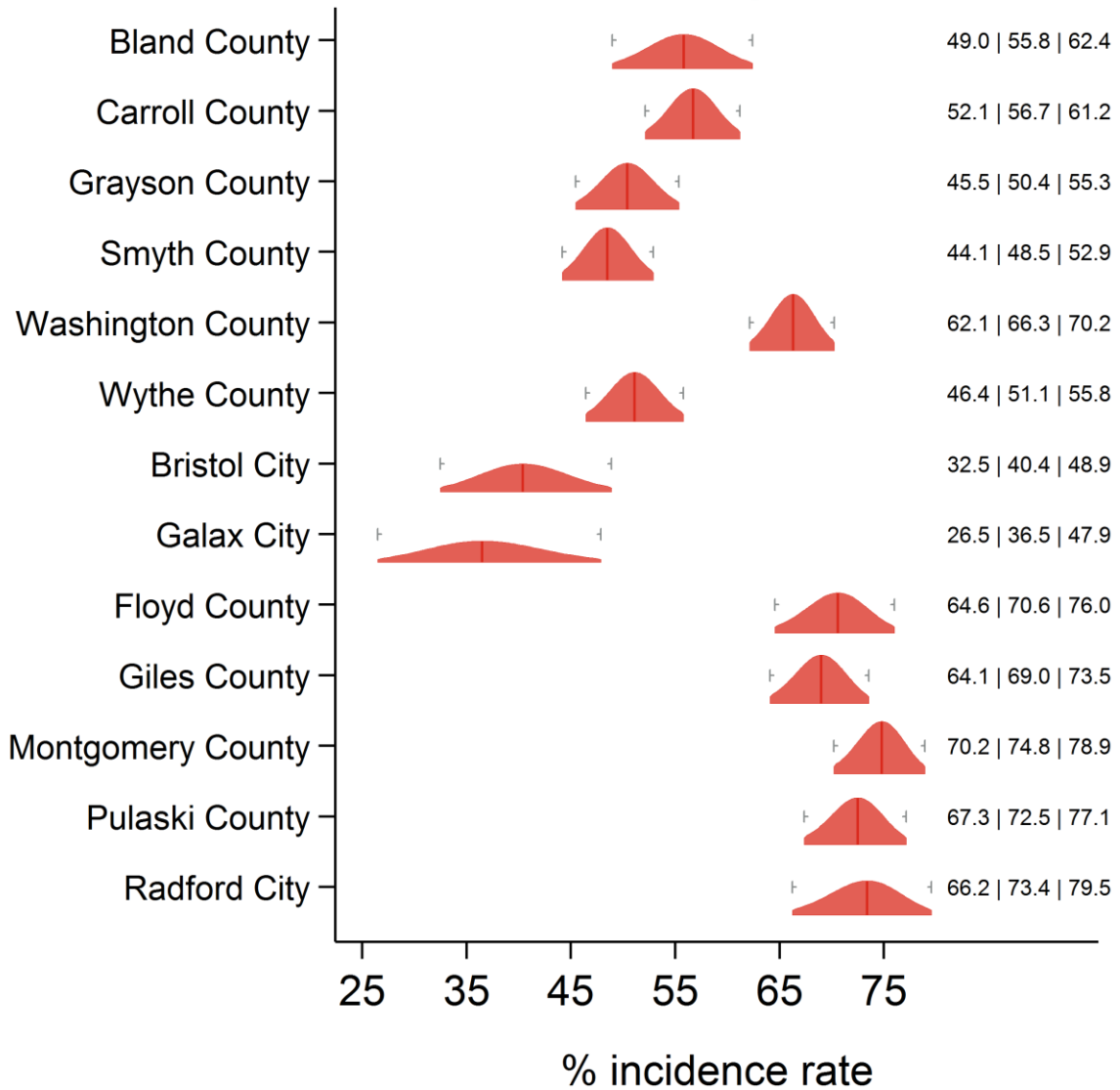
Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
Gray markers: 95% confidence interval

Dental visit in the past year
New River and Mount Rogers HDs

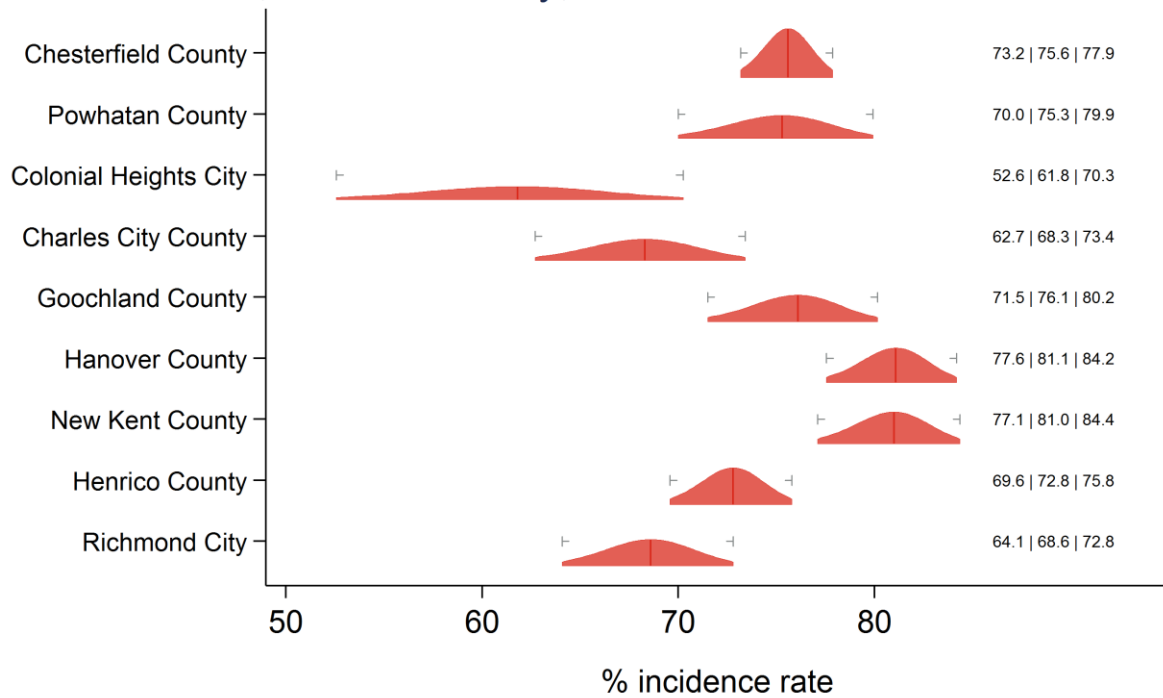| County/City	2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
Bland County	49.0 | 55.8 | 62.4
Carroll County	52.1 | 56.7 | 61.2
Grayson County	45.5 | 50.4 | 55.3
Smyth County	44.1 | 48.5 | 52.9
Washington County	62.1 | 66.3 | 70.2
Wythe County	46.4 | 51.1 | 55.8
Bristol City	32.5 | 40.4 | 48.9
Galax City	26.5 | 36.5 | 47.9
Floyd County	64.6 | 70.6 | 76.0
Giles County	64.1 | 69.0 | 73.5
Montgomery County	70.2 | 74.8 | 78.9
Pulaski County	67.3 | 72.5 | 77.1
Radford City	66.2 | 73.4 | 79.5

% incidence rate

Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
Gray markers: 95% confidence interval

Dental visit in the past year
Chesterfield, Chickahominy, Henrico and Richmond HDs

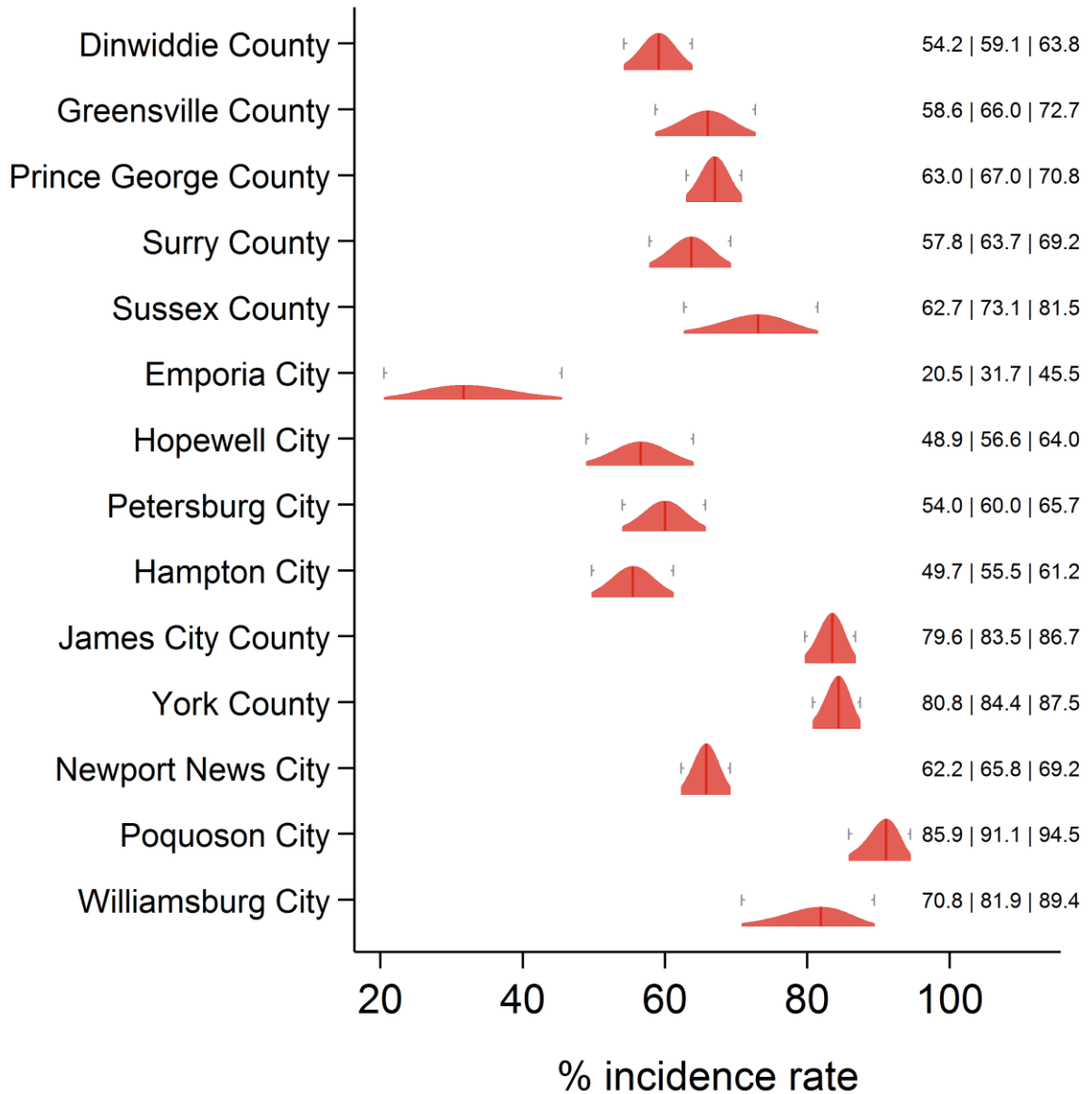| County/City	Estimates
Chesterfield County	73.2 | 75.6 | 77.9
Powhatan County	70.0 | 75.3 | 79.9
Colonial Heights City	52.6 | 61.8 | 70.3
Charles City County	62.7 | 68.3 | 73.4
Goochland County	71.5 | 76.1 | 80.2
Hanover County	77.6 | 81.1 | 84.2
New Kent County	77.1 | 81.0 | 84.4
Henrico County	69.6 | 72.8 | 75.8
Richmond City	64.1 | 68.6 | 72.8

% incidence rate

Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
Gray markers: 95% confidence interval

Dental visit in the past year
Crater, Peninsula and Hampton HDs

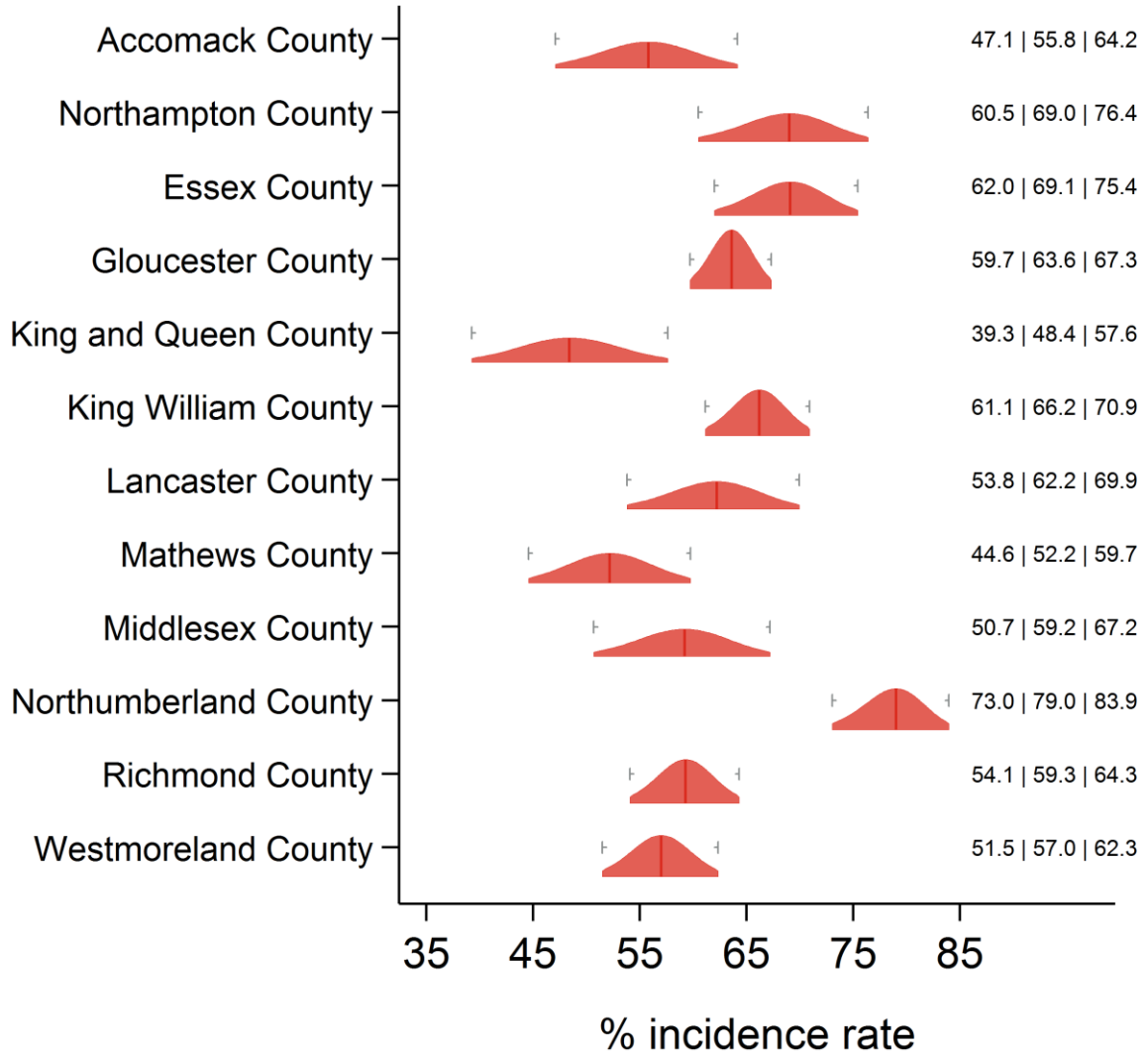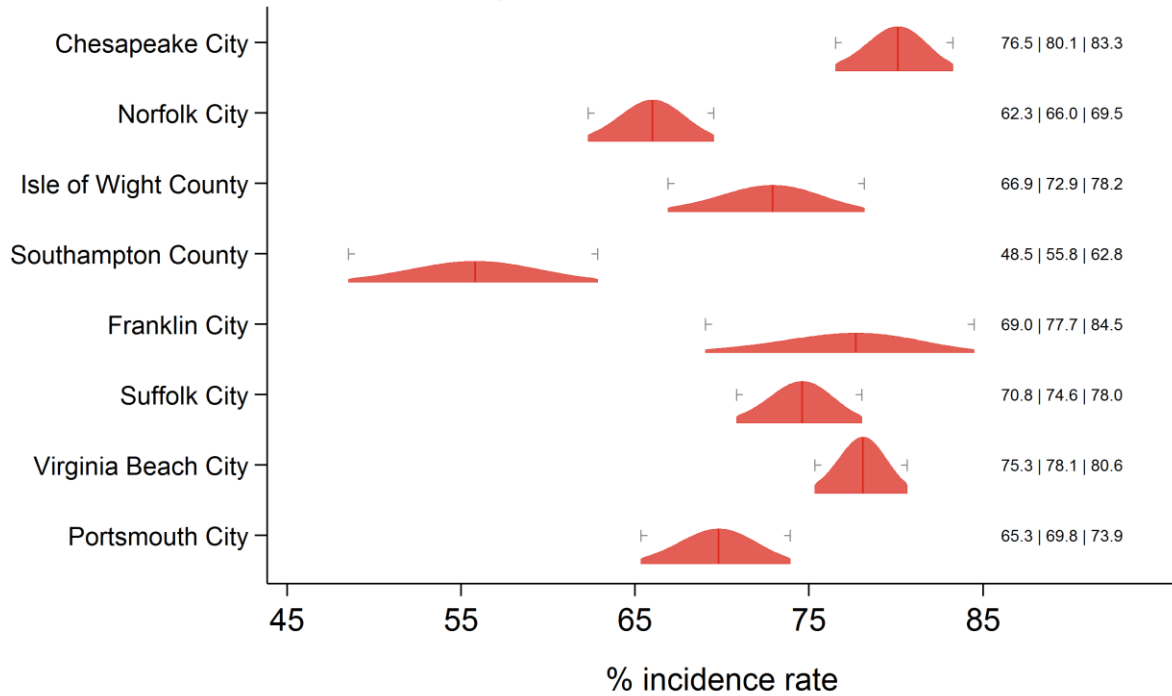| County/City	Values
Dinwiddie County	54.2 | 59.1 | 63.8
Greensville County	58.6 | 66.0 | 72.7
Prince George County	63.0 | 67.0 | 70.8
Surry County	57.8 | 63.7 | 69.2
Sussex County	62.7 | 73.1 | 81.5
Emporia City	20.5 | 31.7 | 45.5
Hopewell City	48.9 | 56.6 | 64.0
Petersburg City	54.0 | 60.0 | 65.7
Hampton City	49.7 | 55.5 | 61.2
James City County	79.6 | 83.5 | 86.7
York County	80.8 | 84.4 | 87.5
Newport News City	62.2 | 65.8 | 69.2
Poquoson City	85.9 | 91.1 | 94.5
Williamsburg City	70.8 | 81.9 | 89.4

% incidence rate

Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
Gray markers: 95% confidence interval

Dental visit in the past year
Eastern Shore and Three Rivers HDs

County	LCB | Point | UCB
Accomack County	47.1 | 55.8 | 64.2
Northampton County	60.5 | 69.0 | 76.4
Essex County	62.0 | 69.1 | 75.4
Gloucester County	59.7 | 63.6 | 67.3
King and Queen County	39.3 | 48.4 | 57.6
King William County	61.1 | 66.2 | 70.9
Lancaster County	53.8 | 62.2 | 69.9
Mathews County	44.6 | 52.2 | 59.7
Middlesex County	50.7 | 59.2 | 67.2
Northumberland County	73.0 | 79.0 | 83.9
Richmond County	54.1 | 59.3 | 64.3
Westmoreland County	51.5 | 57.0 | 62.3

% incidence rate

Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
Gray markers: 95% confidence interval

Dental visit in the past year
Norfolk,Portsmouth,Chesapeake,VA Beach,W. Tidewater HDs

Chesapeake City	76.5 | 80.1 | 83.3
Norfolk City	62.3 | 66.0 | 69.5
Isle of Wight County	66.9 | 72.9 | 78.2
Southampton County	48.5 | 55.8 | 62.8
Franklin City	69.0 | 77.7 | 84.5
Suffolk City	70.8 | 74.6 | 78.0
Virginia Beach City	75.3 | 78.1 | 80.6
Portsmouth City	65.3 | 69.8 | 73.9

% incidence rate

Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
Gray markers: 95% confidence interval

Additional diagnostics

Direct estimate is inside the 95% SAE Wilson CI: 57 areas.

Direct estimate is outside the 95% SAE Wilson CI: 76 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: 119 areas.

SAE Wilson 95% CI partially overlaps with the 95% direct Wilson CI: 14 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: 128 areas.

SAE standard error is greater that the (nonzero) direct standard error: 2 areas.

Direct standard error is zero: 3 areas.

Proportion of SAE variance due to ACS sampling error: min = 0.34%; med = 14.83%; max = 63.75%.

Proportion of SAE variance due to sampling error in regression coefficient estimates: min = 15.02%; med = 78.96%; max = 97.18%.

Proportion of SAE variance due to model selection: min = 0.14%; med = 3.04%; max = 77.24%.

Proportion of SAE variance due to area random effects: <identically zero>