Indicator 34: Pap Test 18+ Past 3 Years

Internal variable name: outc34_pap_test

Section 1: Definition

Definition: Women respondents aged 18+ who have had a pap test in the past three years

Section 2: Predictive models

	Mixed, demos only	Logit, no area effects	Mixed with area covariates
	b/se	b/se	b/se
Outcome 34: Pap Test 18+			
Non-Hispanic Black vs. Non-Hispanic White	0.1009	-0.0313	-0.0313
	(0.1586)	(0.1875)	(0.1726)
Non-Hispanic Asian vs. Non-Hispanic White	-0.8194***	-0.9309**	-0.9309***
	(0.2353)	(0.3126)	(0.2281)
Non-Hispanic Other vs. Non-Hispanic White	0.6046	0.4452	0.4452
	(0.3643)	(0.4044)	(0.3544)
Hispanic vs. Non-Hispanic White	0.3142	0.1568	0.1568
	(0.2947)	(0.3064)	(0.2928)
Age 18-24 vs. 65+	-0.0837	-0.0395	-0.0395
	(0.2020)	(0.1983)	(0.2029)
Age 25-34 vs. 65+	1.5423***	1.6033***	1.6033***
	(0.1833)	(0.1994)	(0.1928)
Age 35-44 vs. 65+	1.4358***	1.4862***	1.4862***
	(0.1777)	(0.1943)	(0.1809)
Age 45-54 vs. 65+	1.2120***	1.2269***	1.2269***
	(0.1527)	(0.1675)	(0.1550)
Age 55-64 vs. 65+	1.0686***	1.1087***	1.1087***
	(0.1179)	(0.1611)	(0.1208)
% below 1.5x poverty line		-0.0729***	-0.0729***
		(0.0114)	(0.0102)
% Hispanic among adults 18 to 64		0.0205	0.0205
		(0.0461)	(0.0398)
% Non-Hispanic minority among adults 18 to 64		0.0260**	0.0260***
		(0.0080)	(0.0075)
Compound % lacking kitchen or complete plumbing		0.1916*	0.1916*
		(0.0937)	(0.0770)
% without health insurance, total population		0.1139***	0.1139***

		(0.0314)	(0.0251)
{% Hispanic among adults 18 to 64} interacted with {% Non-Hispanic minority among adults 18 to 64}		-0.0026 (0.0016)	-0.0026 (0.0015)
Uterus Cancer Female Rate		0.0210* (0.0101)	0.0210** (0.0076)
Crude mortality rate of nephritis nephrotic syndrome per 10,000		0.1656	0.1656*
		(0.1033)	(0.0697)
{Uterus Cancer Female Rate} interacted with {Crude mortality rate of nephritis nephrotic syndrome per 10,000}		-0.0042 (0.0039)	-0.0042 (0.0027)
Intercept	0.4826*** (0.0916)	-0.4635 (0.3997)	-0.4635 (0.2804)
Area effect variance	0.0534 (0.0664)		0.0000 (0.0000)

Number of alternative models used to estimate model error = 3.

Section 3: Results

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Augusta County	51015	75.6%	(55.7%, 88.4%)	75.5%	(70.9%, 79.7%)
Bath County	51017	100.0%	(21.1%, 100.0%)	88.5%	(71.9%, 95.9%)
Caroline County	51033	82.5%	(35.7%, 97.6%)	86.6%	(82.2%, 90.0%)
Clarke County	51043	58.1%	(13.9%, 92.3%)	78.1%	(72.6%, 82.7%)
Culpeper County	51047	67.3%	(41.3%, 85.8%)	82.6%	(78.2%, 86.2%)
Fauquier County	51061	91.8%	(73.2%, 95.6%)	84.0%	(79.9%, 87.5%)
Frederick County	51069	70.8%	(51.9%, 84.4%)	81.8%	(76.5%, 86.1%)
Highland County	51091	100.0%	(5.7%, 100.0%)	66.5%	(48.5%, 80.8%)
King George County	51099	89.0%	(35.9%, 97.7%)	86.2%	(81.7%, 89.8%)
Madison County	51113	73.6%	(36.0%, 93.2%)	80.2%	(72.8%, 86.0%)
Orange County	51137	94.5%	(68.5%, 97.4%)	83.9%	(79.3%, 87.7%)
Page County	51139	87.1%	(39.0%, 96.0%)	71.9%	(65.0%, 78.0%)
Rappahannock County	51157	59.6%	(10.3%, 95.0%)	81.1%	(74.0%, 86.6%)
Rockbridge County	51163	75.9%	(32.6%, 93.3%)	80.1%	(75.1%, 84.4%)
Rockingham County	51165	84.9%	(67.5%, 93.8%)	82.9%	(77.5%, 87.3%)
Shenandoah County	51171	87.4%	(62.4%, 95.3%)	78.8%	(72.6%, 84.0%)
Spotsylvania County	51177	73.7%	(49.9%, 88.7%)	84.2%	(80.3%, 87.4%)
Stafford County	51179	87.4%	(71.0%, 95.2%)	83.1%	(79.4%, 86.2%)
Warren County	51187	95.0%	(54.4%, 97.8%)	83.0%	(78.2%, 86.9%)
Buena Vista City	51530	0.0%	(0.0%, 99.4%)	66.3%	(51.4%, 78.6%)
Fredericksburg City	51630	79.0%	(27.3%, 97.4%)	82.3%	(77.1%, 86.6%)
Harrisonburg City	51660	82.3%	(22.1%, 96.9%)	40.9%	(27.2%, 56.2%)
Lexington City	51678	0.0%	(0.0%, 99.4%)	53.3%	(29.9%, 75.3%)
Staunton City	51790	89.1%	(32.2%, 97.8%)	84.6%	(77.9%, 89.5%)
Waynesboro City	51820	67.7%	(25.2%, 92.9%)	76.0%	(69.6%, 81.4%)
Winchester City	51840	100.0%	(24.6%, 100.0%)	76.2%	(66.5%, 83.9%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Albemarle County	51003	78.8%	(63.1%, 89.0%)	69.7%	(65.4%, 73.6%)
Alleghany County	51005	48.3%	(20.3%, 77.5%)	67.7%	(60.0%, 74.6%)
Amherst County	51009	83.8%	(43.7%, 94.2%)	81.8%	(77.6%, 85.3%)
Appomattox County	51011	80.5%	(45.7%, 92.9%)	81.5%	(70.2%, 89.2%)
Arlington City	51013	83.6%	(68.0%, 92.4%)	83.3%	(78.6%, 87.1%)
Bedford County	51019	82.9%	(57.7%, 94.5%)	73.9%	(68.9%, 78.3%)
Botetourt County	51023	73.6%	(47.6%, 89.5%)	70.7%	(65.1%, 75.7%)
Campbell County	51031	67.8%	(40.8%, 86.5%)	74.9%	(70.1%, 79.2%)
Craig County	51045	86.3%	(15.6%, 98.4%)	67.4%	(56.3%, 76.9%)
Fairfax County	51059	82.6%	(74.1%, 88.7%)	81.4%	(77.9%, 84.4%)
Fluvanna County	51065	89.1%	(42.0%, 97.7%)	84.7%	(77.3%, 90.0%)
Greene County	51079	84.1%	(37.3%, 97.9%)	79.8%	(75.3%, 83.8%)
Loudoun County	51107	82.4%	(70.6%, 90.1%)	83.1%	(80.1%, 85.7%)
Louisa County	51109	71.1%	(40.4%, 89.2%)	88.2%	(81.8%, 92.5%)
Nelson County	51125	82.5%	(43.0%, 95.4%)	82.7%	(78.1%, 86.6%)
Prince William County	51153	75.6%	(62.9%, 85.0%)	81.4%	(75.4%, 86.2%)
Roanoke County	51161	73.8%	(57.4%, 85.5%)	71.9%	(67.5%, 75.9%)
Alexandria City	51510	89.7%	(72.3%, 96.7%)	83.8%	(79.3%, 87.4%)
Charlottesville City	51540	57.9%	(24.4%, 85.4%)	62.0%	(54.0%, 69.5%)
Covington City	51580	.%	(.%, .%)	93.5%	(76.2%, 98.5%)
Fairfax City	51600	74.3%	(55.5%, 87.1%)	72.2%	(67.2%, 76.7%)
Falls Church City	51610	100.0%	(3.3%, 100.0%)	76.7%	(68.4%, 83.4%)
Lynchburg City	51680	67.9%	(33.7%, 89.8%)	65.1%	(58.5%, 71.2%)
Manassas City	51683	95.8%	(24.0%, 99.1%)	86.9%	(76.9%, 92.9%)
Manassas Park City	51685	100.0%	(0.6%, 100.0%)	76.1%	(60.6%, 86.9%)
Salem City	51775	46.2%	(11.2%, 85.4%)	75.2%	(70.0%, 79.8%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Bland County	51021	82.6%	(19.1%, 97.9%)	76.4%	(70.8%, 81.2%)
Buchanan County	51027	71.7%	(46.7%, 88.0%)	60.4%	(48.7%, 71.1%)
Carroll County	51035	68.4%	(40.6%, 87.2%)	66.6%	(55.6%, 76.0%)
Dickenson County	51051	67.1%	(38.8%, 86.8%)	69.6%	(58.2%, 79.0%)
Floyd County	51063	53.8%	(22.3%, 82.6%)	67.8%	(58.7%, 75.7%)
Franklin County	51067	87.5%	(62.9%, 96.7%)	75.7%	(71.1%, 79.8%)
Giles County	51071	69.1%	(29.2%, 91.4%)	80.2%	(69.6%, 87.8%)
Grayson County	51077	62.5%	(21.4%, 91.1%)	56.9%	(45.7%, 67.4%)
Henry County	51089	67.6%	(48.3%, 82.3%)	71.7%	(65.9%, 76.8%)
Lee County	51105	56.4%	(27.4%, 81.7%)	66.8%	(56.5%, 75.7%)
Montgomery County	51121	64.5%	(46.6%, 79.1%)	48.7%	(39.4%, 58.2%)
Patrick County	51141	62.7%	(30.1%, 86.8%)	64.3%	(56.8%, 71.2%)
Pittsylvania County	51143	83.6%	(71.0%, 91.4%)	75.5%	(70.4%, 79.9%)
Pulaski County	51155	80.4%	(52.5%, 93.9%)	73.9%	(65.4%, 80.8%)
Russell County	51167	68.3%	(28.9%, 92.0%)	67.7%	(59.8%, 74.7%)
Scott County	51169	79.5%	(58.7%, 91.4%)	73.0%	(64.9%, 79.8%)
Smyth County	51173	33.5%	(15.4%, 58.2%)	61.3%	(52.7%, 69.2%)
Tazewell County	51185	60.6%	(37.7%, 79.6%)	72.7%	(65.8%, 78.6%)
Washington County	51191	88.1%	(67.4%, 94.8%)	70.8%	(63.8%, 77.0%)
Wise County	51195	77.9%	(58.5%, 89.8%)	70.9%	(65.5%, 75.7%)
Wythe County	51197	86.7%	(58.4%, 96.8%)	78.6%	(68.7%, 86.0%)
Bristol City	51520	56.8%	(16.8%, 89.5%)	65.4%	(56.3%, 73.5%)
Danville City	51590	76.3%	(35.3%, 95.0%)	71.6%	(65.1%, 77.4%)
Galax City	51640	100.0%	(8.3%, 100.0%)	65.0%	(41.7%, 82.8%)
Martinsville City	51690	29.2%	(4.8%, 81.6%)	61.3%	(50.0%, 71.5%)
Norton City	51720	100.0%	(0.6%, 100.0%)	75.3%	(60.2%, 86.1%)
Radford City	51750	25.6%	(1.4%, 89.3%)	15.4%	(7.6%, 28.7%)
Roanoke City	51770	79.1%	(63.0%, 89.3%)	76.8%	(71.7%, 81.3%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Amelia County	51007	100.0%	(71.9%, 100.0%)	87.4%	(78.2%, 93.1%)
Brunswick County	51025	93.9%	(61.5%, 97.5%)	74.8%	(66.7%, 81.5%)
Buckingham County	51029	80.0%	(36.2%, 96.6%)	76.0%	(68.4%, 82.3%)
Charles City County	51036	51.1%	(2.6%, 97.6%)	92.4%	(86.4%, 95.8%)
Charlotte County	51037	97.7%	(24.3%, 99.5%)	90.3%	(84.6%, 94.0%)
Chesterfield County	51041	88.7%	(80.3%, 93.8%)	85.4%	(82.7%, 87.7%)
Cumberland County	51049	99.0%	(55.0%, 99.5%)	87.5%	(82.1%, 91.4%)
Dinwiddie County	51053	95.9%	(59.0%, 98.0%)	85.9%	(80.3%, 90.0%)
Goochland County	51075	87.9%	(56.8%, 94.6%)	82.6%	(76.9%, 87.2%)
Greensville County	51081	64.8%	(11.8%, 96.2%)	75.1%	(61.6%, 85.0%)
Halifax County	51083	89.2%	(72.8%, 96.2%)	76.5%	(71.1%, 81.1%)
Hanover County	51085	75.6%	(56.2%, 88.3%)	79.8%	(76.3%, 82.9%)
Henrico County	51087	89.0%	(82.6%, 93.2%)	85.8%	(82.7%, 88.4%)
Lunenburg County	51111	90.4%	(46.6%, 96.6%)	77.0%	(71.8%, 81.5%)
Mecklenburg County	51117	75.7%	(32.0%, 95.4%)	80.4%	(75.0%, 84.8%)
New Kent County	51127	85.0%	(44.6%, 95.8%)	83.0%	(77.6%, 87.3%)
Nottoway County	51135	88.0%	(43.4%, 96.3%)	79.9%	(74.9%, 84.2%)
Powhatan County	51145	80.7%	(29.8%, 97.6%)	76.9%	(71.7%, 81.3%)
Prince Edward County	51147	84.3%	(50.0%, 96.7%)	73.7%	(68.1%, 78.7%)
Prince George County	51149	73.9%	(31.2%, 94.7%)	73.6%	(68.5%, 78.2%)
Surry County	51181	61.7%	(8.0%, 96.8%)	81.5%	(71.5%, 88.6%)
Sussex County	51183	46.0%	(4.1%, 94.5%)	67.2%	(57.7%, 75.5%)
Colonial Heights City	51570	100.0%	(6.2%, 100.0%)	87.6%	(82.3%, 91.5%)
Emporia City	51595	0.0%	(0.0%, 90.3%)	77.7%	(50.3%, 92.3%)
Hopewell City	51670	93.9%	(31.8%, 98.5%)	91.0%	(85.1%, 94.6%)
Petersburg City	51730	89.6%	(60.6%, 98.0%)	90.1%	(83.7%, 94.2%)
Richmond City	51760	82.4%	(70.7%, 90.1%)	80.4%	(75.2%, 84.7%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Accomack County	51001	87.3%	(71.0%, 95.1%)	81.4%	(74.1%, 87.0%)
Essex County	51057	84.5%	(35.7%, 95.9%)	74.7%	(67.3%, 81.0%)
Gloucester County	51073	87.0%	(58.7%, 96.9%)	84.4%	(80.1%, 87.9%)
Isle of Wight County	51093	87.0%	(64.0%, 96.2%)	86.1%	(82.3%, 89.3%)
James City County	51095	68.8%	(42.6%, 86.7%)	72.0%	(67.5%, 76.1%)
King and Queen County	51097	100.0%	(19.0%, 100.0%)	81.0%	(74.1%, 86.5%)
King William County	51101	95.5%	(47.7%, 98.4%)	83.0%	(76.4%, 88.0%)
Lancaster County	51103	78.6%	(41.6%, 95.0%)	87.4%	(80.2%, 92.2%)
Mathews County	51115	69.7%	(34.2%, 91.1%)	80.1%	(72.1%, 86.3%)
Middlesex County	51119	39.9%	(3.9%, 91.7%)	78.9%	(70.2%, 85.6%)
Northampton County	51131	93.6%	(60.0%, 96.5%)	84.3%	(78.0%, 89.1%)
Northumberland County	51133	93.8%	(50.4%, 98.0%)	87.4%	(72.1%, 94.9%)
Richmond County	51159	72.6%	(35.1%, 92.8%)	71.4%	(59.8%, 80.7%)
Southampton County	51175	61.4%	(21.1%, 90.4%)	83.9%	(76.9%, 89.0%)
Westmoreland County	51193	77.9%	(46.5%, 92.0%)	80.3%	(74.0%, 85.3%)
York County	51199	79.1%	(50.6%, 93.3%)	74.7%	(70.9%, 78.2%)
Chesapeake City	51550	84.2%	(70.9%, 92.1%)	81.8%	(78.8%, 84.6%)
Franklin City	51620	94.1%	(64.3%, 97.3%)	91.4%	(83.8%, 95.7%)
Hampton City	51650	76.0%	(59.1%, 87.4%)	79.2%	(73.9%, 83.6%)
Newport News City	51700	90.8%	(74.7%, 97.1%)	78.8%	(73.2%, 83.6%)
Norfolk City	51710	77.0%	(64.9%, 85.9%)	73.5%	(67.3%, 79.0%)
Poquoson City	51735	96.0%	(11.1%, 99.6%)	78.3%	(73.4%, 82.6%)
Portsmouth City	51740	78.2%	(56.7%, 90.8%)	83.0%	(77.9%, 87.2%)
Suffolk City	51800	81.8%	(60.5%, 92.9%)	86.8%	(82.3%, 90.2%)
Virginia Beach City	51810	82.4%	(72.1%, 89.4%)	79.7%	(77.4%, 81.7%)
Williamsburg City	51830	0.0%	(0.0%, 99.4%)	70.0%	(55.5%, 81.4%)

Section 4: Graphical representation

Pap test in past 3 years (women 18+) Central Shenandoah and Lord Fairfax HDs

County/City	LCB | Point | UCB
Augusta County	71.6 | 75.5 | 79.0
Bath County	75.2 | 88.5 | 95.1
Highland County	51.5 | 66.5 | 78.8
Rockbridge County	75.9 | 80.1 | 83.7
Rockingham County	78.4 | 82.9 | 86.6
Buena Vista City	53.9 | 66.3 | 76.8
Harrisonburg City	29.2 | 40.9 | 53.7
Lexington City	33.4 | 53.3 | 72.2
Staunton City	79.1 | 84.6 | 88.9
Waynesboro City	70.7 | 76.0 | 80.6
Clarke County	73.6 | 78.1 | 82.0
Frederick County	77.4 | 81.8 | 85.5
Page County	66.1 | 71.9 | 77.0
Shenandoah County	73.6 | 78.8 | 83.2
Warren County	79.1 | 83.0 | 86.3
Winchester City	68.1 | 76.2 | 82.7

% incidence rate

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

Pap test in past 3 years (women 18+)
Alexandria, Fairfax, Arlington, Loudon, Prince William HDs

Alexandria City	80.1 | 83.8 | 86.9
Arlington City	79.4 | 83.3 | 86.6
Fairfax County	78.5 | 81.4 | 84.0
Fairfax City	68.1 | 72.2 | 76.0
Falls Church City	69.8 | 76.7 | 82.4
Loudoun County	80.6 | 83.1 | 85.3
Prince William County	76.4 | 81.4 | 85.5
Manassas City	78.8 | 86.9 | 92.2
Manassas Park City	63.3 | 76.1 | 85.5

% incidence rate

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

Pap test in past 3 years (women 18+) Alleghany, Roanoke and Central Virginia HDs
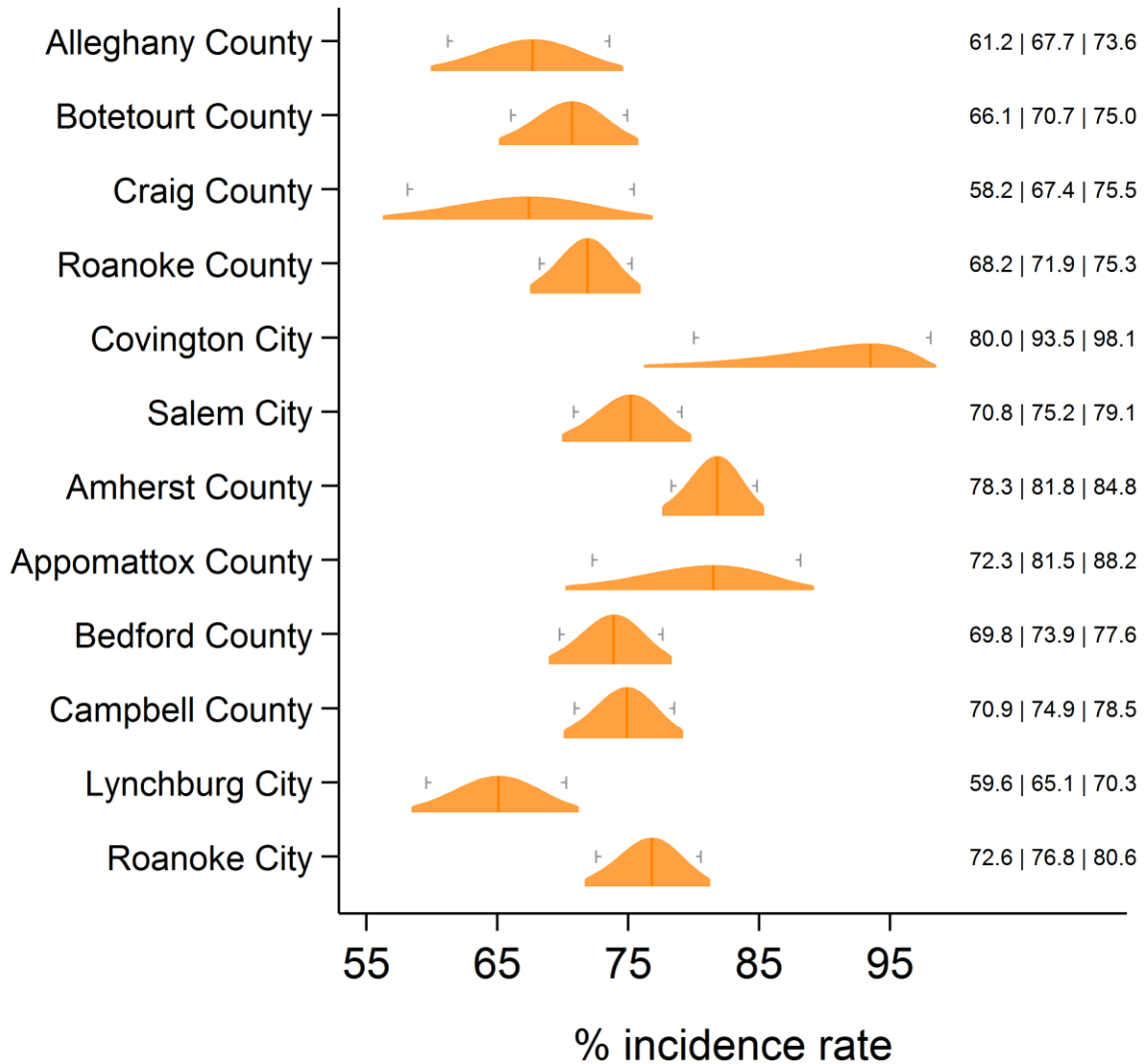
Alleghany County		61.2 | 67.7 | 73.6
Botetourt County		66.1 | 70.7 | 75.0
Craig County		58.2 | 67.4 | 75.5
Roanoke County		68.2 | 71.9 | 75.3
Covington City		80.0 | 93.5 | 98.1
Salem City		70.8 | 75.2 | 79.1
Amherst County		78.3 | 81.8 | 84.8
Appomattox County		72.3 | 81.5 | 88.2
Bedford County		69.8 | 73.9 | 77.6
Campbell County		70.9 | 74.9 | 78.5
Lynchburg City		59.6 | 65.1 | 70.3
Roanoke City		72.6 | 76.8 | 80.6

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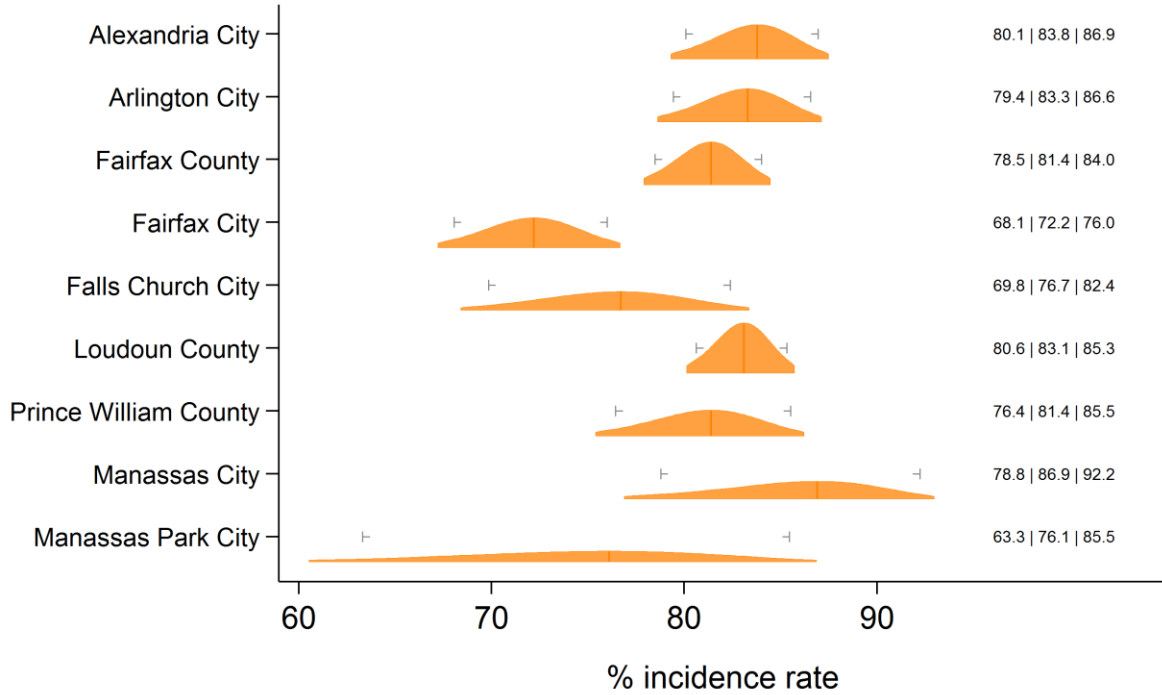
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval

Pap test in past 3 years (women 18+)
Norfolk,Portsmouth,Chesapeake,VA Beach,W. Tidewater HDs
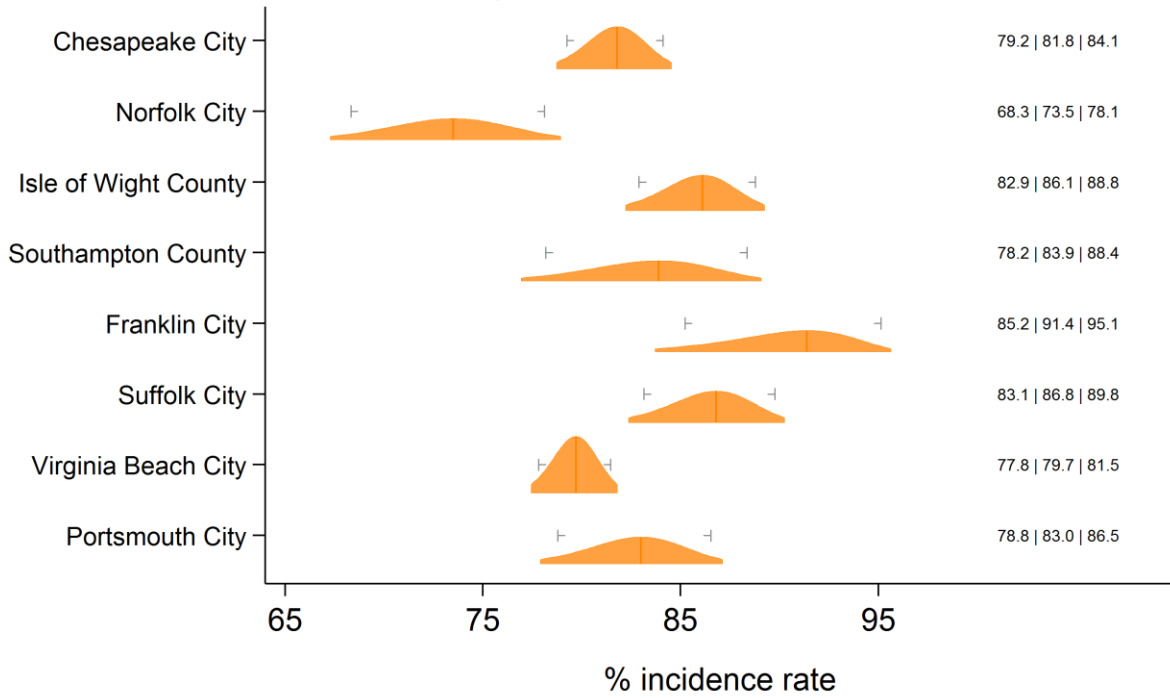
Location	LCB | Point | UCB
Chesapeake City	79.2 | 81.8 | 84.1
Norfolk City	68.3 | 73.5 | 78.1
Isle of Wight County	82.9 | 86.1 | 88.8
Southampton County	78.2 | 83.9 | 88.4
Franklin City	85.2 | 91.4 | 95.1
Suffolk City	83.1 | 86.8 | 89.8
Virginia Beach City	77.8 | 79.7 | 81.5
Portsmouth City	78.8 | 83.0 | 86.5

% incidence rate

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

Pap test in past 3 years (women 18+)
Rappahannock/Rapidan and Rappahannock HDs
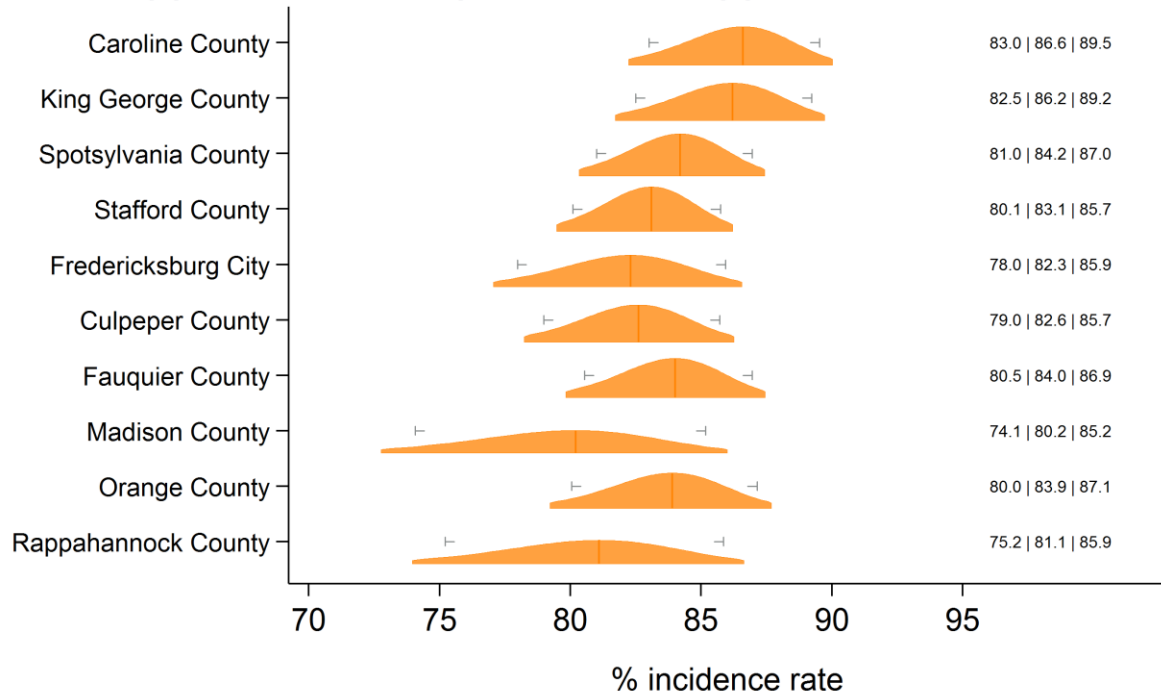
County	LCB | Point | UCB
Caroline County	83.0 | 86.6 | 89.5
King George County	82.5 | 86.2 | 89.2
Spotsylvania County	81.0 | 84.2 | 87.0
Stafford County	80.1 | 83.1 | 85.7
Fredericksburg City	78.0 | 82.3 | 85.9
Culpeper County	79.0 | 82.6 | 85.7
Fauquier County	80.5 | 84.0 | 86.9
Madison County	74.1 | 80.2 | 85.2
Orange County	80.0 | 83.9 | 87.1
Rappahannock County	75.2 | 81.1 | 85.9

% incidence rate

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

Pap test in past 3 years (women 18+) Thomas Jefferson and Piedmont HDs
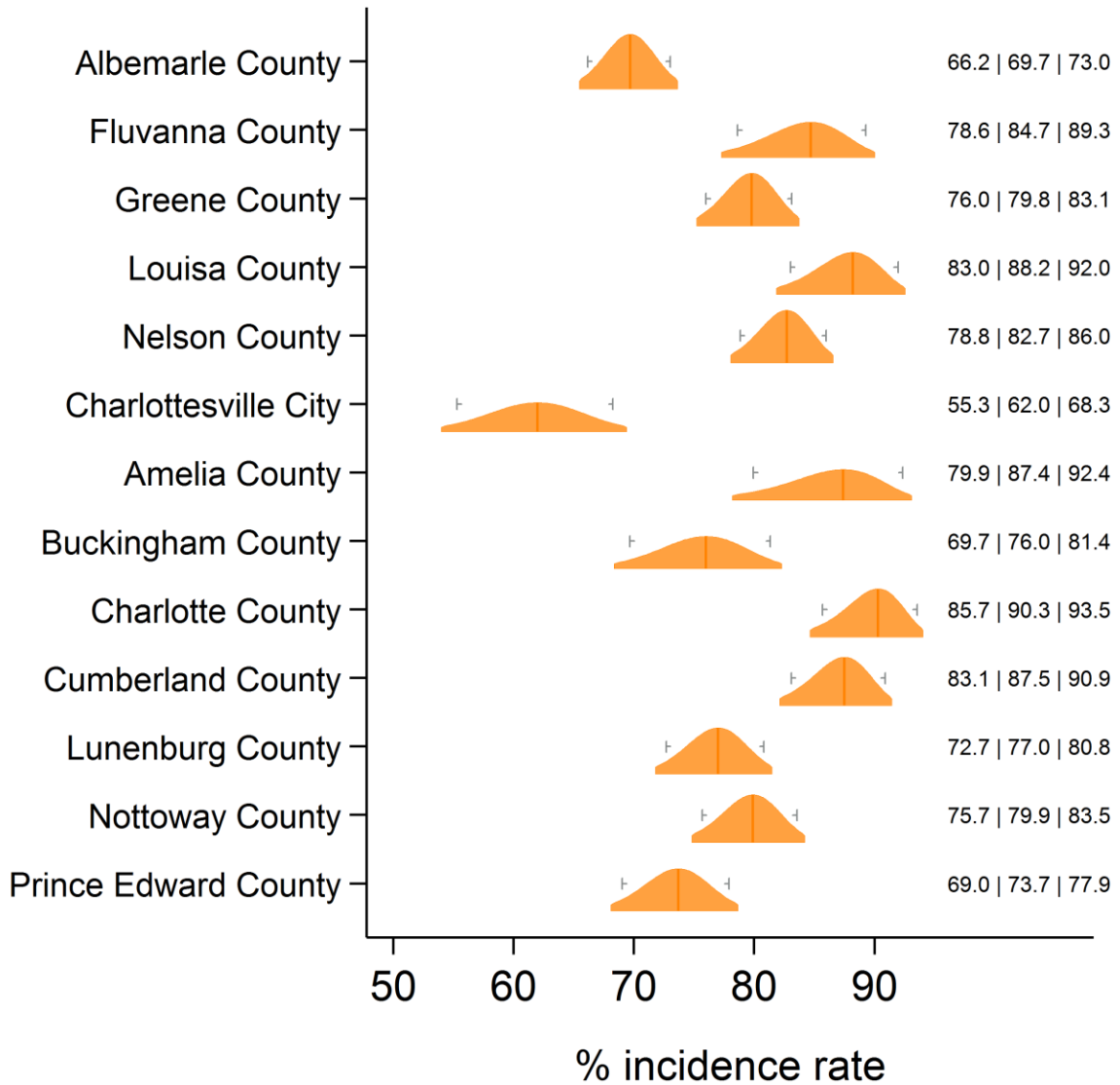
County	LCB | Point | UCB
Albemarle County	66.2 | 69.7 | 73.0
Fluvanna County	78.6 | 84.7 | 89.3
Greene County	76.0 | 79.8 | 83.1
Louisa County	83.0 | 88.2 | 92.0
Nelson County	78.8 | 82.7 | 86.0
Charlottesville City	55.3 | 62.0 | 68.3
Amelia County	79.9 | 87.4 | 92.4
Buckingham County	69.7 | 76.0 | 81.4
Charlotte County	85.7 | 90.3 | 93.5
Cumberland County	83.1 | 87.5 | 90.9
Lunenburg County	72.7 | 77.0 | 80.8
Nottoway County	75.7 | 79.9 | 83.5
Prince Edward County	69.0 | 73.7 | 77.9

% incidence rate

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

Pap test in past 3 years (women 18+)
Pittsylvania/Danville, Southside and West Piedmont HDs
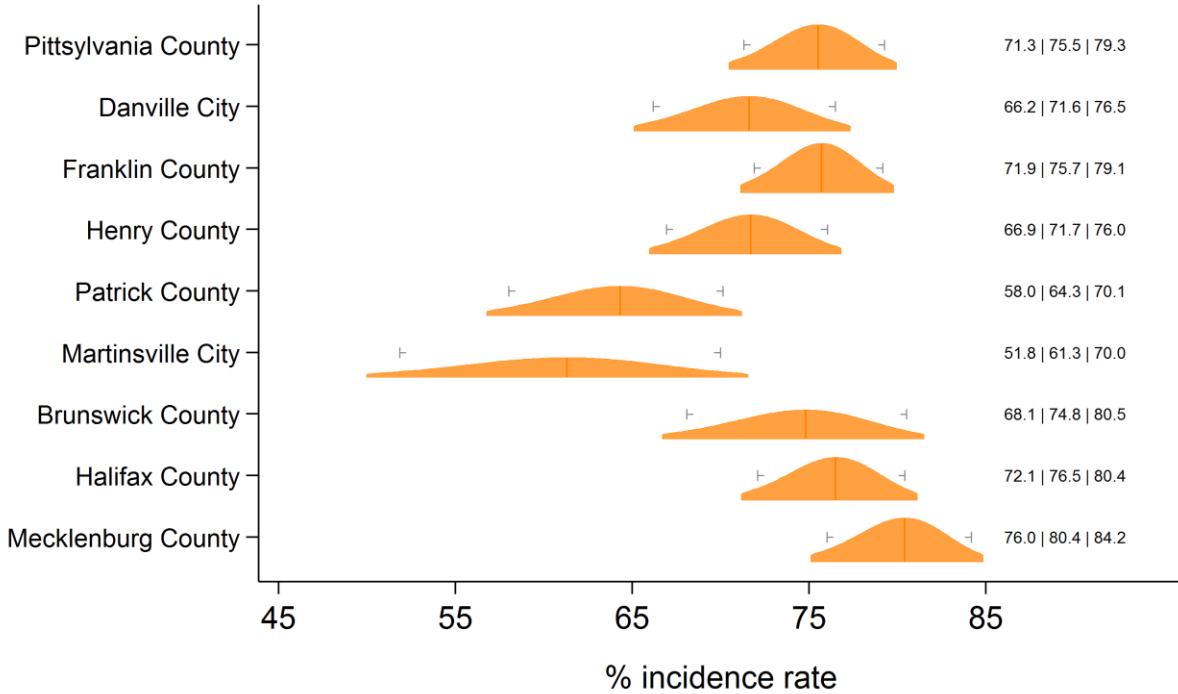
County/City	LCB | Point | UCB
Pittsylvania County	71.3 | 75.5 | 79.3
Danville City	66.2 | 71.6 | 76.5
Franklin County	71.9 | 75.7 | 79.1
Henry County	66.9 | 71.7 | 76.0
Patrick County	58.0 | 64.3 | 70.1
Martinsville City	51.8 | 61.3 | 70.0
Brunswick County	68.1 | 74.8 | 80.5
Halifax County	72.1 | 76.5 | 80.4
Mecklenburg County	76.0 | 80.4 | 84.2

% incidence rate

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

Pap test in past 3 years (women 18+)
Chesterfield, Chickahominy, Henrico and Richmond HDs
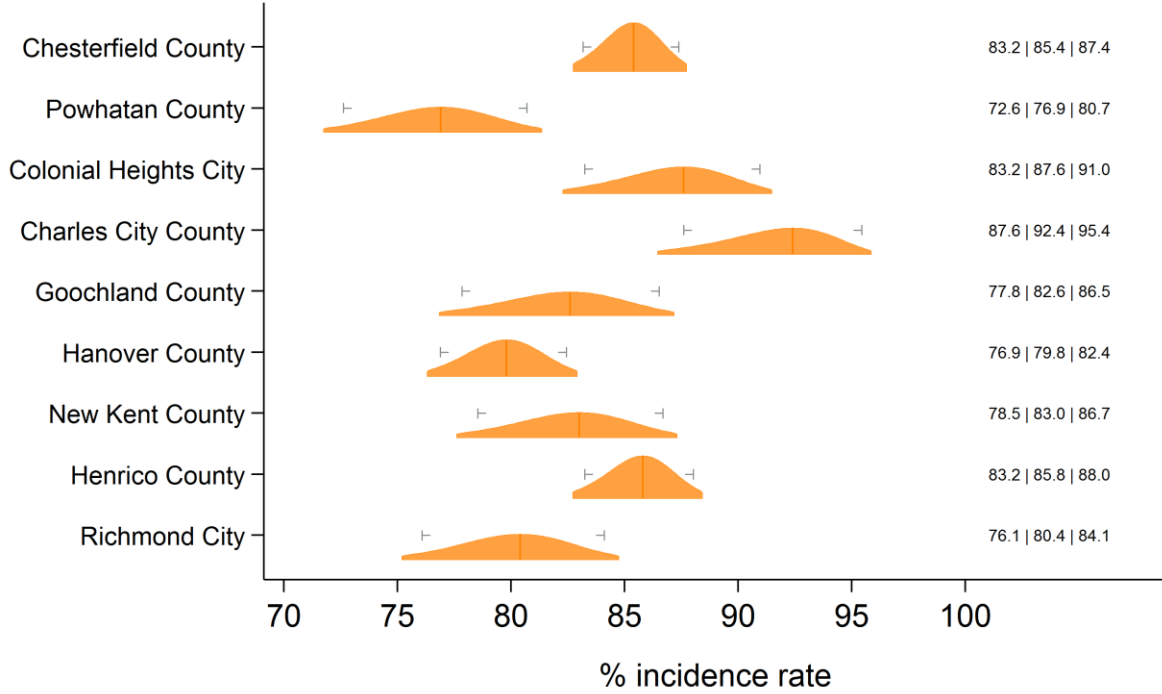
Chesterfield County	83.2 | 85.4 | 87.4
Powhatan County	72.6 | 76.9 | 80.7
Colonial Heights City	83.2 | 87.6 | 91.0
Charles City County	87.6 | 92.4 | 95.4
Goochland County	77.8 | 82.6 | 86.5
Hanover County	76.9 | 79.8 | 82.4
New Kent County	78.5 | 83.0 | 86.7
Henrico County	83.2 | 85.8 | 88.0
Richmond City	76.1 | 80.4 | 84.1

% incidence rate

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

Pap test in past 3 years (women 18+) Cumberland Plateau and Lenowisco HDs
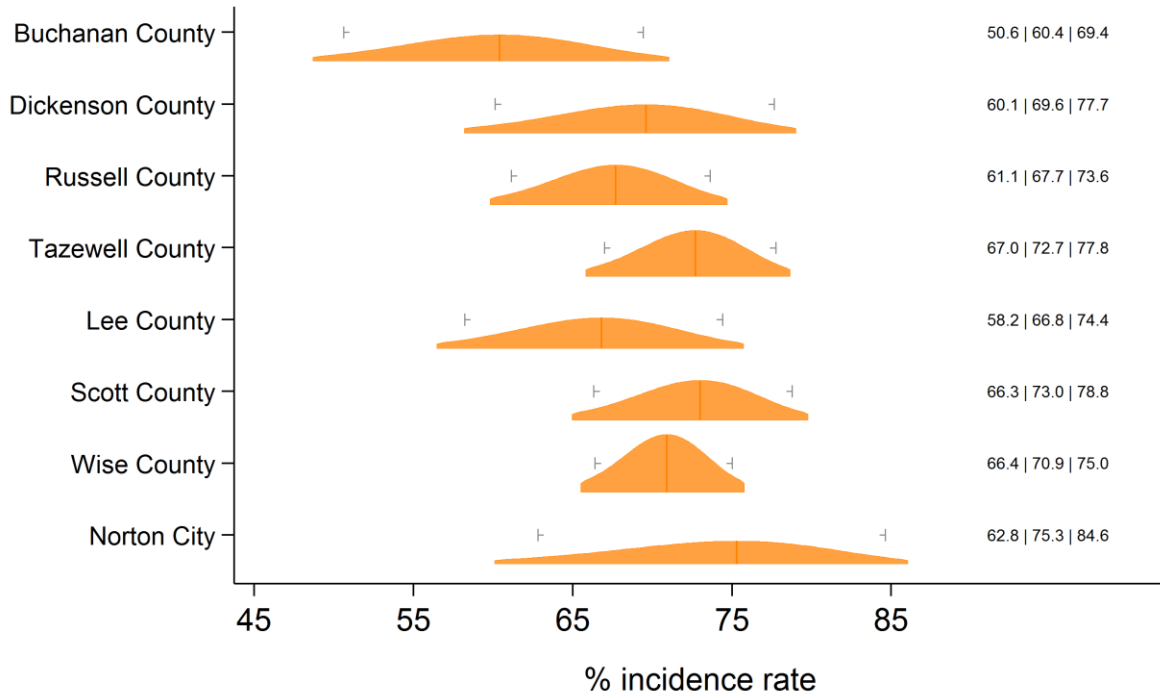
County	1-sided 95% LCB	Point Estimate	1-sided 95% UCB
Buchanan County	50.6	60.4	69.4
Dickenson County	60.1	69.6	77.7
Russell County	61.1	67.7	73.6
Tazewell County	67.0	72.7	77.8
Lee County	58.2	66.8	74.4
Scott County	66.3	73.0	78.8
Wise County	66.4	70.9	75.0
Norton City	62.8	75.3	84.6

% incidence rate

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

Pap test in past 3 years (women 18+) New River and Mount Rogers HDs

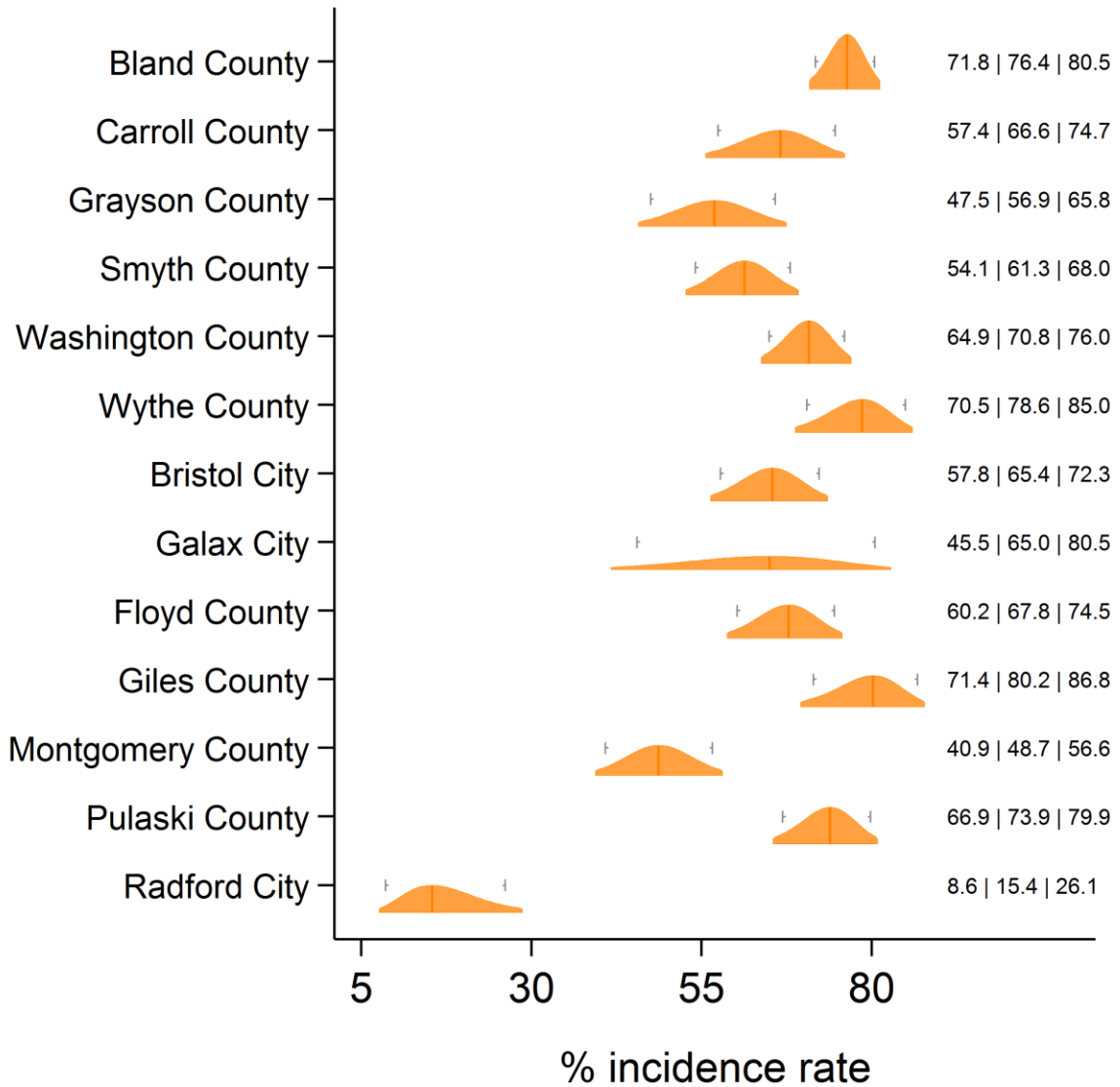| County	LCB | Point | UCB
Bland County	71.8 | 76.4 | 80.5
Carroll County	57.4 | 66.6 | 74.7
Grayson County	47.5 | 56.9 | 65.8
Smyth County	54.1 | 61.3 | 68.0
Washington County	64.9 | 70.8 | 76.0
Wythe County	70.5 | 78.6 | 85.0
Bristol City	57.8 | 65.4 | 72.3
Galax City	45.5 | 65.0 | 80.5
Floyd County	60.2 | 67.8 | 74.5
Giles County	71.4 | 80.2 | 86.8
Montgomery County	40.9 | 48.7 | 56.6
Pulaski County	66.9 | 73.9 | 79.9
Radford City	8.6 | 15.4 | 26.1

% incidence rate

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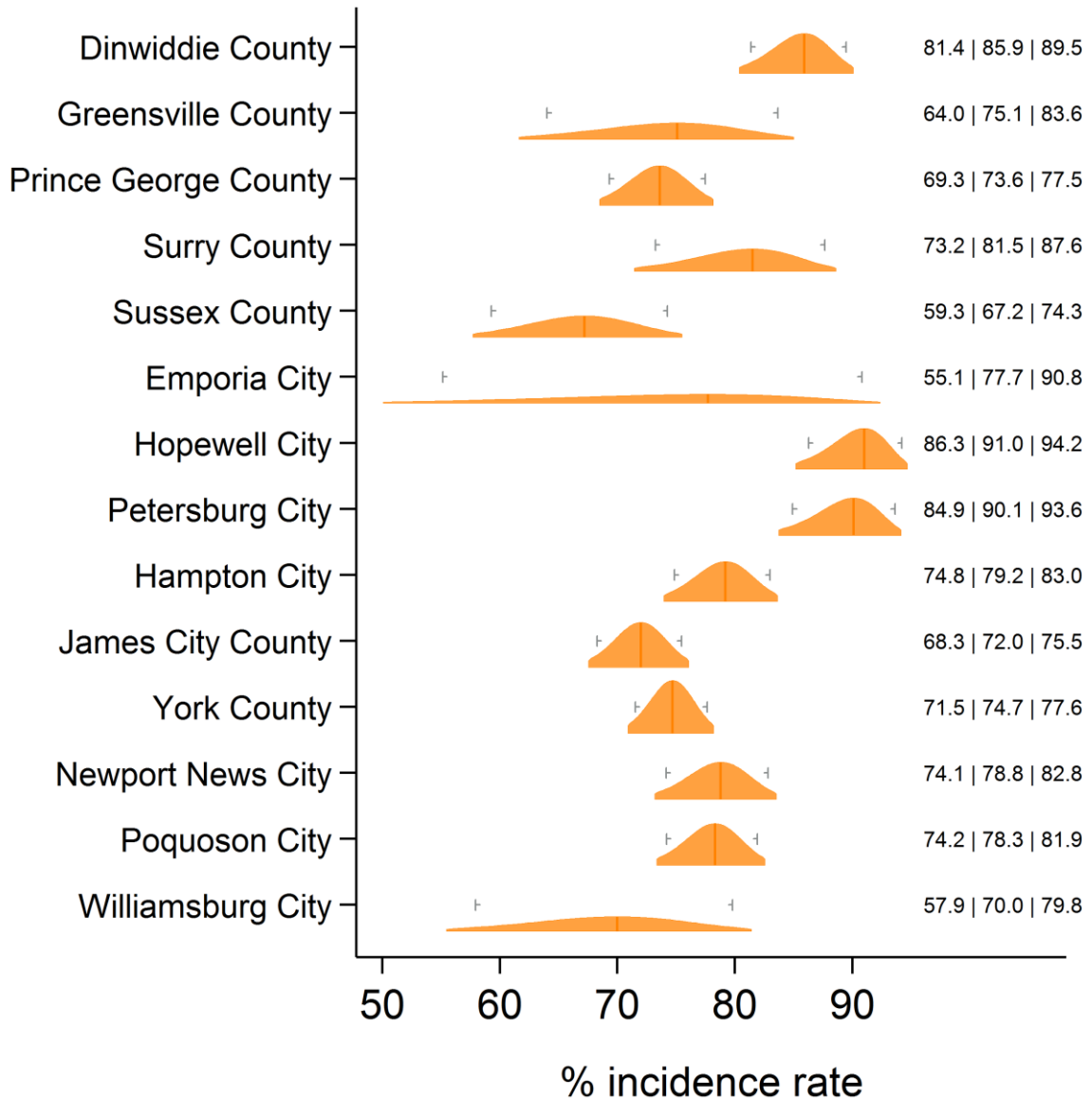Gray markers: 90% confidence interval

Pap test in past 3 years (women 18+) Crater, Peninsula and Hampton HDs

County/City	LCB	Point Estimate	UCB
Dinwiddie County	81.4	85.9	89.5
Greensville County	64.0	75.1	83.6
Prince George County	69.3	73.6	77.5
Surry County	73.2	81.5	87.6
Sussex County	59.3	67.2	74.3
Emporia City	55.1	77.7	90.8
Hopewell City	86.3	91.0	94.2
Petersburg City	84.9	90.1	93.6
Hampton City	74.8	79.2	83.0
James City County	68.3	72.0	75.5
York County	71.5	74.7	77.6
Newport News City	74.1	78.8	82.8
Poquoson City	74.2	78.3	81.9
Williamsburg City	57.9	70.0	79.8

% incidence rate

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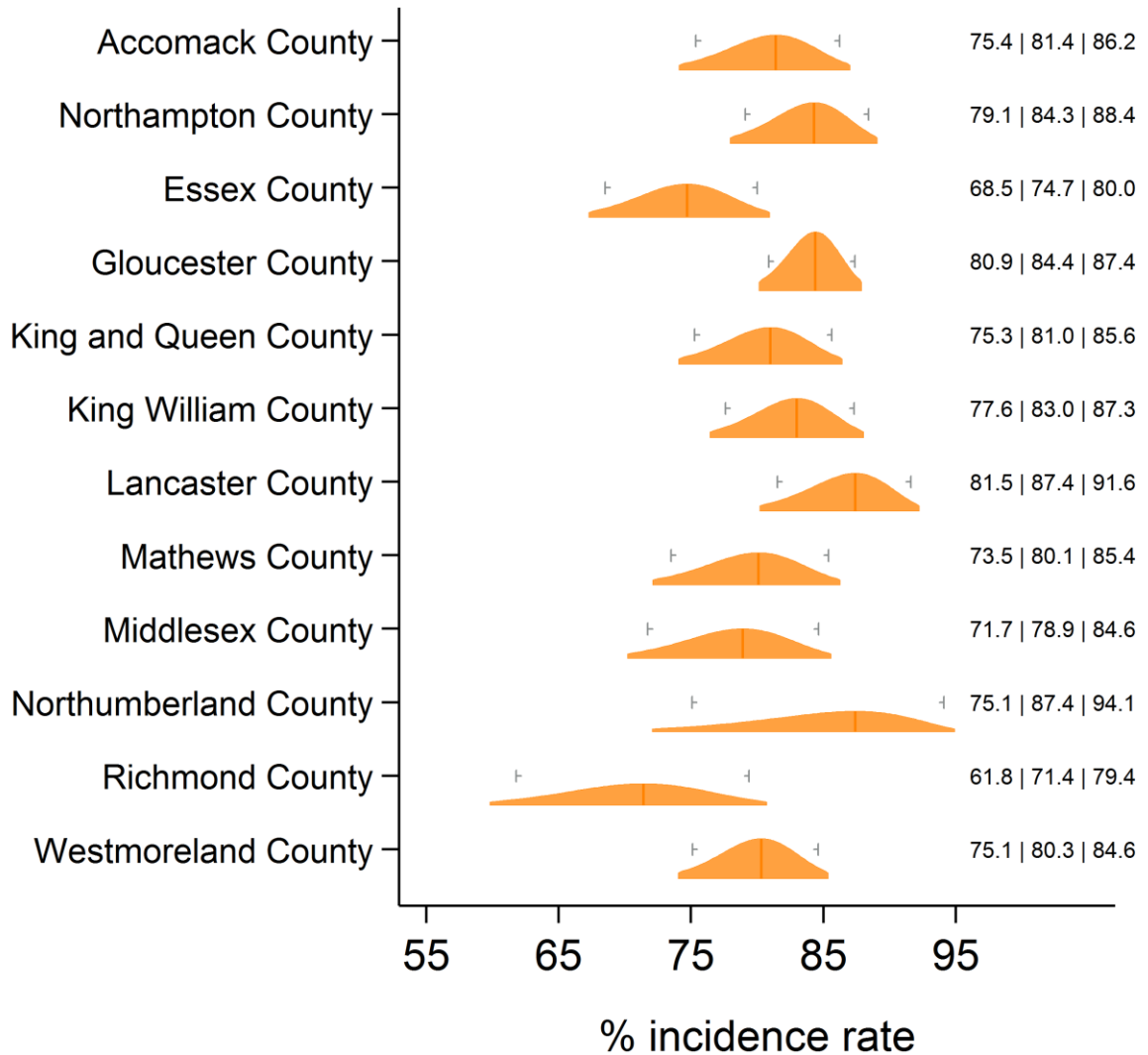Gray markers: 90% confidence interval

Pap test in past 3 years (women 18+) Eastern Shore and Three Rivers HDs

County	LCB | Point | UCB
Accomack County	75.4 | 81.4 | 86.2
Northampton County	79.1 | 84.3 | 88.4
Essex County	68.5 | 74.7 | 80.0
Gloucester County	80.9 | 84.4 | 87.4
King and Queen County	75.3 | 81.0 | 85.6
King William County	77.6 | 83.0 | 87.3
Lancaster County	81.5 | 87.4 | 91.6
Mathews County	73.5 | 80.1 | 85.4
Middlesex County	71.7 | 78.9 | 84.6
Northumberland County	75.1 | 87.4 | 94.1
Richmond County	61.8 | 71.4 | 79.4
Westmoreland County	75.1 | 80.3 | 84.6

% 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: 53 areas.

Direct estimate is outside the 95% SAE Wilson CI: 80 areas.

SAE estimate is inside the 95% direct Wilson CI: 132 areas.

SAE estimate is outside the 95% direct Wilson CI: 1 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: 117 areas.

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

Direct standard error is zero: 15 areas.

Proportion of SAE variance due to ACS sampling error: min = 0.31%; med = 19.41%; max = 66.27%.

Proportion of SAE variance to sampling error in regression coefficient estimates: min = 32.35%; med = 77.06%; max = 98.75%.

Proportion of SAE variance due to model selection: min = 0.03%; med = 1.75%; max = 34.55%.