Indicator 5: Doctor Inaccessible Due to Cost

Internal variable name: outc5_doctor_cost

Section 1: Definition

Definition: Was there a time in the past 12 months when you needed to see a doctor but could not because of cost?

Section 2: Predictive models

	Mixed, demos only	Logit, no area effects	Mixed with area covariates
	b/se	b/se	b/se
Outcome 5: Doctor Inaccessible Due to Cost			
Non-Hispanic Black vs. Non-Hispanic White	0.3442**	0.3585**	0.3585**
	(0.1254)	(0.1171)	(0.1238)
Non-Hispanic Asian vs. Non-Hispanic White	0.2270	0.2613	0.2613
	(0.2953)	(0.2936)	(0.2954)
Non-Hispanic Other vs. Non-Hispanic White	0.3290	0.3560	0.3560
	(0.1992)	(0.1929)	(0.1955)
Hispanic vs. Non-Hispanic White	0.8909***	0.9140***	0.9140***
	(0.1874)	(0.1772)	(0.1832)
Female	0.3929***	0.3869***	0.3869***
	(0.1088)	(0.0944)	(0.1087)
Age 18-24 vs. 65+	1.1018***	1.1232***	1.1232***
	(0.1824)	(0.1996)	(0.1835)
Age 25-34 vs. 65+	1.3942***	1.3859***	1.3859***
	(0.1670)	(0.1703)	(0.1668)
Age 35-44 vs. 65+	1.1933***	1.1921***	1.1921***
	(0.1539)	(0.1667)	(0.1550)
Age 45-54 vs. 65+	1.2956***	1.3020***	1.3020***
	(0.1693)	(0.1535)	(0.1693)
Age 55-64 vs. 65+	1.0051***	1.0172***	1.0172***
	(0.1721)	(0.1524)	(0.1715)
% households without phone service		-0.0432	-0.0432*
		(0.0237)	(0.0216)
% with disability		0.0451*	0.0451**
		(0.0184)	(0.0135)
Estimated infant mortality rate		-0.0254*	-0.0254**
		(0.0121)	(0.0095)
% renter occupied housing units		0.0104*	0.0104**
		(0.0046)	(0.0035)
Prostate Cancer Male Rate		0.0042	0.0042
		(0.0025)	(0.0021)

Crude mortality rate of Alzheimer's disease per 10,000		0.1301	0.1301
		(0.0837)	(0.0725)
{Crude mortality rate of Alzheimer's disease} interacted with {Prostate Cancer Male rate}		-0.0016*	-0.0016*
		(0.0008)	(0.0007)
Compound % lacking kitchen or complete plumbing		-0.0818	-0.0818
		(0.2049)	(0.1504)
{% lacking kitchen or plumbing}		0.0131	0.0131
interacted with {% with disabilities}		(0.0110)	(0.0067)
Intercept	-3.3114***	-4.4389***	-4.4389***
	(0.1590)	(0.3444)	(0.3038)
Area effect variance	0.1245*		0.0000
	(0.0615)		(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	12.6%	(7.0%, 21.6%)	10.5%	(8.9%, 12.3%)
Bath County	51017	15.3%	(4.4%, 50.5%)	19.9%	(12.3%, 30.6%)
Caroline County	51033	28.1%	(12.9%, 50.6%)	15.2%	(12.5%, 18.3%)
Clarke County	51043	15.3%	(4.3%, 41.7%)	11.7%	(9.9%, 13.8%)
Culpeper County	51047	29.2%	(17.1%, 45.3%)	11.3%	(10.0%, 12.7%)
Fauquier County	51061	15.8%	(7.9%, 29.2%)	10.6%	(9.2%, 12.3%)
Frederick County	51069	8.0%	(4.0%, 15.4%)	10.3%	(9.0%, 11.7%)
Highland County	51091	0.0%	(0.0%, 83.2%)	11.0%	(8.5%, 14.1%)
King George County	51099	14.7%	(3.7%, 43.4%)	13.7%	(11.7%, 15.9%)
Madison County	51113	7.5%	(3.6%, 28.4%)	14.1%	(10.1%, 19.5%)
Orange County	51137	3.4%	(2.2%, 16.1%)	11.4%	(10.0%, 13.0%)
Page County	51139	23.7%	(8.3%, 51.5%)	16.6%	(13.4%, 20.5%)
Rappahannock County	51157	25.9%	(7.9%, 58.7%)	12.3%	(10.2%, 14.7%)
Rockbridge County	51163	20.3%	(7.7%, 43.8%)	16.3%	(13.8%, 19.2%)
Rockingham County	51165	7.1%	(3.4%, 14.2%)	12.7%	(10.6%, 15.2%)
Shenandoah County	51171	11.3%	(4.6%, 25.0%)	11.2%	(9.2%, 13.6%)
Spotsylvania County	51177	11.6%	(5.5%, 22.8%)	10.7%	(9.0%, 12.7%)
Stafford County	51179	7.4%	(3.5%, 15.1%)	10.3%	(9.1%, 11.6%)
Warren County	51187	9.4%	(2.9%, 26.4%)	12.4%	(11.0%, 13.8%)
Buena Vista City	51530	0.0%	(-0.0%, 89.6%)	12.2%	(9.0%, 16.4%)
Fredericksburg City	51630	14.8%	(3.8%, 43.3%)	17.9%	(14.1%, 22.6%)
Harrisonburg City	51660	46.2%	(18.8%, 76.1%)	12.3%	(10.0%, 15.0%)
Lexington City	51678	0.0%	(0.0%, 99.4%)	3.4%	(0.8%, 12.6%)
Staunton City	51790	10.8%	(2.0%, 52.6%)	10.0%	(5.4%, 17.7%)
Waynesboro City	51820	19.6%	(4.7%, 54.6%)	10.8%	(9.0%, 13.0%)
Winchester City	51840	20.4%	(5.0%, 55.4%)	17.4%	(13.6%, 21.9%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Albemarle County	51003	19.9%	(12.0%, 31.2%)	12.0%	(9.6%, 14.9%)
Alleghany County	51005	15.3%	(5.7%, 35.0%)	9.0%	(6.6%, 12.2%)
Amherst County	51009	1.9%	(1.2%, 18.6%)	9.0%	(7.0%, 11.4%)
Appomattox County	51011	20.5%	(6.5%, 48.7%)	12.7%	(10.5%, 15.2%)
Arlington City	51013	13.8%	(6.8%, 26.1%)	13.0%	(11.0%, 15.3%)
Bedford County	51019	10.2%	(4.9%, 20.3%)	11.0%	(9.4%, 12.8%)
Botetourt County	51023	12.8%	(6.0%, 25.1%)	11.3%	(9.6%, 13.3%)
Campbell County	51031	16.1%	(7.7%, 30.7%)	10.9%	(9.3%, 12.7%)
Craig County	51045	0.0%	(0.0%, 73.6%)	13.1%	(9.6%, 17.6%)
Fairfax County	51059	12.0%	(8.2%, 17.3%)	11.8%	(10.4%, 13.3%)
Fluvanna County	51065	28.6%	(11.0%, 56.3%)	11.2%	(9.7%, 12.9%)
Greene County	51079	11.8%	(2.9%, 37.0%)	8.8%	(6.4%, 12.0%)
Loudoun County	51107	8.2%	(4.5%, 14.3%)	10.6%	(8.9%, 12.5%)
Louisa County	51109	12.4%	(4.4%, 30.0%)	13.0%	(11.1%, 15.1%)
Nelson County	51125	9.5%	(2.4%, 31.2%)	17.0%	(12.9%, 21.9%)
Prince William County	51153	9.1%	(6.0%, 13.6%)	11.8%	(10.4%, 13.3%)
Roanoke County	51161	11.8%	(6.5%, 20.6%)	9.6%	(8.6%, 10.8%)
Alexandria City	51510	13.7%	(6.5%, 26.6%)	13.4%	(10.8%, 16.5%)
Charlottesville City	51540	18.9%	(5.5%, 48.4%)	19.2%	(13.1%, 27.3%)
Covington City	51580	0.0%	(0.0%, 99.4%)	23.7%	(18.4%, 29.9%)
Fairfax City	51600	9.3%	(3.9%, 20.3%)	10.1%	(8.7%, 11.6%)
Falls Church City	51610	39.6%	(5.0%, 89.0%)	11.0%	(9.2%, 13.2%)
Lynchburg City	51680	17.0%	(7.5%, 33.9%)	12.1%	(10.4%, 14.0%)
Manassas City	51683	0.0%	(0.0%, 31.6%)	13.4%	(11.0%, 16.2%)
Manassas Park City	51685	0.0%	(-0.0%, 96.8%)	11.7%	(9.2%, 14.9%)
Salem City	51775	15.4%	(3.3%, 48.9%)	14.3%	(11.7%, 17.3%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Bland County	51021	22.4%	(3.0%, 73.0%)	14.7%	(12.2%, 17.7%)
Buchanan County	51027	24.1%	(13.0%, 40.5%)	20.5%	(17.3%, 24.1%)
Carroll County	51035	13.1%	(4.7%, 31.5%)	12.9%	(10.1%, 16.4%)
Dickenson County	51051	18.6%	(8.0%, 37.4%)	20.9%	(16.4%, 26.2%)
Floyd County	51063	16.3%	(6.6%, 34.9%)	11.5%	(10.2%, 12.9%)
Franklin County	51067	9.7%	(3.7%, 23.1%)	12.8%	(11.1%, 14.7%)
Giles County	51071	19.0%	(6.9%, 42.8%)	14.5%	(11.6%, 17.9%)
Grayson County	51077	2.3%	(1.1%, 23.6%)	8.7%	(5.5%, 13.5%)
Henry County	51089	11.1%	(4.1%, 26.8%)	12.7%	(10.8%, 14.9%)
Lee County	51105	41.8%	(23.3%, 63.0%)	38.4%	(31.6%, 45.6%)
Montgomery County	51121	9.3%	(4.4%, 18.4%)	10.2%	(8.1%, 12.8%)
Patrick County	51141	13.6%	(5.1%, 31.5%)	20.1%	(17.5%, 23.0%)
Pittsylvania County	51143	8.7%	(5.0%, 14.8%)	11.9%	(9.9%, 14.2%)
Pulaski County	51155	12.0%	(4.6%, 28.0%)	13.2%	(11.2%, 15.4%)
Russell County	51167	10.9%	(4.2%, 25.3%)	15.1%	(11.8%, 19.0%)
Scott County	51169	28.6%	(16.0%, 45.6%)	29.0%	(24.4%, 34.0%)
Smyth County	51173	13.0%	(4.9%, 30.2%)	16.8%	(14.3%, 19.7%)
Tazewell County	51185	22.9%	(12.9%, 37.3%)	23.6%	(19.7%, 27.9%)
Washington County	51191	15.5%	(7.3%, 29.8%)	15.0%	(13.3%, 16.8%)
Wise County	51195	18.9%	(10.2%, 32.3%)	24.5%	(21.8%, 27.5%)
Wythe County	51197	16.3%	(7.8%, 31.0%)	17.3%	(14.8%, 20.2%)
Bristol City	51520	8.5%	(2.0%, 48.5%)	22.5%	(15.0%, 32.4%)
Danville City	51590	19.2%	(6.8%, 43.5%)	21.0%	(18.5%, 23.7%)
Galax City	51640	64.4%	(13.6%, 94.8%)	8.1%	(3.2%, 19.4%)
Martinsville City	51690	12.9%	(1.7%, 55.2%)	22.2%	(15.1%, 31.5%)
Norton City	51720	15.7%	(2.2%, 76.9%)	22.4%	(13.5%, 34.8%)
Radford City	51750	0.0%	(0.0%, 56.8%)	22.2%	(14.5%, 32.4%)
Roanoke City	51770	12.6%	(7.5%, 20.5%)	15.7%	(13.3%, 18.6%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Amelia County	51007	0.0%	(0.0%, 23.3%)	14.0%	(11.6%, 16.7%)
Brunswick County	51025	25.9%	(9.7%, 53.2%)	14.9%	(11.5%, 19.1%)
Buckingham County	51029	46.5%	(24.0%, 70.4%)	20.0%	(13.7%, 28.3%)
Charles City County	51036	23.1%	(5.5%, 61.0%)	15.4%	(12.2%, 19.2%)
Charlotte County	51037	6.1%	(3.2%, 34.9%)	13.1%	(9.4%, 18.0%)
Chesterfield County	51041	10.2%	(6.5%, 15.6%)	10.5%	(9.1%, 12.1%)
Cumberland County	51049	25.2%	(8.3%, 55.7%)	17.0%	(13.8%, 20.9%)
Dinwiddie County	51053	3.8%	(2.5%, 19.7%)	9.7%	(6.6%, 14.1%)
Goochland County	51075	1.6%	(1.1%, 20.8%)	7.9%	(6.0%, 10.3%)
Greensville County	51081	21.9%	(5.8%, 56.0%)	23.3%	(18.0%, 29.7%)
Halifax County	51083	16.2%	(7.5%, 31.7%)	14.0%	(10.2%, 18.8%)
Hanover County	51085	12.1%	(6.2%, 22.2%)	8.5%	(7.2%, 10.1%)
Henrico County	51087	12.9%	(9.0%, 18.2%)	12.5%	(11.2%, 13.8%)
Lunenburg County	51111	32.1%	(11.0%, 64.5%)	17.8%	(14.7%, 21.5%)
Mecklenburg County	51117	5.5%	(3.5%, 16.2%)	15.9%	(13.1%, 19.3%)
New Kent County	51127	5.0%	(0.8%, 25.4%)	7.2%	(5.5%, 9.4%)
Nottoway County	51135	26.0%	(9.0%, 55.4%)	16.3%	(13.0%, 20.2%)
Powhatan County	51145	0.0%	(-0.0%, 32.8%)	9.5%	(7.3%, 12.1%)
Prince Edward County	51147	7.1%	(1.8%, 23.9%)	12.6%	(9.6%, 16.4%)
Prince George County	51149	3.7%	(2.3%, 16.2%)	9.3%	(6.6%, 13.0%)
Surry County	51181	22.6%	(4.0%, 66.8%)	10.6%	(7.8%, 14.3%)
Sussex County	51183	23.5%	(5.7%, 61.0%)	15.9%	(11.5%, 21.6%)
Colonial Heights City	51570	31.9%	(7.9%, 71.9%)	11.8%	(7.4%, 18.2%)
Emporia City	51595	31.1%	(3.1%, 86.3%)	21.9%	(15.9%, 29.3%)
Hopewell City	51670	18.7%	(4.2%, 54.8%)	10.2%	(5.5%, 18.1%)
Petersburg City	51730	5.4%	(1.7%, 15.6%)	8.1%	(4.3%, 14.8%)
Richmond City	51760	17.2%	(11.3%, 25.5%)	20.1%	(15.9%, 25.1%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Accomack County	51001	15.0%	(6.2%, 32.2%)	13.1%	(10.8%, 15.9%)
Essex County	51057	2.9%	(1.3%, 30.9%)	9.1%	(5.6%, 14.5%)
Gloucester County	51073	10.0%	(3.0%, 28.6%)	11.5%	(9.4%, 14.0%)
Isle of Wight County	51093	10.6%	(4.5%, 22.8%)	10.5%	(8.8%, 12.5%)
James City County	51095	9.7%	(4.2%, 20.7%)	11.0%	(8.7%, 13.8%)
King and Queen County	51097	24.0%	(3.3%, 74.6%)	10.0%	(6.7%, 14.5%)
King William County	51101	5.4%	(2.0%, 28.8%)	8.4%	(6.7%, 10.4%)
Lancaster County	51103	19.2%	(2.8%, 65.9%)	13.7%	(9.3%, 19.8%)
Mathews County	51115	6.6%	(1.1%, 32.0%)	8.2%	(4.5%, 14.4%)
Middlesex County	51119	11.0%	(1.5%, 49.9%)	12.1%	(9.6%, 15.2%)
Northampton County	51131	13.9%	(4.9%, 33.5%)	7.5%	(5.1%, 11.0%)
Northumberland County	51133	2.8%	(1.2%, 24.9%)	11.8%	(9.2%, 14.8%)
Richmond County	51159	25.3%	(11.2%, 47.7%)	18.4%	(15.5%, 21.7%)
Southampton County	51175	18.6%	(4.1%, 54.9%)	17.1%	(14.3%, 20.3%)
Westmoreland County	51193	44.3%	(18.8%, 73.2%)	14.1%	(12.0%, 16.4%)
York County	51199	12.5%	(5.0%, 27.6%)	9.9%	(8.7%, 11.2%)
Chesapeake City	51550	11.0%	(6.7%, 17.3%)	11.3%	(10.1%, 12.5%)
Franklin City	51620	8.4%	(2.7%, 23.3%)	9.5%	(5.7%, 15.4%)
Hampton City	51650	11.8%	(7.0%, 19.3%)	13.5%	(12.0%, 15.1%)
Newport News City	51700	18.0%	(11.6%, 26.7%)	16.1%	(14.2%, 18.2%)
Norfolk City	51710	18.3%	(12.2%, 26.5%)	16.8%	(14.6%, 19.4%)
Poquoson City	51735	0.0%	(0.0%, 54.0%)	11.8%	(10.0%, 14.0%)
Portsmouth City	51740	14.7%	(7.9%, 25.9%)	15.9%	(13.7%, 18.4%)
Suffolk City	51800	12.2%	(6.1%, 23.2%)	12.3%	(10.9%, 13.8%)
Virginia Beach City	51810	13.0%	(9.1%, 18.2%)	13.3%	(12.3%, 14.5%)
Williamsburg City	51830	0.0%	(0.0%, 55.7%)	4.3%	(0.9%, 17.9%)

Section 4: Graphical representation

Could not afford doctor in the past 12 months
Alleghany, Roanoke and Central Virginia HDs
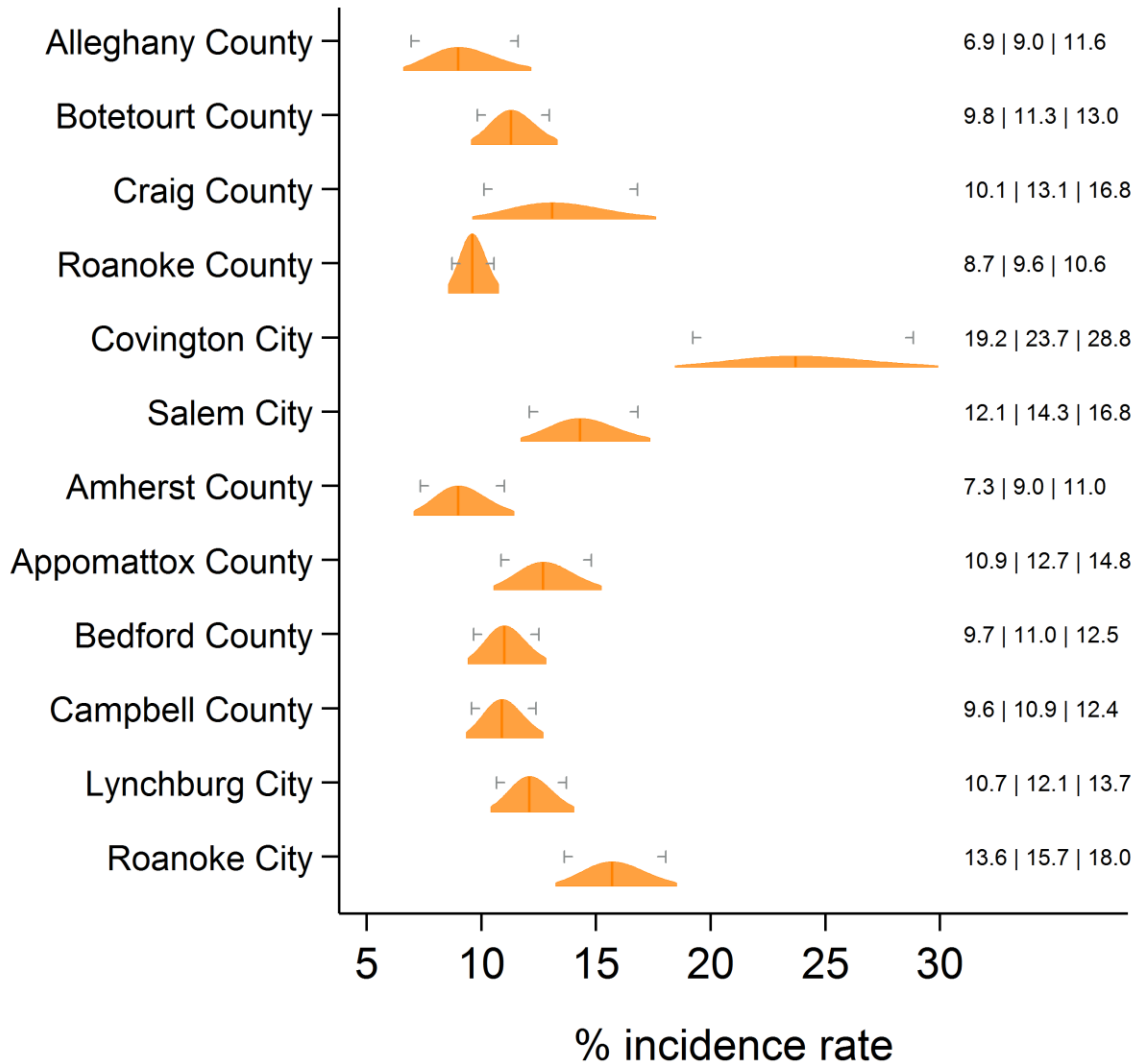
County/City	Estimates
Alleghany County	6.9	9.0	11.6
Botetourt County	9.8	11.3	13.0
Craig County	10.1	13.1	16.8
Roanoke County	8.7	9.6	10.6
Covington City	19.2	23.7	28.8
Salem City	12.1	14.3	16.8
Amherst County	7.3	9.0	11.0
Appomattox County	10.9	12.7	14.8
Bedford County	9.7	11.0	12.5
Campbell County	9.6	10.9	12.4
Lynchburg City	10.7	12.1	13.7
Roanoke City	13.6	15.7	18.0

% incidence rate

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

Could not afford doctor in the past 12 months
Cumberland Plateau and Lenowisco HDs
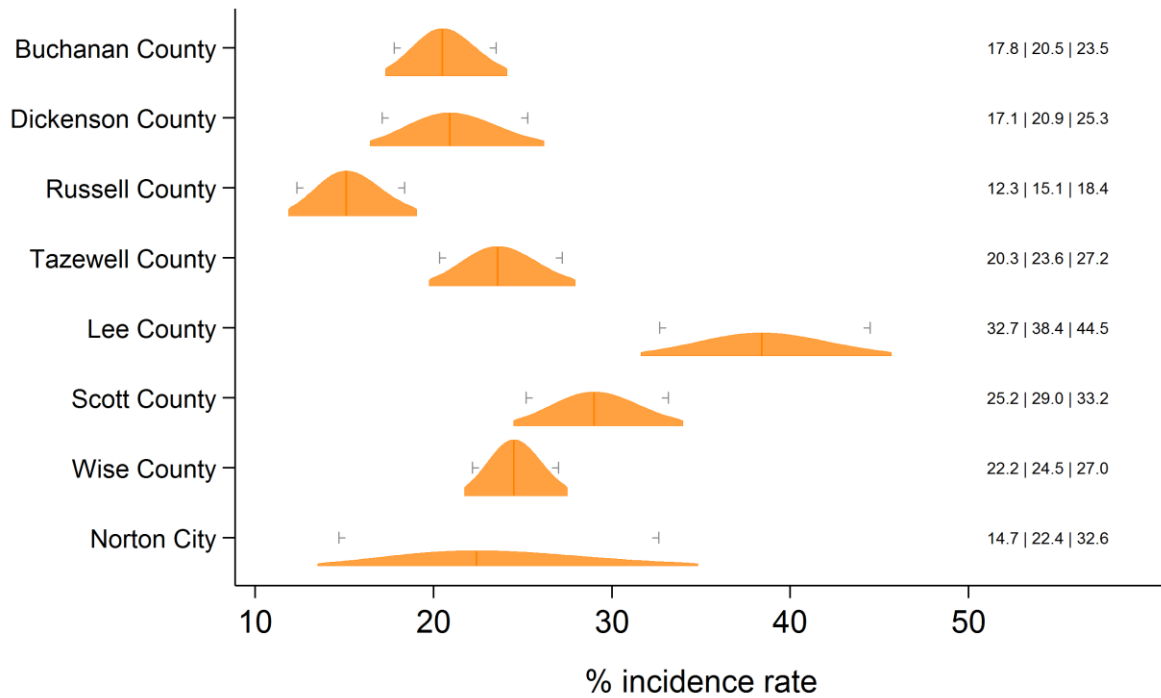
County	LCB	Point Estimate	UCB
Buchanan County	17.8	20.5	23.5
Dickenson County	17.1	20.9	25.3
Russell County	12.3	15.1	18.4
Tazewell County	20.3	23.6	27.2
Lee County	32.7	38.4	44.5
Scott County	25.2	29.0	33.2
Wise County	22.2	24.5	27.0
Norton City	14.7	22.4	32.6

% incidence rate

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

Could not afford doctor in the past 12 months
New River and Mount Rogers HDs

County/City	1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Bland County	12.5 | 14.7 | 17.2
Carroll County	10.5 | 12.9 | 15.8
Grayson County	5.9 | 8.7 | 12.6
Smyth County	14.7 | 16.8 | 19.2
Washington County	13.6 | 15.0 | 16.5
Wythe County	15.2 | 17.3 | 19.7
Bristol City	16.0 | 22.5 | 30.6
Galax City	3.6 | 8.1 | 17.0
Floyd County	10.4 | 11.5 | 12.7
Giles County	12.1 | 14.5 | 17.3
Montgomery County	8.4 | 10.2 | 12.3
Pulaski County	11.6 | 13.2 | 15.0
Radford City	15.6 | 22.2 | 30.6

% incidence rate

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

Could not afford doctor in the past 12 months Central Shenandoah and Lord Fairfax HDs

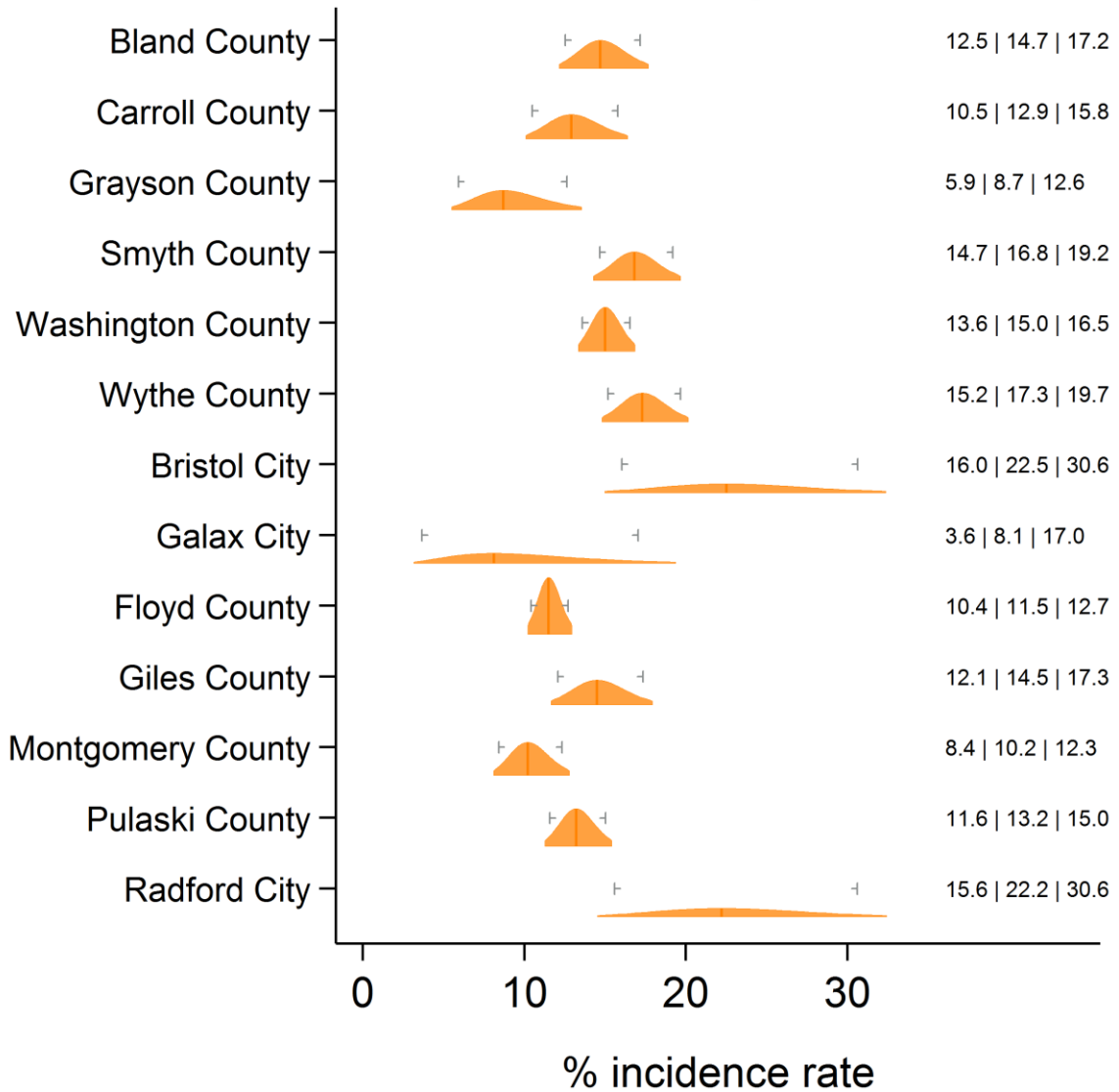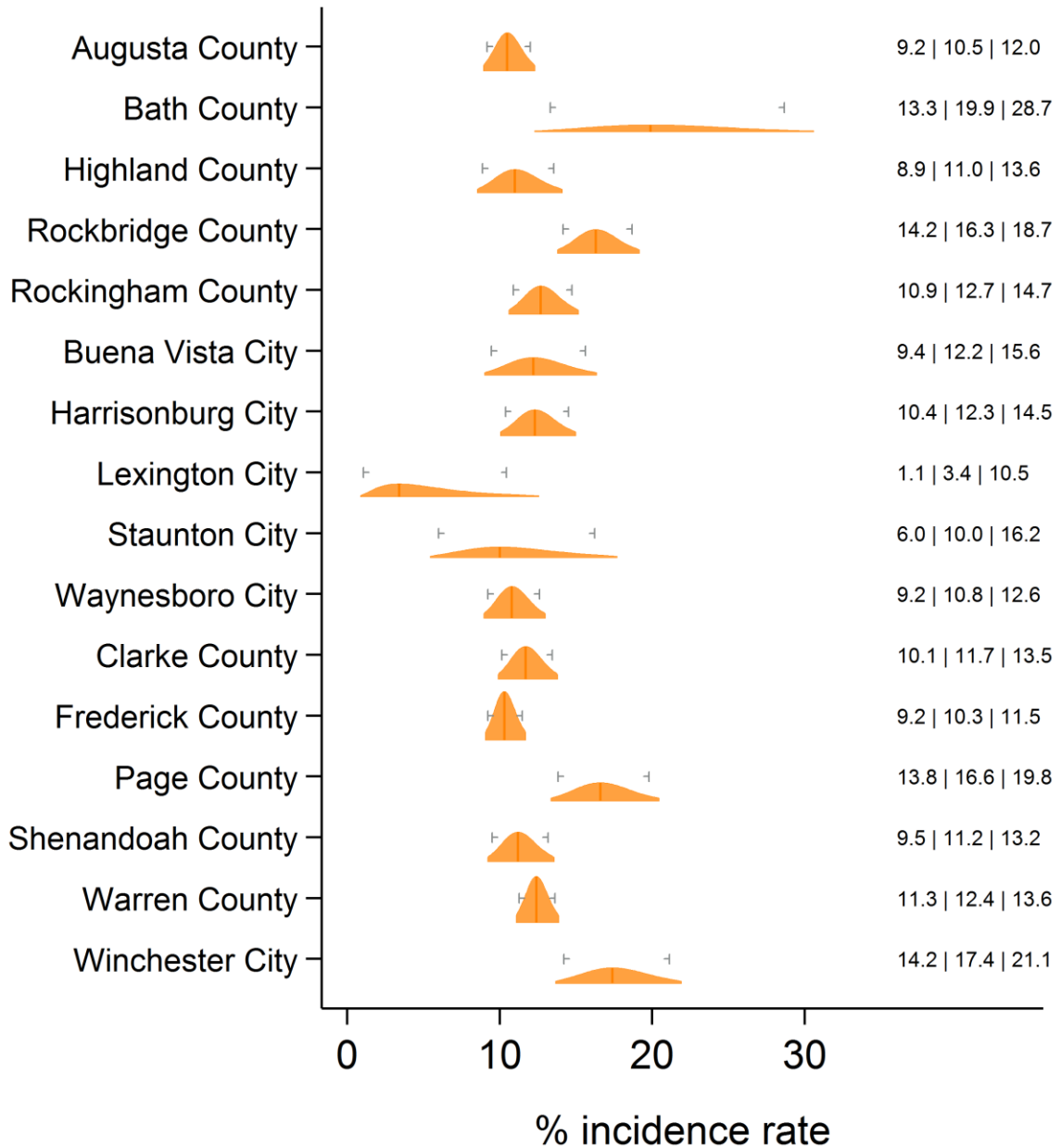| County	1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Augusta County	9.2 | 10.5 | 12.0
Bath County	13.3 | 19.9 | 28.7
Highland County	8.9 | 11.0 | 13.6
Rockbridge County	14.2 | 16.3 | 18.7
Rockingham County	10.9 | 12.7 | 14.7
Buena Vista City	9.4 | 12.2 | 15.6
Harrisonburg City	10.4 | 12.3 | 14.5
Lexington City	1.1 | 3.4 | 10.5
Staunton City	6.0 | 10.0 | 16.2
Waynesboro City	9.2 | 10.8 | 12.6
Clarke County	10.1 | 11.7 | 13.5
Frederick County	9.2 | 10.3 | 11.5
Page County	13.8 | 16.6 | 19.8
Shenandoah County	9.5 | 11.2 | 13.2
Warren County	11.3 | 12.4 | 13.6
Winchester City	14.2 | 17.4 | 21.1

% incidence rate

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

Could not afford doctor in the past 12 months Thomas Jefferson and Piedmont HDs

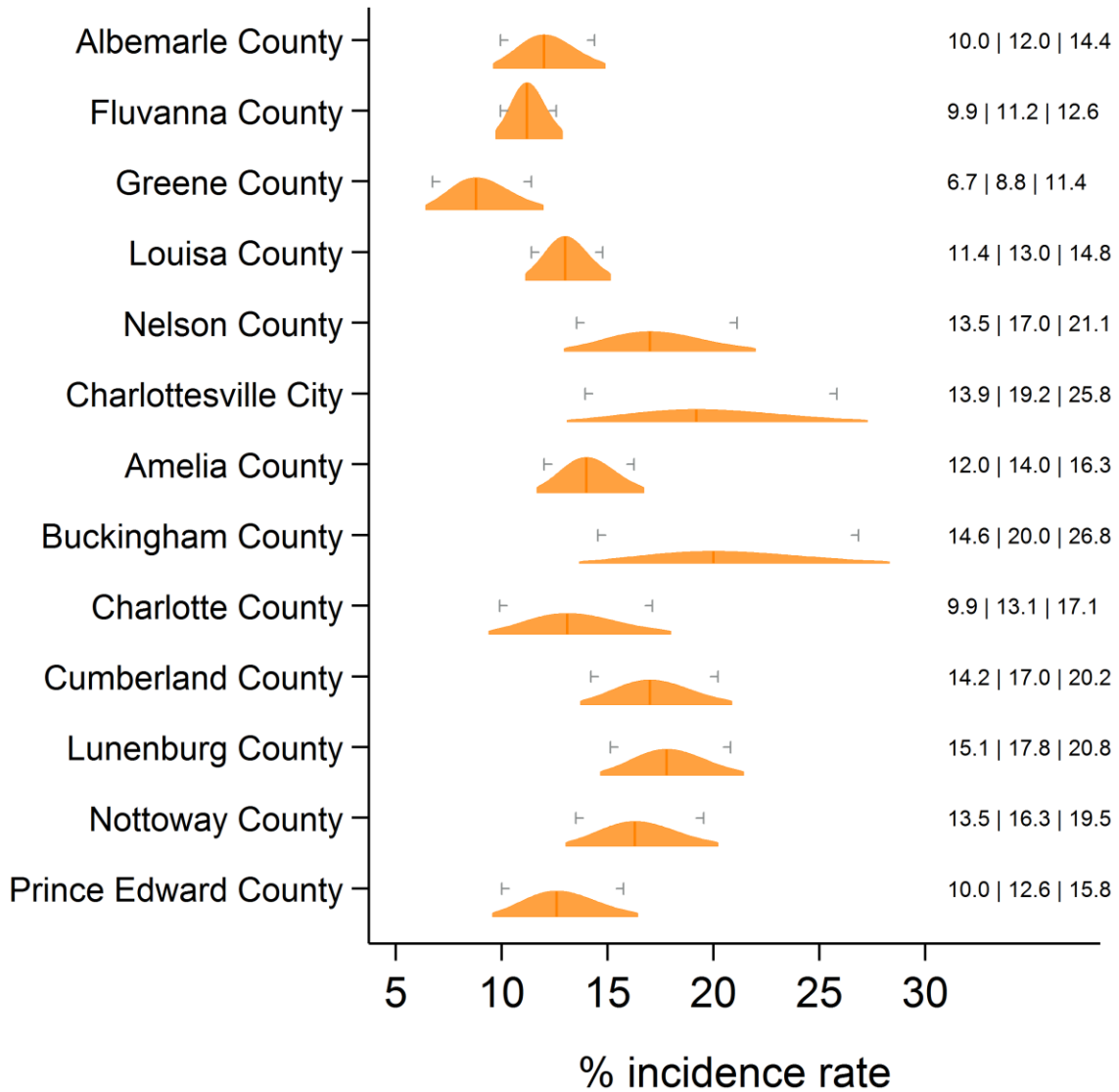| County	1-sided 95% LCB	Point Estimate	1-sided 95% UCB
Albemarle County	10.0	12.0	14.4
Fluvanna County	9.9	11.2	12.6
Greene County	6.7	8.8	11.4
Louisa County	11.4	13.0	14.8
Nelson County	13.5	17.0	21.1
Charlottesville City	13.9	19.2	25.8
Amelia County	12.0	14.0	16.3
Buckingham County	14.6	20.0	26.8
Charlotte County	9.9	13.1	17.1
Cumberland County	14.2	17.0	20.2
Lunenburg County	15.1	17.8	20.8
Nottoway County	13.5	16.3	19.5
Prince Edward County	10.0	12.6	15.8

% incidence rate

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

Could not afford doctor in the past 12 months
Rappahannock/Rapidan and Rappahannock HDs

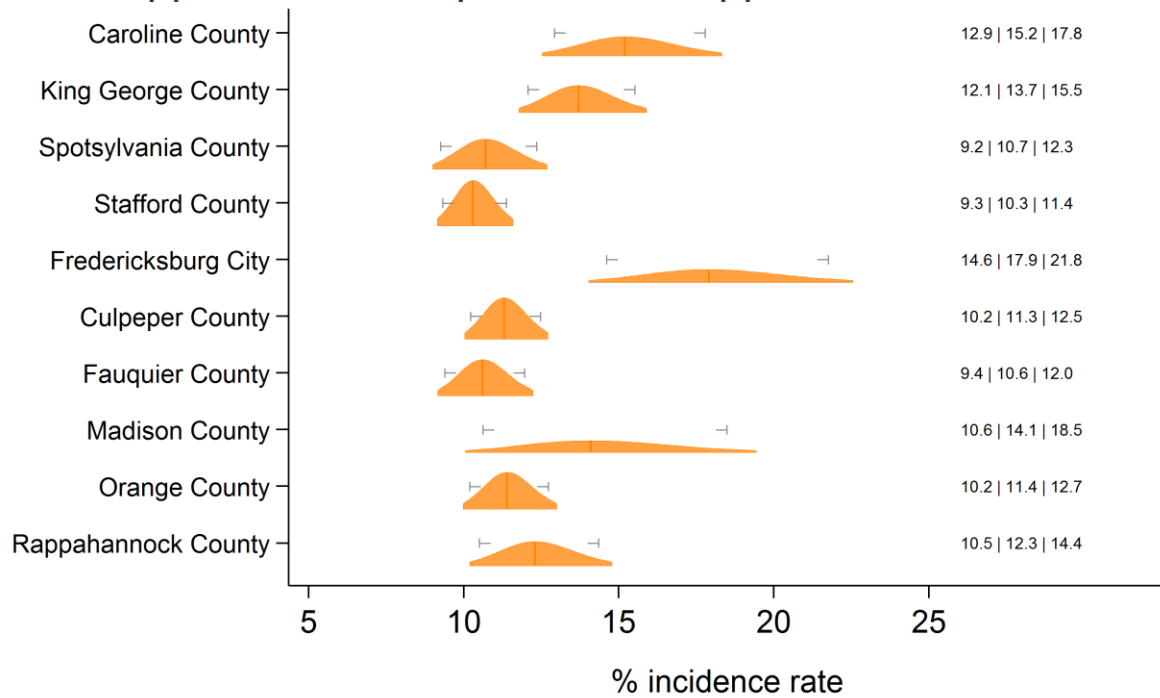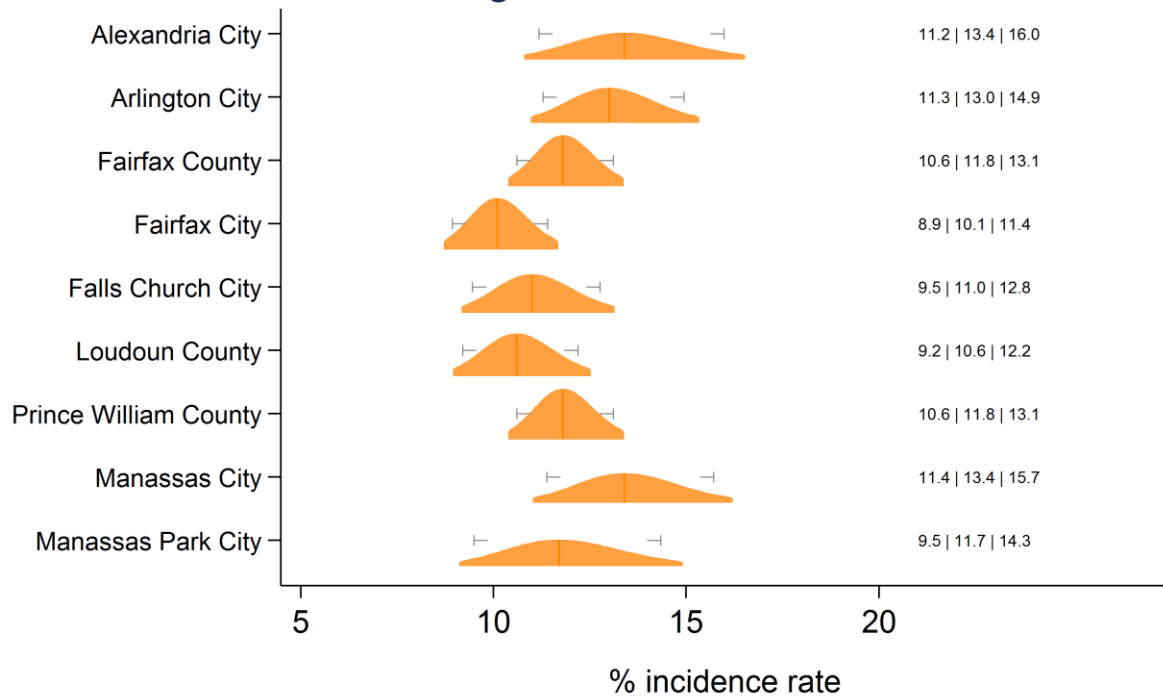| County	LCB | Point | UCB
Caroline County	12.9 | 15.2 | 17.8
King George County	12.1 | 13.7 | 15.5
Spotsylvania County	9.2 | 10.7 | 12.3
Stafford County	9.3 | 10.3 | 11.4
Fredericksburg City	14.6 | 17.9 | 21.8
Culpeper County	10.2 | 11.3 | 12.5
Fauquier County	9.4 | 10.6 | 12.0
Madison County	10.6 | 14.1 | 18.5
Orange County	10.2 | 11.4 | 12.7
Rappahannock County	10.5 | 12.3 | 14.4

% incidence rate

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

Could not afford doctor in the past 12 months
Alexandria, Fairfax, Arlington, Loudon, Prince William HDs

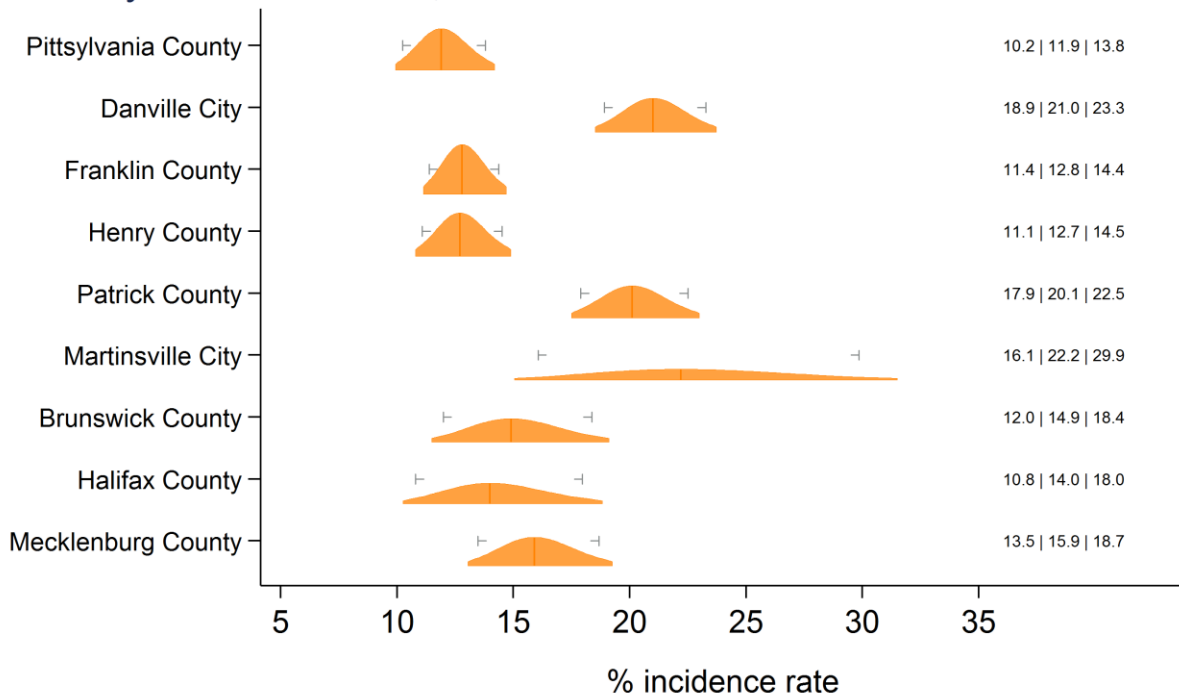| Health District	LCB | Point Estimate | UCB
Alexandria City	11.2 | 13.4 | 16.0
Arlington City	11.3 | 13.0 | 14.9
Fairfax County	10.6 | 11.8 | 13.1
Fairfax City	8.9 | 10.1 | 11.4
Falls Church City	9.5 | 11.0 | 12.8
Loudoun County	9.2 | 10.6 | 12.2
Prince William County	10.6 | 11.8 | 13.1
Manassas City	11.4 | 13.4 | 15.7
Manassas Park City	9.5 | 11.7 | 14.3

% incidence rate

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

Could not afford doctor in the past 12 months
Pittsylvania/Danville, Southside and West Piedmont HDs

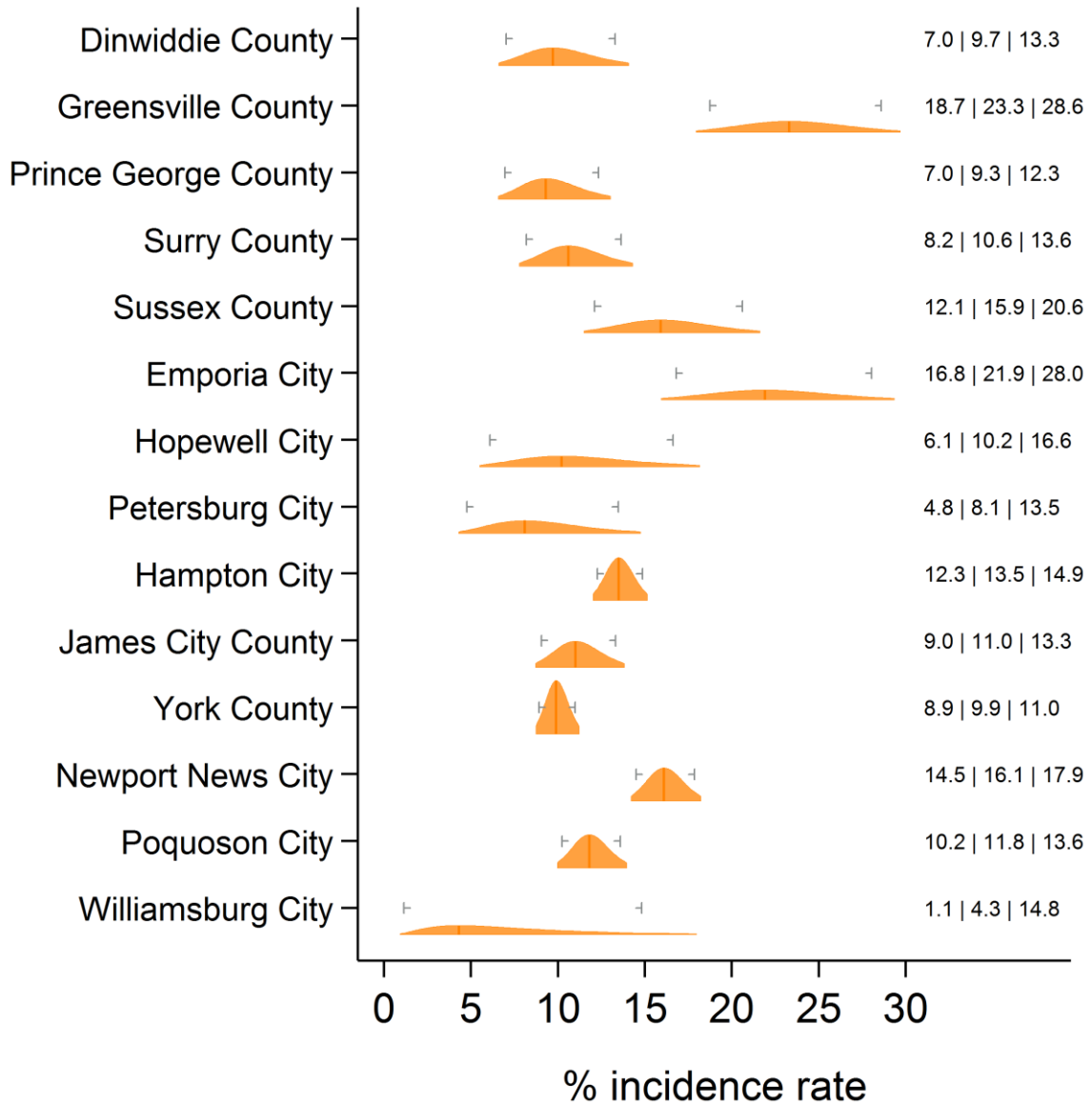| County	LCB | Point | UCB
Pittsylvania County	10.2 | 11.9 | 13.8
Danville City	18.9 | 21.0 | 23.3
Franklin County	11.4 | 12.8 | 14.4
Henry County	11.1 | 12.7 | 14.5
Patrick County	17.9 | 20.1 | 22.5
Martinsville City	16.1 | 22.2 | 29.9
Brunswick County	12.0 | 14.9 | 18.4
Halifax County	10.8 | 14.0 | 18.0
Mecklenburg County	13.5 | 15.9 | 18.7

% incidence rate

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

Could not afford doctor in the past 12 months
Crater, Peninsula and Hampton HDs

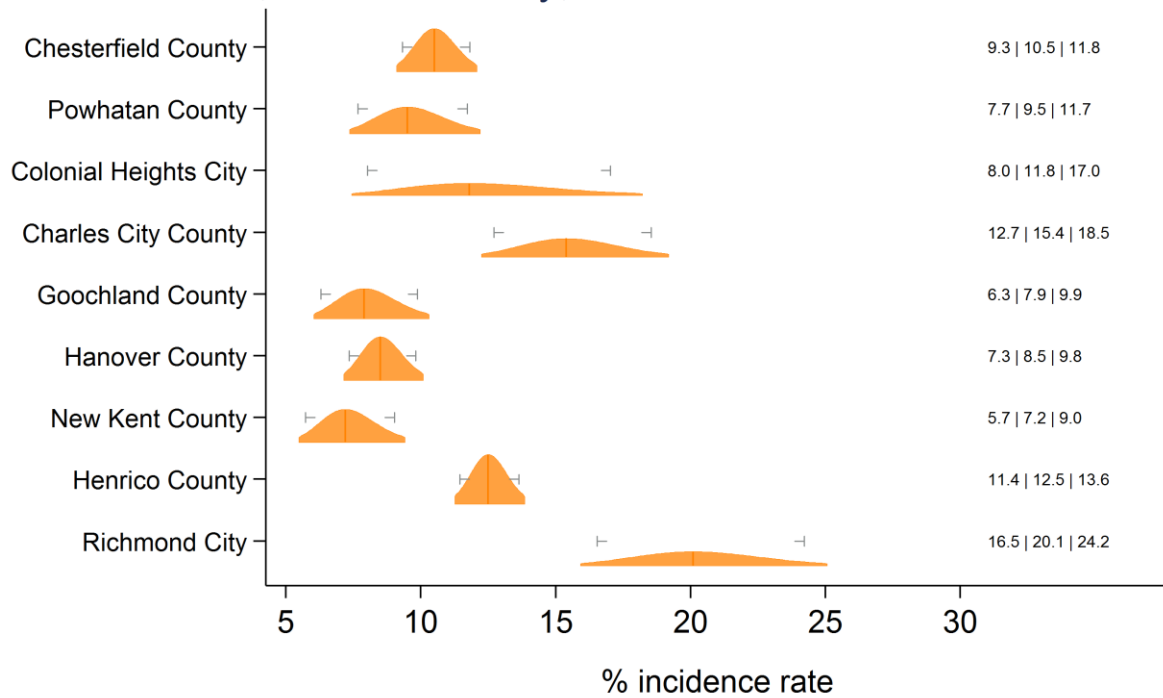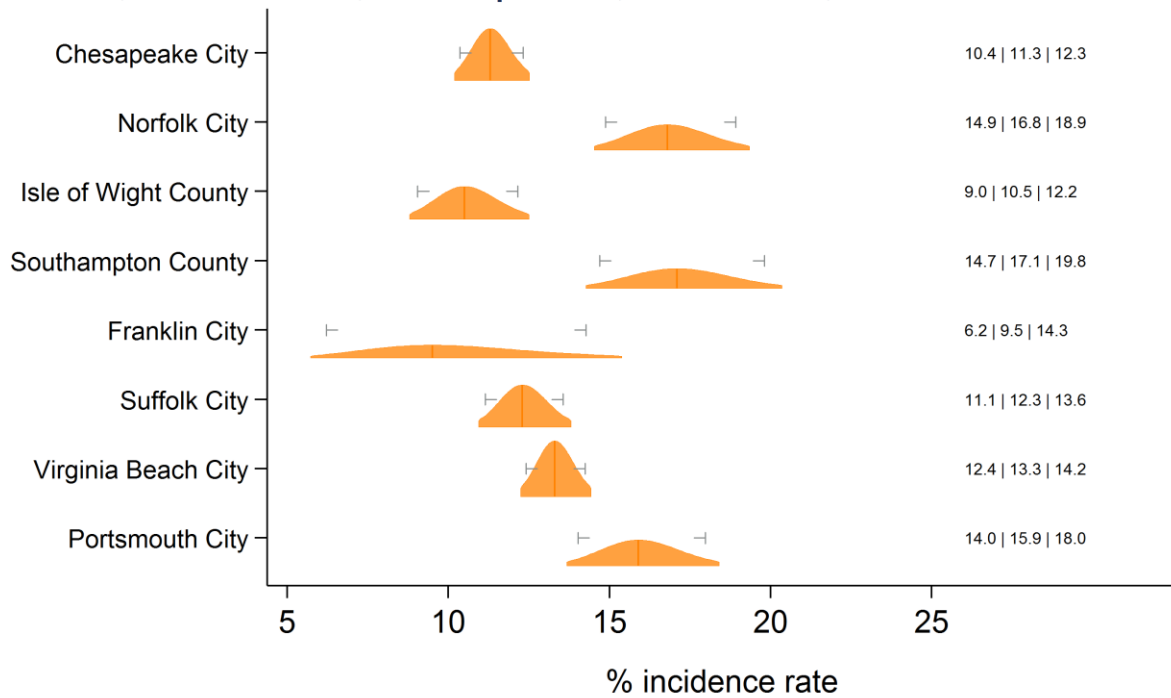|	
Dinwiddie County	7.0 | 9.7 | 13.3
Greensville County	18.7 | 23.3 | 28.6
Prince George County	7.0 | 9.3 | 12.3
Surry County	8.2 | 10.6 | 13.6
Sussex County	12.1 | 15.9 | 20.6
Emporia City	16.8 | 21.9 | 28.0
Hopewell City	6.1 | 10.2 | 16.6
Petersburg City	4.8 | 8.1 | 13.5
Hampton City	12.3 | 13.5 | 14.9
James City County	9.0 | 11.0 | 13.3
York County	8.9 | 9.9 | 11.0
Newport News City	14.5 | 16.1 | 17.9
Poquoson City	10.2 | 11.8 | 13.6
Williamsburg City	1.1 | 4.3 | 14.8

% incidence rate

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

Could not afford doctor in the past 12 months
Chesterfield, Chickahominy, Henrico and Richmond HDs

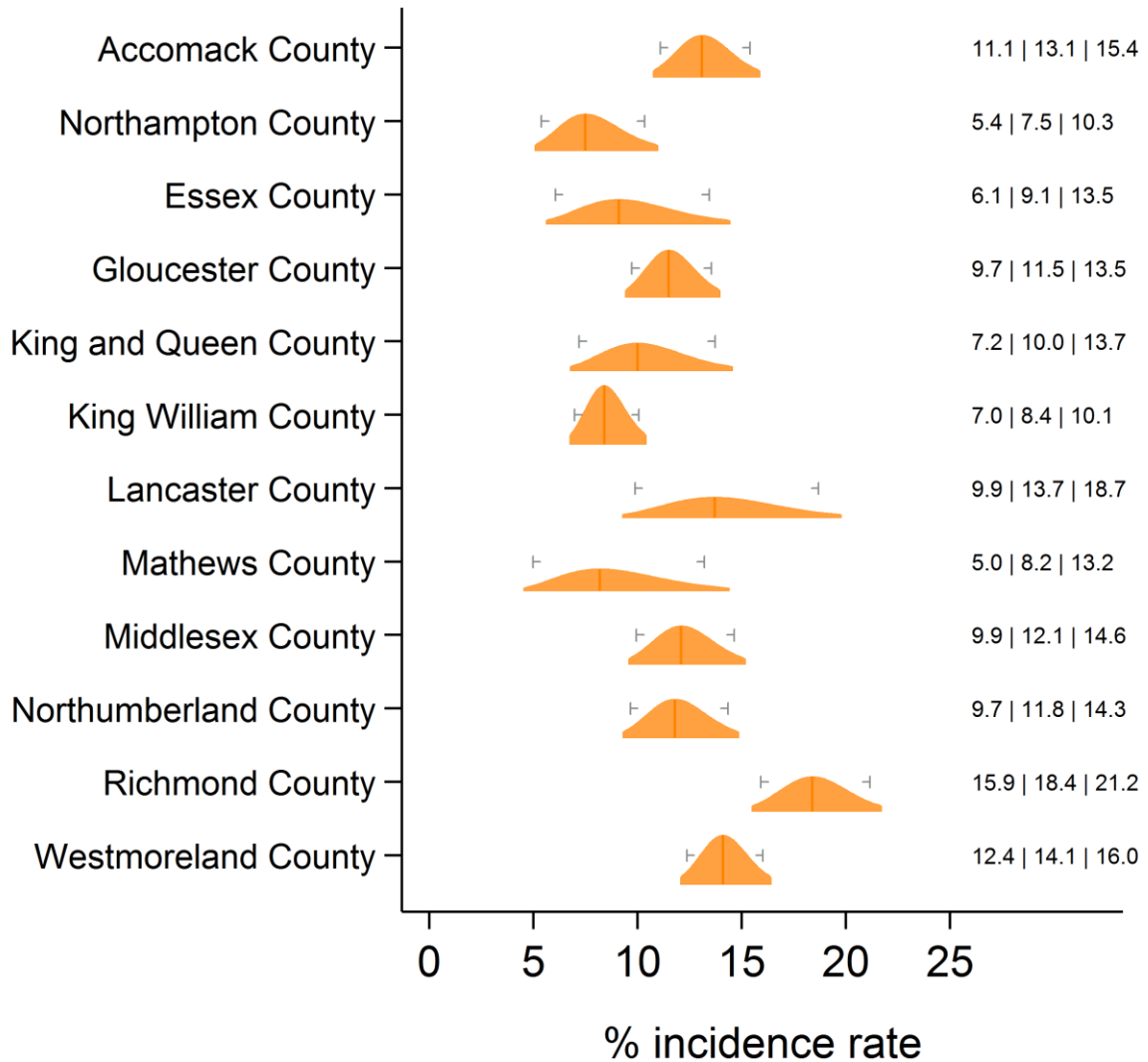| County	LCB | Point | UCB
Chesterfield County	9.3 | 10.5 | 11.8
Powhatan County	7.7 | 9.5 | 11.7
Colonial Heights City	8.0 | 11.8 | 17.0
Charles City County	12.7 | 15.4 | 18.5
Goochland County	6.3 | 7.9 | 9.9
Hanover County	7.3 | 8.5 | 9.8
New Kent County	5.7 | 7.2 | 9.0
Henrico County	11.4 | 12.5 | 13.6
Richmond City	16.5 | 20.1 | 24.2

% incidence rate

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

Could not afford doctor in the past 12 months
Norfolk,Portsmouth,Chesapeake,VA Beach,W. Tidewater HDs

Location	LCB | Point | UCB
Chesapeake City	10.4 | 11.3 | 12.3
Norfolk City	14.9 | 16.8 | 18.9
Isle of Wight County	9.0 | 10.5 | 12.2
Southampton County	14.7 | 17.1 | 19.8
Franklin City	6.2 | 9.5 | 14.3
Suffolk City	11.1 | 12.3 | 13.6
Virginia Beach City	12.4 | 13.3 | 14.2
Portsmouth City	14.0 | 15.9 | 18.0

% incidence rate

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

Could not afford doctor in the past 12 months Eastern Shore and Three Rivers HDs

County	LCB | Point | UCB
Accomack County	11.1 | 13.1 | 15.4
Northampton County	5.4 | 7.5 | 10.3
Essex County	6.1 | 9.1 | 13.5
Gloucester County	9.7 | 11.5 | 13.5
King and Queen County	7.2 | 10.0 | 13.7
King William County	7.0 | 8.4 | 10.1
Lancaster County	9.9 | 13.7 | 18.7
Mathews County	5.0 | 8.2 | 13.2
Middlesex County	9.9 | 12.1 | 14.6
Northumberland County	9.7 | 11.8 | 14.3
Richmond County	15.9 | 18.4 | 21.2
Westmoreland County	12.4 | 14.1 | 16.0

% 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: 50 areas.

Direct estimate is outside the 95% SAE Wilson CI: 83 areas.

SAE estimate is inside the 95% direct Wilson CI: 127 areas.

SAE estimate is outside the 95% direct Wilson CI: 6 areas.

SAE Wilson 95% CI is fully inside the 95% direct Wilson CI: 122 areas.

SAE Wilson 95% CI partially overlaps with the 95% direct Wilson CI: 11 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: 121 areas.

SAE standard error is greater that the (nonzero) direct standard error: 0 areas.

Direct standard error is zero: 12 areas.

Proportion of SAE variance due to ACS sampling error: min = 0.06%; med = 3.95%; max = 15.47%.

Proportion of SAE variance to sampling error in regression coefficient estimates: min = 77.98%; med = 93.00%; max = 98.86%.

Proportion of SAE variance due to model selection: min = 0.21%; med = 2.20%; max = 21.96%.