

Outcome 13: Poor physical or mental health prevent from doing usual activities

Internal variable name: outc13_poorhlthdays

Definition: During the past 30 days, for about how many days did poor physical or mental health keep you from doing your usual activities, such as self-care, work, or recreation?

Predictive models

	Mixed, demos only	Logit, no area effects	Mixed with area covariates
	b/se	b/se	b/se
Outcome 13: Poor physical or mental health prevent from doing usual activities			
NH White	0.0000 (.)	0.0000 (.)	0.0000 (.)
NH Black vs. NH White	-0.0027 (0.0853)	-0.0258 (0.1132)	-0.0258 (0.0855)
NH Asian vs. NH White	-0.6699* (0.3008)	-0.5546* (0.2736)	-0.5546 (0.2914)
NH Other vs. NH White	0.4048** (0.1351)	0.4231* (0.1792)	0.4231** (0.1338)
Hispanic vs. NH White	0.1466 (0.1761)	0.1915 (0.1787)	0.1915 (0.1743)
SEX OF RESPONDENT=1	0.0000 (.)	0.0000 (.)	0.0000 (.)
Female	0.0630 (0.1067)	0.0549 (0.0861)	0.0549 (0.1082)
Age 18-34 vs. 65+	0.3033* (0.1294)	0.3146** (0.1131)	0.3146* (0.1272)
Age 35-44 vs. 65+	-0.0358 (0.1397)	-0.0198 (0.1289)	-0.0198 (0.1382)
Age 45-54 vs. 65+	0.2045 (0.1317)	0.2338 (0.1272)	0.2338 (0.1325)
Age 55-64 vs. 65+	0.1202 (0.1127)	0.1231 (0.1179)	0.1231 (0.1140)
65+	0.0000 (.)	0.0000 (.)	0.0000 (.)
Heart_Disease hospitalization rate per 1K		0.0243* (0.0095)	0.0243*** (0.0057)
Log(Other female sites		-0.1041	-0.1041

Female Rate + 1)			
		(0.0755)	(0.0535)
_cons	-0.4713***	-0.7219***	-0.7219***
	(0.1055)	(0.1665)	(0.1361)
Area effect variance			
var(_cons[FIPS_county])	0.0000		0.0000
	(0.0151)		(0.0000)

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

Results by health districts

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE CI
Augusta County	51015	50.4%	(35.0%, 65.7%)	41.1%	(38.0%, 44.3%)
Bath County	51017	65.0%	(17.5%, 94.2%)	48.9%	(44.9%, 53.0%)
Caroline County	51033	48.6%	(19.7%, 78.5%)	44.5%	(41.9%, 47.1%)
Clarke County	51043	20.5%	(2.6%, 71.4%)	44.2%	(41.3%, 47.1%)
Culpeper County	51047	39.8%	(15.4%, 70.5%)	43.4%	(40.8%, 46.0%)
Fauquier County	51061	49.6%	(28.7%, 70.7%)	40.1%	(37.2%, 43.0%)
Frederick County	51069	41.5%	(21.8%, 64.3%)	43.5%	(40.8%, 46.2%)
Highland County	51091	30.0%	(3.1%, 89.1%)	45.8%	(42.4%, 49.3%)
King George County	51099	21.6%	(7.5%, 48.4%)	37.2%	(32.3%, 42.4%)
Madison County	51113	18.0%	(3.6%, 56.5%)	44.2%	(41.4%, 47.0%)
Orange County	51137	40.5%	(14.9%, 72.5%)	45.3%	(42.4%, 48.1%)
Page County	51139	51.6%	(17.8%, 84.0%)	46.6%	(43.2%, 50.1%)
Rappahannock County	51157	52.5%	(17.1%, 85.6%)	38.0%	(32.2%, 44.2%)
Rockbridge County	51163	37.0%	(16.0%, 64.5%)	45.2%	(42.4%, 48.0%)
Rockingham County	51165	46.0%	(24.9%, 68.7%)	45.6%	(42.8%, 48.4%)
Shenandoah County	51171	35.9%	(17.1%, 60.5%)	45.3%	(42.2%, 48.4%)
Spotsylvania County	51177	28.5%	(16.8%, 44.1%)	39.8%	(37.0%, 42.7%)
Stafford County	51179	33.8%	(21.3%, 49.0%)	38.1%	(34.9%, 41.4%)
Warren County	51187	47.4%	(22.5%, 73.7%)	44.8%	(41.9%, 47.8%)
Buena Vista City	51530	43.1%	(3.0%, 94.9%)	46.7%	(43.5%, 49.9%)
Fredericksburg City	51630	69.8%	(37.9%, 89.8%)	42.9%	(40.3%, 45.6%)
Harrisonburg City	51660	46.0%	(15.4%, 80.0%)	41.8%	(38.6%, 45.0%)
Lexington City	51678	.%	(.%, .%)	43.9%	(40.0%, 47.9%)
Staunton City	51790	27.3%	(4.3%, 75.9%)	46.4%	(42.4%, 50.5%)
Waynesboro	51820	45.4%	(5.9%, 91.7%)	41.5%	(35.5%, 47.6%)

City					
Winchester City	51840	43.0%	(7.8%, 87.0%)	39.5%	(34.9%, 44.3%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE CI
Albemarle County	51003	35.1%	(21.6%, 51.5%)	39.2%	(37.2%, 41.3%)
Alleghany County	51005	67.8%	(44.6%, 84.6%)	49.5%	(45.3%, 53.7%)
Amherst County	51009	34.7%	(15.6%, 60.3%)	45.0%	(42.1%, 47.9%)
Appomattox County	51011	50.5%	(26.3%, 74.5%)	45.6%	(42.6%, 48.6%)
Arlington City	51013	35.5%	(24.4%, 48.3%)	34.3%	(31.6%, 37.1%)
Bedford County	51019	39.4%	(23.4%, 58.0%)	39.1%	(35.0%, 43.2%)
Botetourt County	51023	50.7%	(23.7%, 77.2%)	43.4%	(40.9%, 46.0%)
Campbell County	51031	23.6%	(12.5%, 39.9%)	41.3%	(38.3%, 44.3%)
Craig County	51045	19.2%	(1.8%, 75.9%)	44.5%	(41.5%, 47.6%)
Fairfax County	51059	38.5%	(32.1%, 45.3%)	36.1%	(33.7%, 38.7%)
Fluvanna County	51065	65.8%	(14.2%, 95.7%)	42.2%	(39.5%, 45.0%)
Greene County	51079	61.2%	(19.5%, 91.1%)	43.3%	(40.8%, 45.8%)
Loudoun County	51107	32.5%	(23.4%, 43.1%)	36.7%	(34.0%, 39.5%)
Louisa County	51109	73.4%	(42.1%, 91.3%)	43.3%	(40.3%, 46.3%)
Nelson County	51125	78.3%	(26.0%, 97.4%)	45.4%	(42.3%, 48.5%)
Prince William County	51153	37.9%	(29.2%, 47.4%)	38.5%	(36.3%, 40.8%)
Roanoke County	51161	53.4%	(38.4%, 67.8%)	43.3%	(40.9%, 45.8%)
Alexandria City	51510	50.3%	(33.5%, 67.0%)	39.6%	(36.7%, 42.6%)
Charlottesville City	51540	52.6%	(22.7%, 80.7%)	40.4%	(37.7%, 43.1%)
Covington City	51580	100.0%	(9.7%, 100.0%)	52.4%	(42.2%, 62.5%)
Fairfax City	51600	43.2%	(22.0%, 67.2%)	39.9%	(37.1%, 42.7%)
Falls Church City	51610	68.6%	(15.7%, 94.9%)	36.8%	(33.6%, 40.1%)
Lynchburg City	51680	25.4%	(12.2%, 45.5%)	44.3%	(41.7%, 47.0%)
Manassas City	51683	48.5%	(18.2%, 80.0%)	41.1%	(37.4%, 44.9%)
Manassas Park City	51685	66.5%	(14.6%, 95.2%)	39.5%	(35.4%, 43.7%)
Salem City	51775	54.1%	(16.7%, 87.4%)	44.8%	(41.9%, 47.8%)

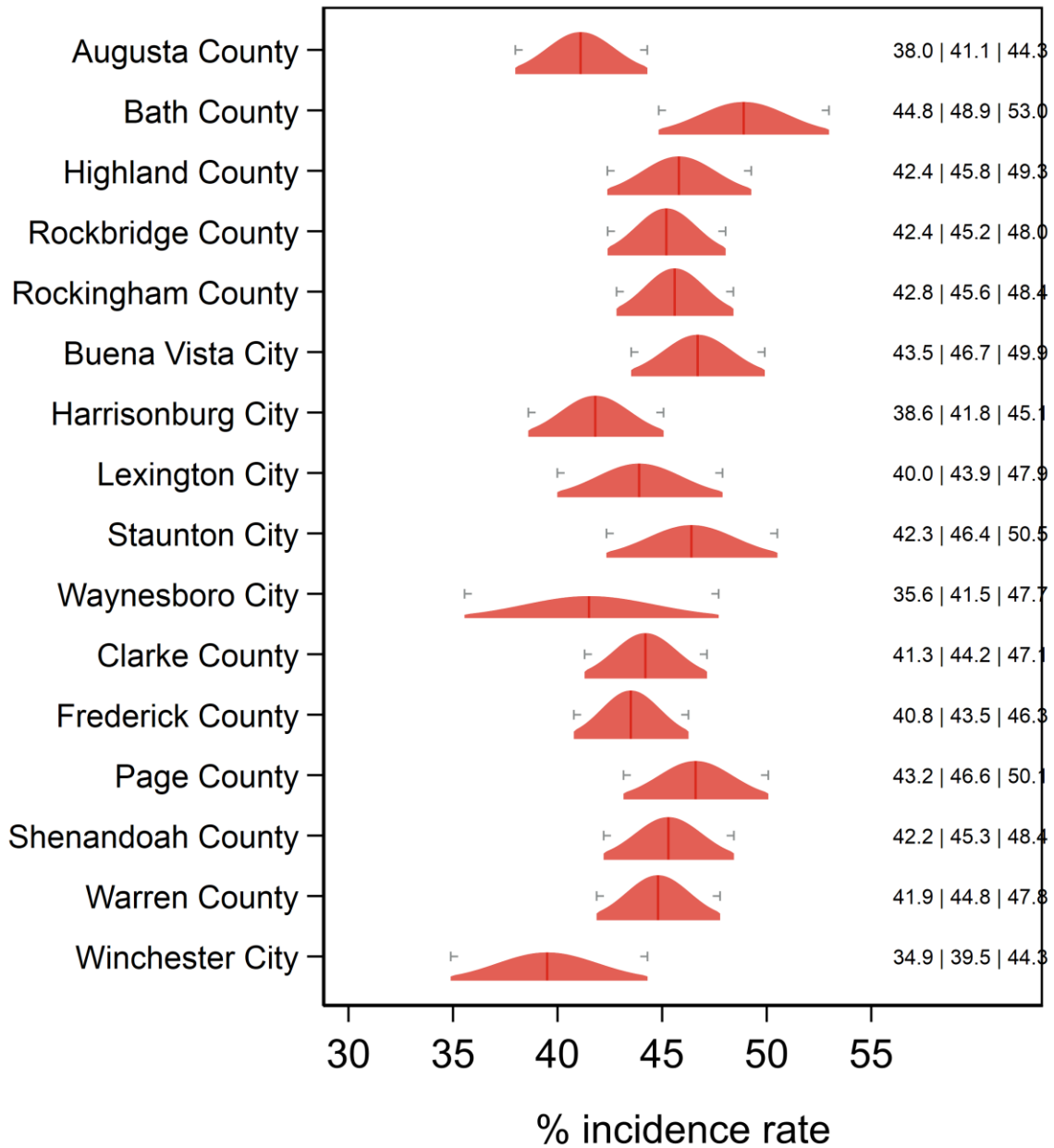
County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE CI
Bland County	51021	31.5%	(4.7%, 81.1%)	43.6%	(40.9%, 46.3%)
Buchanan County	51027	62.6%	(35.4%, 83.6%)	42.5%	(39.2%, 45.8%)
Carroll County	51035	50.6%	(19.3%, 81.4%)	39.7%	(36.8%, 42.8%)
Dickenson County	51051	40.2%	(13.7%, 73.9%)	40.1%	(36.2%, 44.1%)
Floyd County	51063	52.5%	(21.7%, 81.5%)	43.9%	(41.4%, 46.4%)
Franklin County	51067	17.5%	(8.4%, 43.1%)	44.0%	(41.3%, 46.6%)
Giles County	51071	29.5%	(8.4%, 68.3%)	49.7%	(45.7%, 53.6%)
Grayson County	51077	34.7%	(11.6%, 68.4%)	40.0%	(36.9%, 43.3%)
Henry County	51089	36.8%	(23.1%, 53.1%)	43.3%	(40.6%, 46.1%)
Lee County	51105	17.8%	(5.8%, 42.9%)	41.2%	(38.0%, 44.4%)
Montgomery County	51121	36.6%	(22.8%, 53.0%)	41.1%	(38.4%, 43.9%)
Patrick County	51141	48.9%	(17.6%, 81.0%)	39.5%	(36.3%, 42.7%)
Pittsylvania County	51143	43.1%	(27.6%, 60.2%)	43.2%	(40.5%, 45.9%)
Pulaski County	51155	63.2%	(36.9%, 83.4%)	50.2%	(45.9%, 54.6%)
Russell County	51167	51.3%	(25.9%, 76.0%)	42.0%	(39.3%, 44.7%)
Scott County	51169	35.2%	(17.1%, 58.9%)	36.1%	(30.9%, 41.7%)
Smyth County	51173	38.2%	(17.8%, 63.8%)	41.5%	(38.9%, 44.2%)
Tazewell County	51185	55.6%	(36.6%, 73.0%)	43.9%	(40.6%, 47.2%)
Washington County	51191	28.2%	(14.5%, 47.6%)	40.2%	(37.4%, 43.1%)
Wise County	51195	41.8%	(26.3%, 59.1%)	43.1%	(40.2%, 46.0%)
Wythe County	51197	66.9%	(42.5%, 84.6%)	46.3%	(43.2%, 49.4%)
Bristol City	51520	100.0%	(9.4%, 100.0%)	35.8%	(30.6%, 41.3%)
Danville City	51590	51.2%	(18.0%, 83.4%)	46.8%	(43.3%, 50.3%)
Galax City	51640	35.3%	(1.3%, 96.4%)	46.7%	(43.4%, 49.9%)
Martinsville City	51690	52.8%	(14.7%, 87.9%)	48.2%	(44.6%, 51.9%)
Norton City	51720	86.3%	(1.9%, 99.8%)	45.1%	(42.2%, 48.0%)
Radford City	51750	34.6%	(12.4%, 66.3%)	42.0%	(39.2%, 44.8%)
Roanoke City	51770	40.7%	(25.4%, 58.0%)	45.1%	(42.1%, 48.2%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE CI
Amelia County	51007	40.2%	(10.7%, 79.1%)	44.6%	(41.8%, 47.4%)
Brunswick County	51025	60.7%	(25.9%, 87.2%)	48.4%	(44.6%, 52.2%)
Buckingham County	51029	69.1%	(34.2%, 90.5%)	43.9%	(41.0%, 46.7%)
Charles City County	51036	81.0%	(2.6%, 99.6%)	44.5%	(41.6%, 47.4%)
Charlotte County	51037	28.9%	(9.1%, 62.4%)	47.5%	(43.9%, 51.2%)
Chesterfield County	51041	44.0%	(34.4%, 54.1%)	38.9%	(36.0%, 41.8%)
Cumberland County	51049	70.5%	(26.1%, 94.2%)	44.1%	(41.4%, 46.9%)
Dinwiddie County	51053	59.0%	(29.5%, 83.2%)	46.4%	(43.1%, 49.7%)
Goochland County	51075	36.4%	(6.6%, 82.2%)	42.4%	(39.9%, 44.9%)
Greensville County	51081	53.7%	(12.2%, 90.6%)	51.2%	(46.1%, 56.2%)
Halifax County	51083	40.2%	(21.8%, 61.9%)	47.0%	(43.5%, 50.6%)
Hanover County	51085	31.0%	(14.5%, 54.3%)	38.4%	(34.7%, 42.2%)
Henrico County	51087	40.4%	(29.2%, 52.7%)	38.6%	(35.7%, 41.6%)
Lunenburg County	51111	29.3%	(11.5%, 56.9%)	46.8%	(43.6%, 50.1%)
Mecklenburg County	51117	54.6%	(34.0%, 73.7%)	50.4%	(45.8%, 55.0%)
New Kent County	51127	68.8%	(36.9%, 89.3%)	42.2%	(39.6%, 44.9%)
Nottoway County	51135	37.8%	(12.7%, 71.8%)	47.1%	(43.8%, 50.5%)
Powhatan County	51145	51.6%	(14.6%, 87.0%)	42.2%	(39.5%, 45.0%)
Prince Edward County	51147	39.6%	(12.9%, 74.4%)	44.6%	(41.7%, 47.5%)
Prince George County	51149	55.6%	(31.3%, 77.6%)	43.0%	(40.3%, 45.8%)
Surry County	51181	24.3%	(2.1%, 87.8%)	45.1%	(42.2%, 48.1%)
Sussex County	51183	26.0%	(5.5%, 67.9%)	48.8%	(44.8%, 52.9%)
Colonial Heights City	51570	51.4%	(20.5%, 81.3%)	49.5%	(45.3%, 53.8%)
Emporia City	51595	100.0%	(19.2%, 100.0%)	59.8%	(50.1%, 68.7%)
Hopewell City	51670	50.9%	(19.3%, 81.8%)	49.7%	(45.2%, 54.2%)

Petersburg City	51730	54.2%	(23.4%, 82.2%)	51.4%	(46.3%, 56.4%)
Richmond City	51760	49.7%	(36.1%, 63.5%)	41.8%	(39.3%, 44.3%)

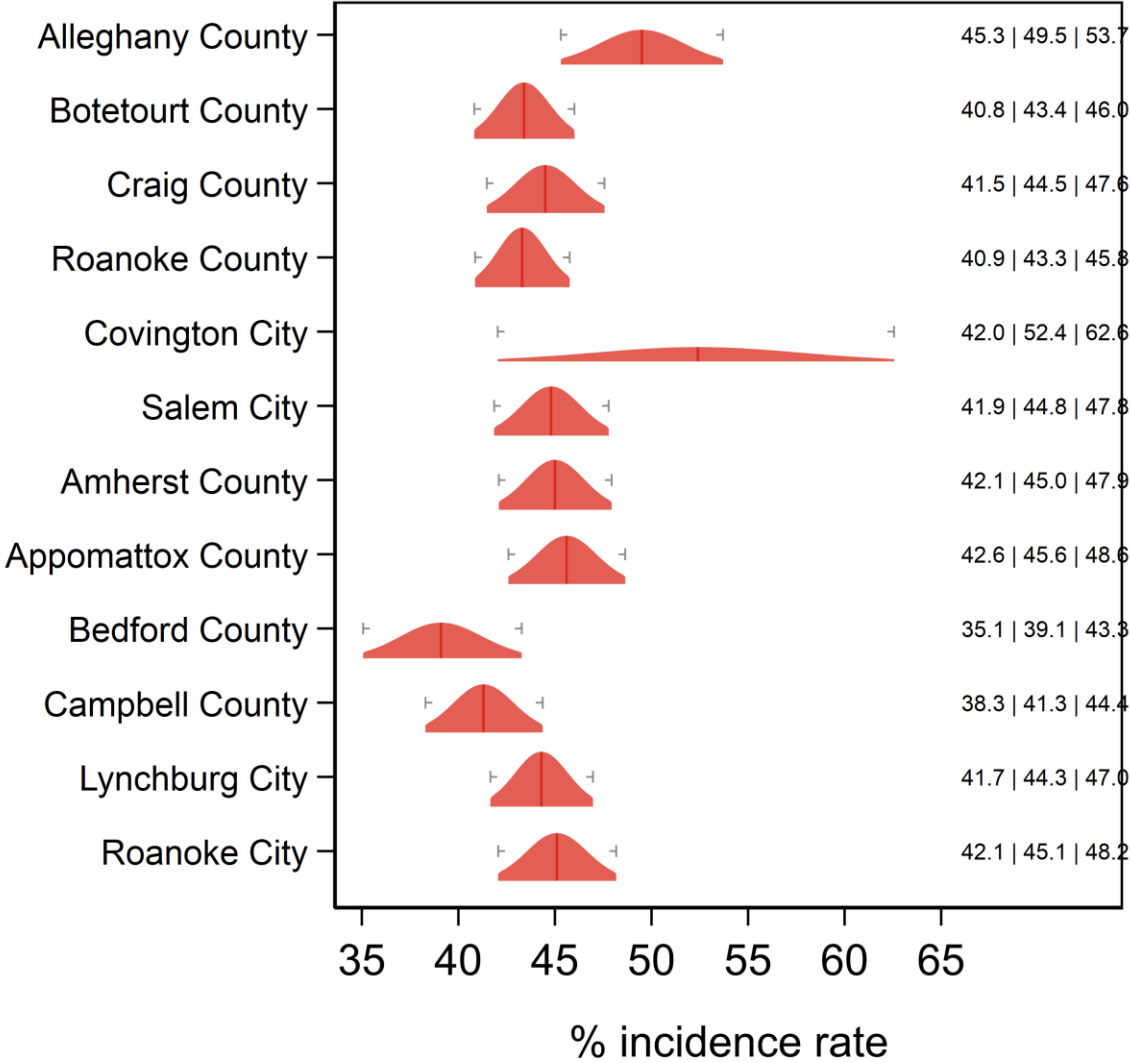
County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE CI
Accomack County	51001	40.2%	(22.2%, 61.3%)	41.6%	(38.9%, 44.4%)
Essex County	51057	63.6%	(30.6%, 87.3%)	47.2%	(43.1%, 51.4%)
Gloucester County	51073	57.9%	(32.8%, 79.5%)	40.6%	(36.5%, 44.8%)
Isle of Wight County	51093	54.5%	(26.6%, 79.9%)	44.5%	(41.8%, 47.3%)
James City County	51095	36.8%	(23.1%, 53.1%)	43.7%	(40.8%, 46.6%)
King and Queen County	51097	40.9%	(4.7%, 90.6%)	39.9%	(32.1%, 48.2%)
King William County	51101	35.5%	(8.3%, 77.0%)	44.4%	(41.8%, 47.1%)
Lancaster County	51103	35.3%	(10.5%, 71.8%)	40.3%	(35.1%, 45.7%)
Mathews County	51115	54.1%	(23.9%, 81.6%)	48.1%	(44.2%, 52.0%)
Middlesex County	51119	17.1%	(4.6%, 66.4%)	45.1%	(42.0%, 48.3%)
Northampton County	51131	54.1%	(29.7%, 76.6%)	46.5%	(43.2%, 49.9%)
Northumberland County	51133	61.5%	(22.3%, 89.8%)	45.6%	(42.3%, 48.8%)
Richmond County	51159	59.7%	(33.9%, 81.0%)	45.2%	(41.7%, 48.7%)
Southampton County	51175	51.1%	(24.3%, 77.3%)	46.6%	(43.4%, 49.9%)
Westmoreland County	51193	38.6%	(18.5%, 63.5%)	45.7%	(42.4%, 49.0%)
York County	51199	41.8%	(22.4%, 64.2%)	41.8%	(39.4%, 44.3%)
Chesapeake City	51550	45.3%	(34.3%, 56.9%)	43.1%	(40.7%, 45.5%)
Franklin City	51620	0.0%	(0.0%, 92.1%)	51.1%	(46.1%, 56.2%)
Hampton City	51650	52.0%	(39.1%, 64.7%)	43.3%	(40.4%, 46.2%)
Newport News City	51700	41.8%	(29.7%, 55.0%)	43.1%	(40.6%, 45.8%)
Norfolk City	51710	41.1%	(30.8%, 52.3%)	43.3%	(40.9%, 45.8%)
Poquoson City	51735	26.5%	(0.8%, 96.7%)	42.9%	(40.3%, 45.4%)
Portsmouth City	51740	45.3%	(31.2%, 60.2%)	41.0%	(37.1%, 45.0%)
Suffolk City	51800	50.0%	(29.3%, 70.7%)	44.1%	(41.5%, 46.9%)
Virginia Beach City	51810	46.1%	(37.0%, 55.4%)	39.3%	(37.3%, 41.4%)
Williamsburg City	51830	78.7%	(25.7%, 97.5%)	39.9%	(36.3%, 43.5%)

Poor health prevents activities Central Shenandoah and Lord Fairfax HDs



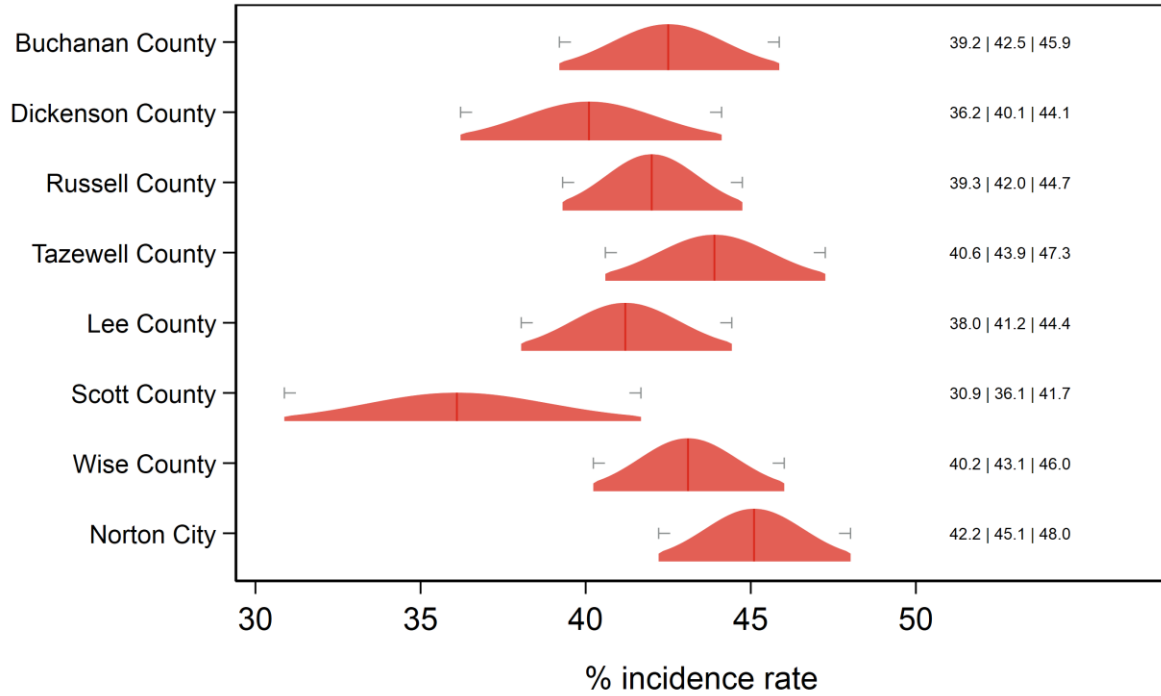
Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
Gray markers: 95% confidence interval

Poor health prevents activities Alleghany, Roanoke and Central Virginia HDs



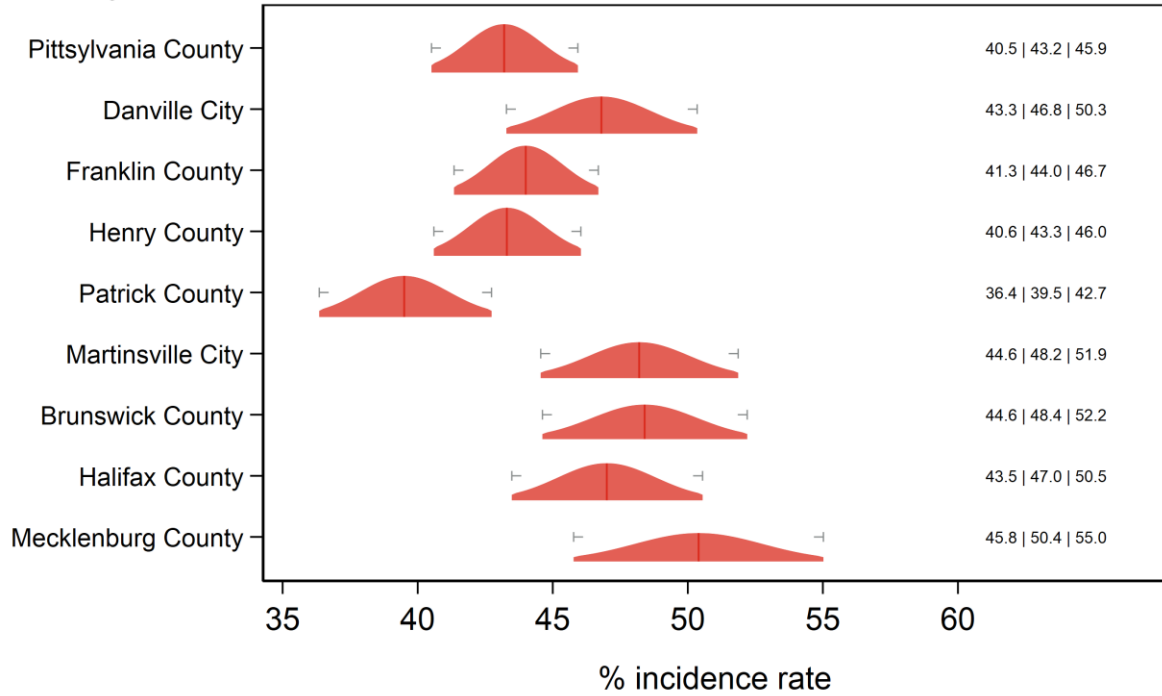
Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
 Gray markers: 95% confidence interval

Poor health prevents activities Cumberland Plateau and Lenowisco HDs



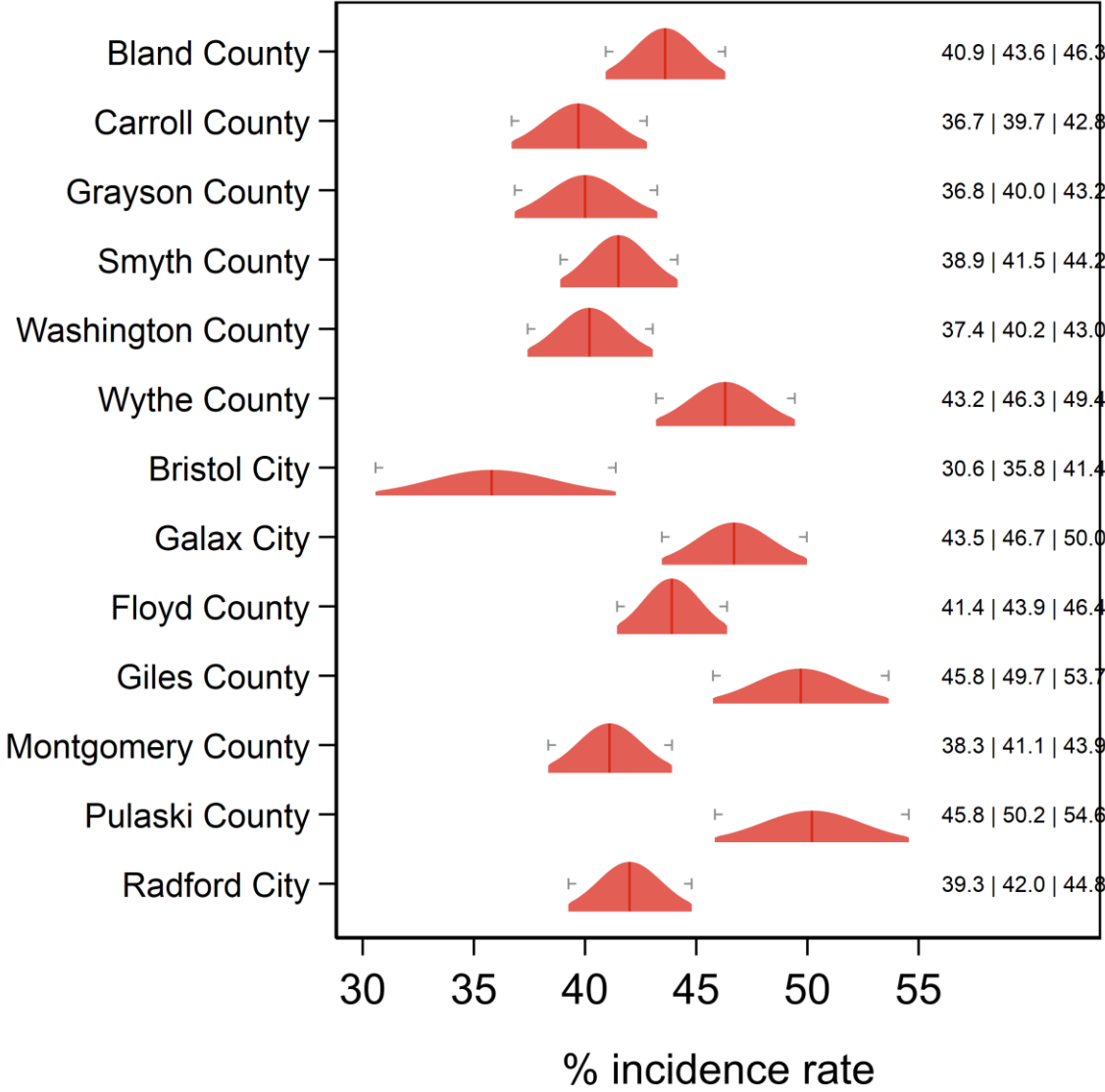
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 Gray markers: 95% confidence interval

Poor health prevents activities Pittsylvania/Danville, Southside and West Piedmont HDs



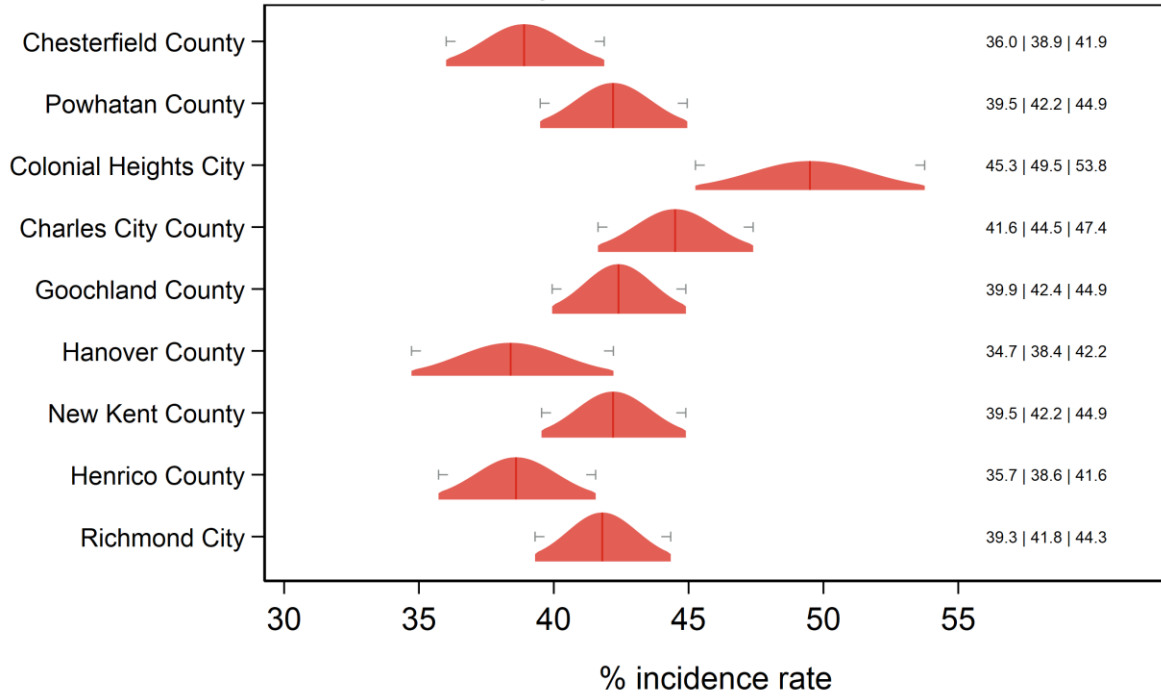
Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
 Gray markers: 95% confidence interval

Poor health prevents activities New River and Mount Rogers HDs



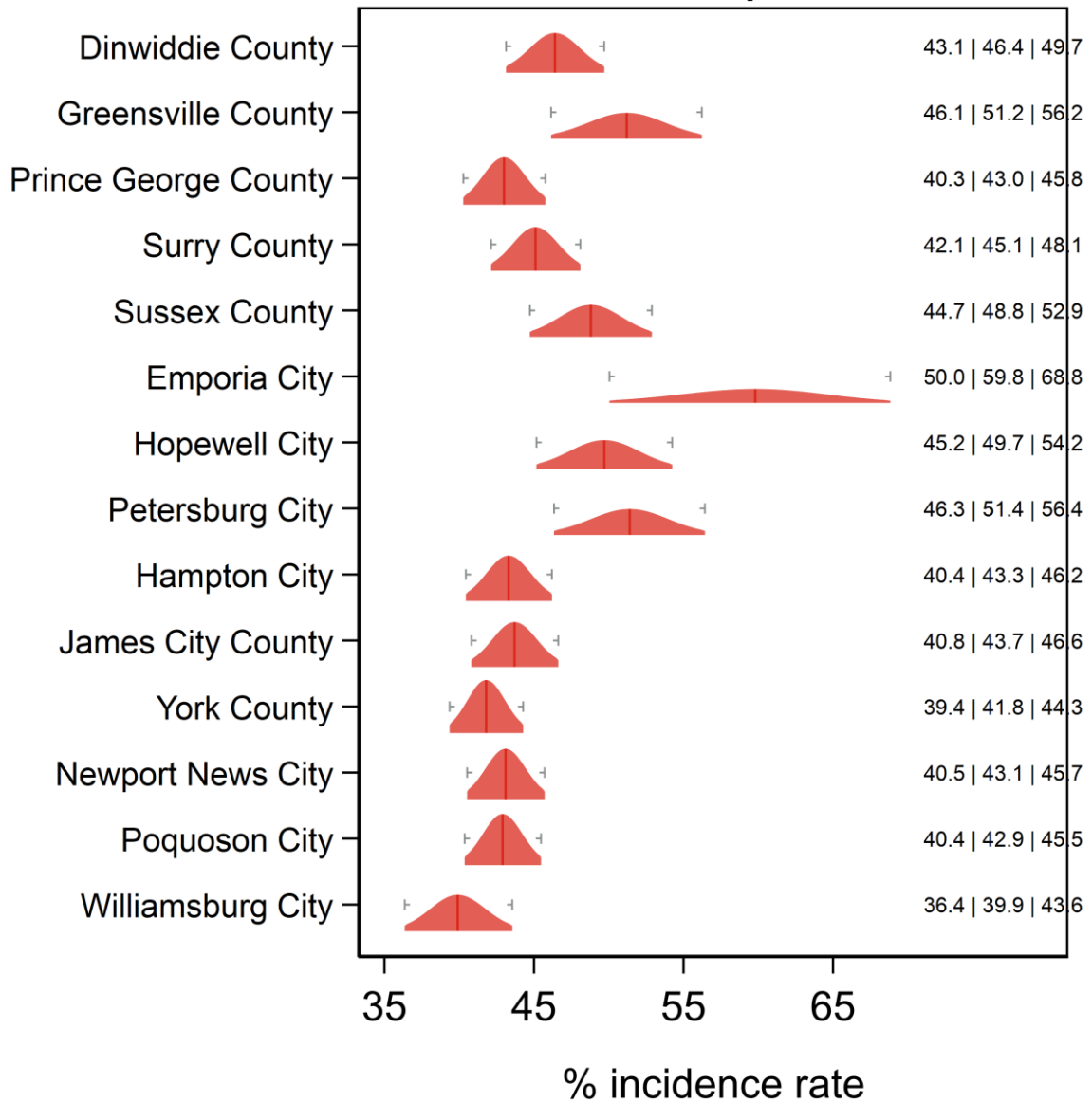
Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
 Gray markers: 95% confidence interval

Poor health prevents activities Chesterfield, Chickahominy, Henrico and Richmond HDs



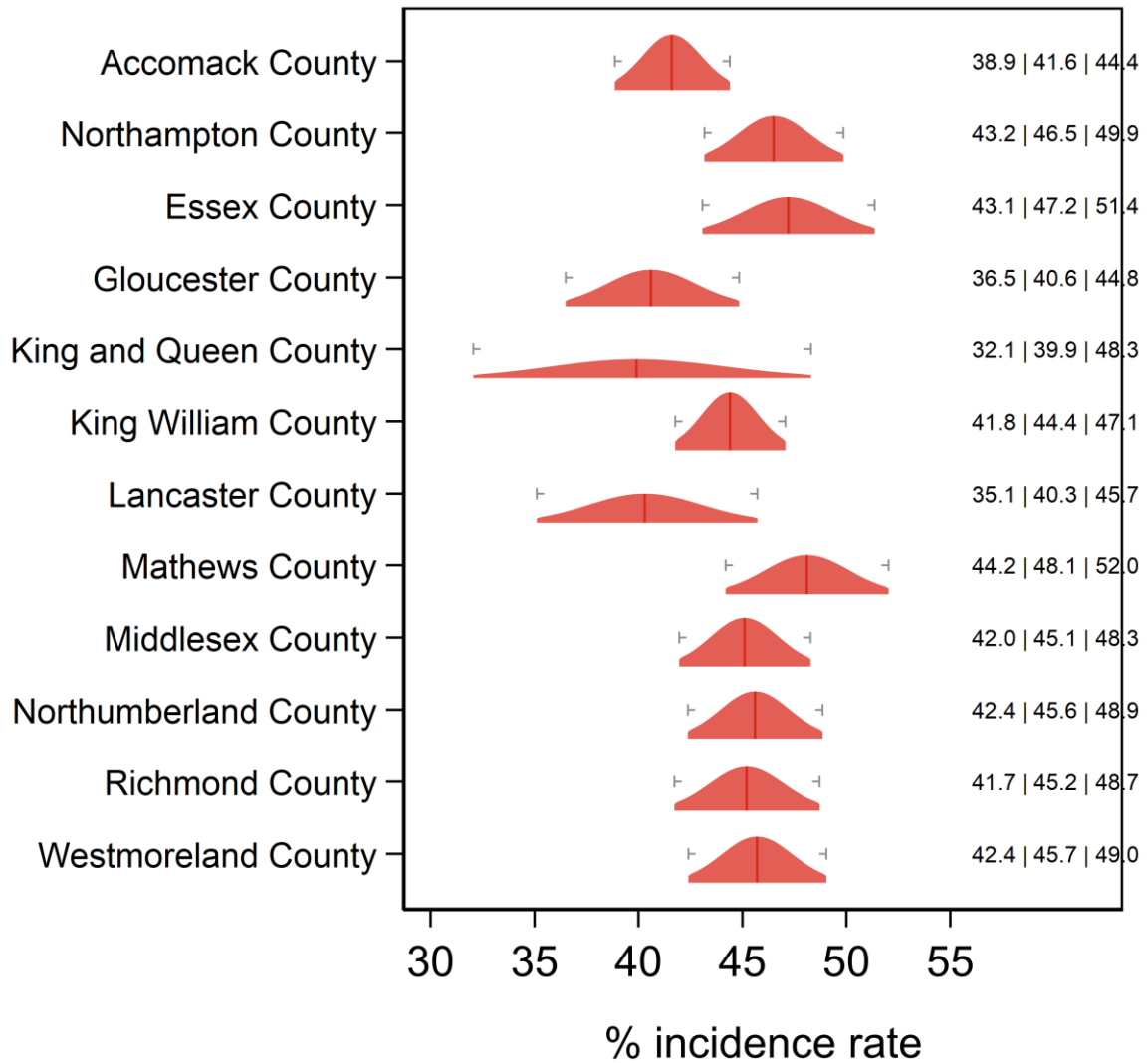
Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
 Gray markers: 95% confidence interval

Poor health prevents activities Crater, Peninsula and Hampton HDs



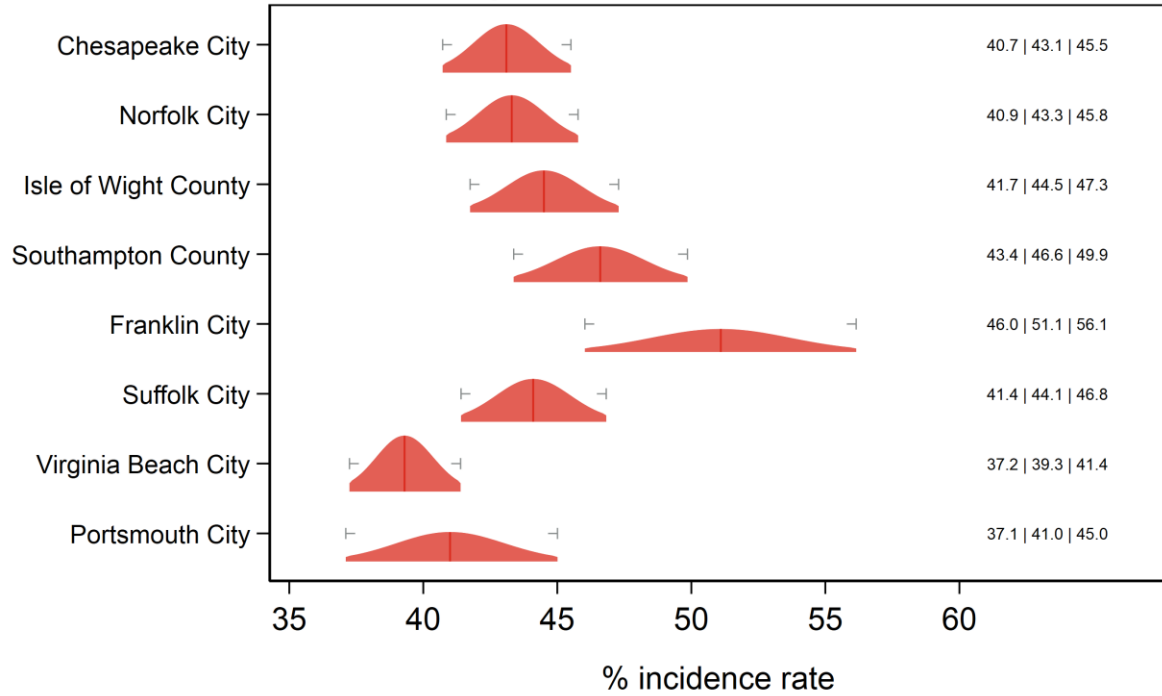
Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
 Gray markers: 95% confidence interval

Poor health prevents activities Eastern Shore and Three Rivers HDs



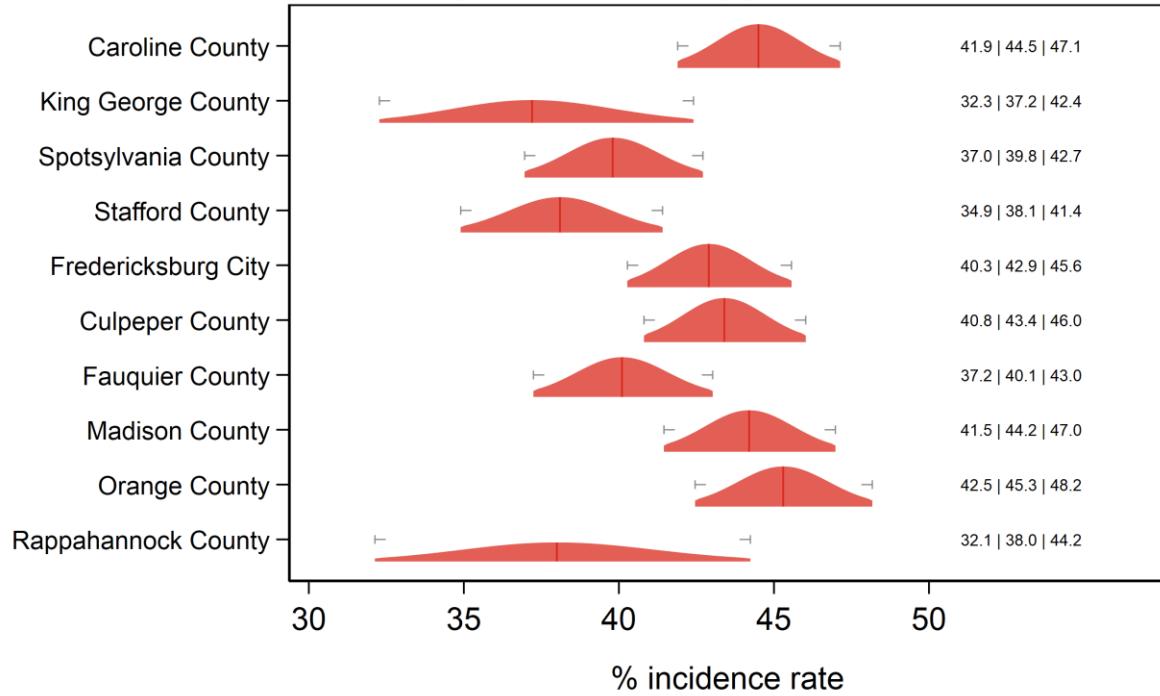
Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
 Gray markers: 95% confidence interval

Poor health prevents activities Norfolk, Portsmouth, Chesapeake, VA Beach, W. Tidewater HDs



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

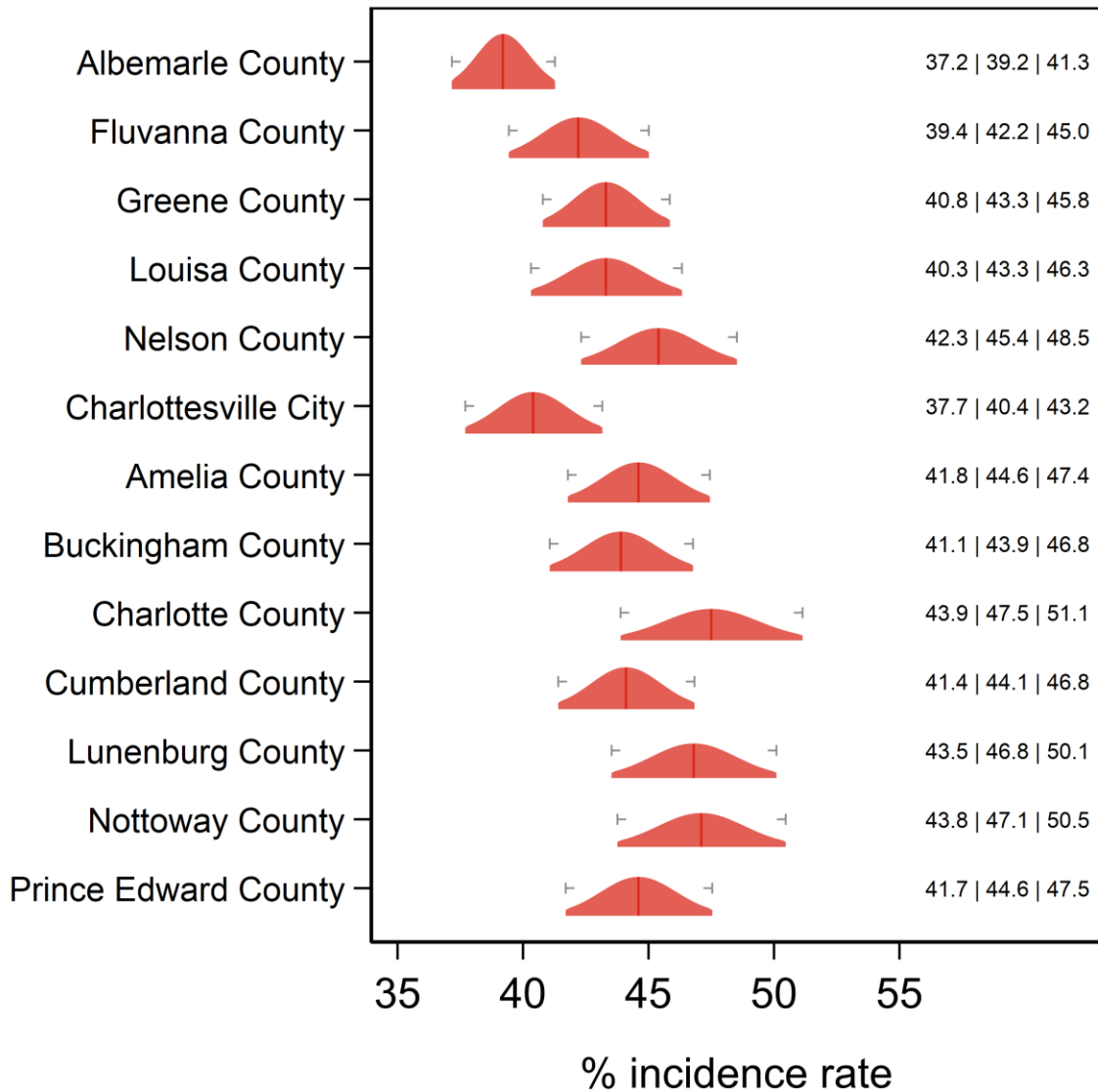
Poor health prevents activities Rappahannock/Rapidan and Rappahannock HDs



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

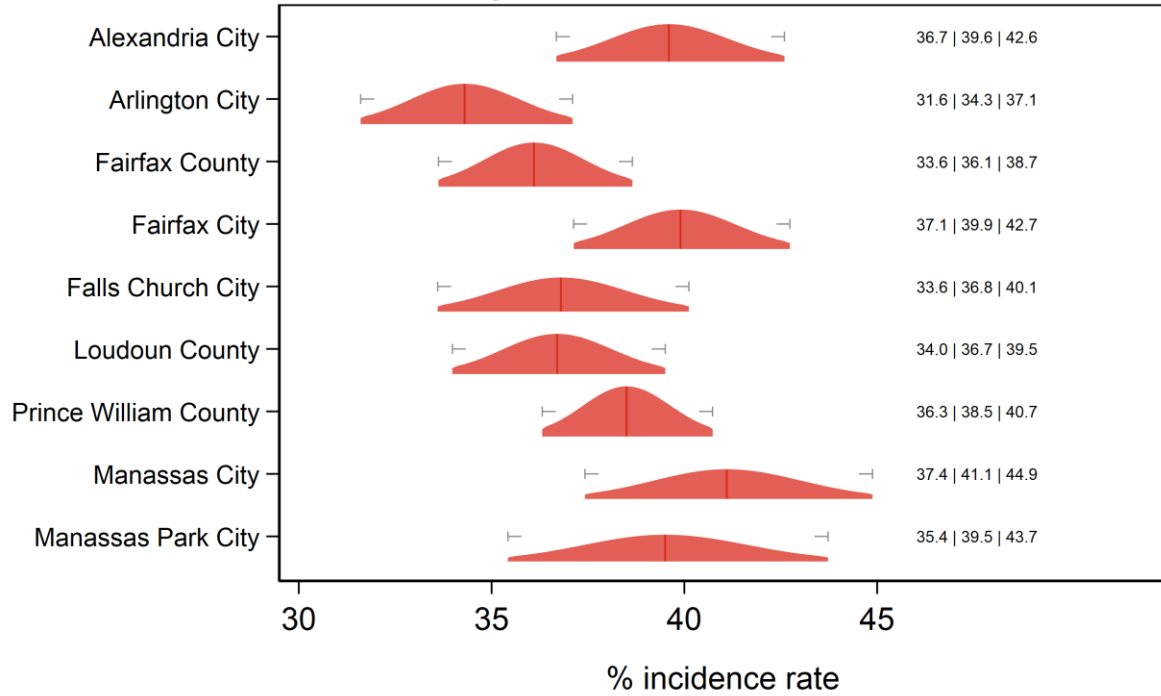
Poor health prevents activities

Thomas Jefferson and Piedmont HDs



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

Poor health prevents activities Alexandria, Fairfax, Arlington, Loudon, Prince William HDs



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: 26 areas.

Direct estimate is outside the 95% SAE Wilson CI: 107 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: 127 areas.

SAE Wilson 95% CI partially overlaps with the 95% direct Wilson CI: 6 areas.

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

SAE standard error is less than the direct standard error: 128 areas.

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

Direct standard error is zero: 5 areas.

Proportion of SAE variance due to ACS sampling error: min = 1.85%; med = 19.41%; max = 41.01%.

Proportion of SAE variance due to sampling error in regression coefficient estimates: min = 24.22%; med = 71.31%; max = 95.06%.

Proportion of SAE variance due to model selection: min = 0.17%; med = 6.00%; max = 73.92%.

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