Indicator 23: 3+ adverse childhood experiences

Internal variable name: outc23_ace

Definition: Recode of any Yes/Once/More than once -- mental drinker druabuse prison divorce phyabuse underabuse insult touchsex maketouch forcesex

Predictive models

	Mixed, demos only	Logit, no area effects	Mixed with area covariates
	b/se	b/se	b/se
Outcome 23: 3+ adverse childhood experiences			
NH Black vs. NH White	-0.0608	-0.1510	-0.1510
	(0.0863)	(0.1076)	(0.0954)
NH Asian vs. NH White	-1.1391***	-1.1366***	-1.1366***
	(0.2068)	(0.3005)	(0.2142)
NH Other vs. NH White	0.7234***	0.7336***	0.7336***
	(0.2066)	(0.1701)	(0.2080)
Hispanic vs. NH White	0.1046	0.1292	0.1292
	(0.2177)	(0.1819)	(0.2154)
Female	0.2291**	0.2364**	0.2364**
	(0.0820)	(0.0800)	(0.0826)
Age 18-34 vs. 65+	1.4357***	1.4168***	1.4168***
	(0.1151)	(0.1139)	(0.1177)
Age 35-44 vs. 65+	1.3708***	1.3570***	1.3570***
	(0.1157)	(0.1219)	(0.1128)
Age 45-54 vs. 65+	1.0919***	1.1070***	1.1070***
	(0.1045)	(0.1085)	(0.1035)
Age 55-64 vs. 65+	1.0008***	1.0126***	1.0126***
	(0.1145)	(0.1042)	(0.1156)
Road density per county land area		0.4121**	0.4121***
		(0.1570)	(0.1014)
% occupied HUs - renter-occupied		2.5616	2.5616**
		(1.5086)	(0.9715)
% renter occupied HUs, ACS 2016 5yr		-2.5747	-2.5747**
		(1.5086)	(0.9712)
Estimated infant mortality rate		-0.0245*	-0.0245*
		(0.0109)	(0.0097)

Crude mortality rate of septicemia per 10K		0.1026* (0.0485)	0.1026** (0.0386)
Drug overdose mortality rate, County Rankings/CDC		0.0916 (0.0547)	0.0916** (0.0342)
VA BRFSS 2014 SAE outc4_health_cover		5.5973* (2.7899)	5.5973* (2.1727)
c.CHR_overdose_model#c.VA14SAE_outc4_health_cover		-0.2851 (0.3293)	-0.2851 (0.2082)
% moved last year, ACS 2016 5yr		0.0949 (0.0499)	0.0949* (0.0433)
VA BRFSS 2014 SAE outc34_pap_test		3.5298* (1.4315)	3.5298** (1.0636)
c.PDB_pct_diff_hu_1yr_ago_ACS126#c.VA14SAE_outc34_pap_test		-0.0761 (0.0638)	-0.0761 (0.0550)
Intercept	-2.1572*** (0.0889)	-10.8963*** (2.3484)	-10.8963*** (1.5447)
Area effect variance	0.0000 (0.0000)		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	29.1%	(18.6%, 42.3%)	20.6%	(18.2%, 23.1%)
Bath County	51017	0.0%	(0.0%, 48.9%)	22.8%	(16.2%, 31.0%)
Caroline County	51033	46.8%	(20.6%, 74.9%)	35.7%	(27.9%, 44.3%)
Clarke County	51043	6.5%	(2.0%, 44.9%)	20.9%	(17.1%, 25.2%)
Culpeper County	51047	30.6%	(16.2%, 50.0%)	22.3%	(20.1%, 24.7%)
Fauquier County	51061	32.3%	(16.8%, 53.0%)	24.7%	(21.7%, 27.9%)
Frederick County	51069	19.8%	(9.9%, 35.9%)	24.5%	(21.4%, 28.0%)
Highland County	51091	0.0%	(0.0%, 53.2%)	12.7%	(8.2%, 19.0%)
King George County	51099	56.8%	(24.0%, 84.5%)	28.0%	(24.5%, 31.9%)
Madison County	51113	8.6%	(3.6%, 34.4%)	26.0%	(21.5%, 31.0%)
Orange County	51137	25.9%	(11.1%, 49.4%)	22.9%	(20.2%, 25.9%)
Page County	51139	21.4%	(9.1%, 42.6%)	21.3%	(18.4%, 24.5%)
Rappahannock County	51157	24.5%	(7.0%, 58.6%)	21.0%	(16.9%, 25.8%)
Rockbridge County	51163	22.1%	(8.5%, 46.5%)	22.7%	(19.7%, 26.0%)
Rockingham County	51165	22.0%	(13.5%, 33.8%)	24.7%	(22.2%, 27.3%)
Shenandoah County	51171	14.8%	(6.5%, 30.4%)	20.3%	(17.4%, 23.5%)
Spotsylvania County	51177	33.3%	(21.9%, 47.1%)	22.1%	(19.0%, 25.5%)
Stafford County	51179	24.1%	(15.7%, 35.2%)	22.8%	(20.0%, 25.9%)
Warren County	51187	30.7%	(16.4%, 49.9%)	24.7%	(21.6%, 28.0%)
Buena Vista City	51530	0.0%	(0.0%, 62.9%)	23.5%	(18.0%, 30.0%)
Fredericksburg City	51630	34.8%	(16.2%, 59.6%)	28.1%	(22.7%, 34.2%)
Harrisonburg City	51660	19.0%	(3.5%, 60.6%)	28.4%	(15.8%, 45.7%)
Lexington City	51678	0.0%	(0.0%, 96.3%)	14.6%	(9.7%, 21.5%)
Staunton City	51790	14.9%	(2.0%, 59.7%)	18.3%	(14.5%, 22.8%)
Waynesboro City	51820	32.0%	(8.8%, 69.8%)	21.1%	(17.6%, 25.1%)
Winchester City	51840	8.1%	(2.2%, 69.0%)	24.6%	(19.6%, 30.4%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE CI
Albemarle County	51003	23.3%	(14.8%, 34.7%)	18.2%	(15.5%, 21.1%)
Alleghany County	51005	15.8%	(5.5%, 37.9%)	12.4%	(9.1%, 16.8%)
Amherst County	51009	7.0%	(3.6%, 28.6%)	18.3%	(14.2%, 23.1%)
Appomattox County	51011	22.2%	(7.6%, 49.8%)	14.7%	(11.7%, 18.4%)
Arlington City	51013	23.2%	(14.7%, 34.7%)	29.1%	(25.1%, 33.4%)
Bedford County	51019	17.0%	(9.7%, 28.1%)	18.6%	(16.6%, 20.7%)
Botetourt County	51023	20.0%	(7.6%, 43.3%)	18.5%	(15.7%, 21.6%)
Campbell County	51031	24.4%	(14.1%, 38.7%)	21.4%	(17.9%, 25.3%)
Craig County	51045	38.7%	(7.4%, 83.4%)	22.2%	(17.2%, 28.2%)
Fairfax County	51059	25.3%	(20.4%, 30.9%)	21.9%	(19.9%, 24.0%)
Fluvanna County	51065	34.3%	(16.3%, 58.3%)	22.7%	(18.5%, 27.5%)
Greene County	51079	50.5%	(16.0%, 84.6%)	21.9%	(17.0%, 27.8%)
Loudoun County	51107	23.1%	(15.5%, 33.1%)	21.8%	(19.5%, 24.4%)
Louisa County	51109	42.5%	(24.5%, 62.7%)	25.4%	(21.9%, 29.3%)
Nelson County	51125	46.1%	(19.5%, 75.2%)	22.7%	(19.2%, 26.8%)
Prince William County	51153	23.5%	(18.1%, 30.0%)	23.6%	(21.7%, 25.7%)
Roanoke County	51161	25.2%	(15.9%, 37.5%)	22.0%	(19.4%, 24.8%)
Alexandria City	51510	29.7%	(20.0%, 41.7%)	24.8%	(21.2%, 28.9%)
Charlottesville City	51540	15.9%	(5.0%, 40.7%)	22.2%	(17.1%, 28.3%)
Covington City	51580	19.5%	(0.4%, 97.4%)	28.4%	(21.4%, 36.6%)
Fairfax City	51600	19.8%	(11.1%, 32.7%)	17.5%	(15.3%, 20.0%)
Falls Church City	51610	36.3%	(15.1%, 64.7%)	20.4%	(16.6%, 24.7%)
Lynchburg City	51680	41.1%	(27.9%, 55.7%)	26.8%	(21.9%, 32.4%)
Manassas City	51683	21.9%	(6.4%, 53.7%)	22.4%	(18.8%, 26.5%)
Manassas Park City	51685	52.4%	(7.6%, 93.6%)	18.5%	(14.4%, 23.3%)
Salem City	51775	58.6%	(24.5%, 86.1%)	28.2%	(22.8%, 34.4%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE CI
Bland County	51021	33.2%	(12.5%, 63.4%)	22.4%	(16.2%, 30.2%)
Buchanan County	51027	17.4%	(7.0%, 37.0%)	16.4%	(12.1%, 21.9%)
Carroll County	51035	20.1%	(8.3%, 41.1%)	21.3%	(17.5%, 25.5%)
Dickenson County	51051	37.3%	(15.7%, 65.5%)	19.3%	(14.9%, 24.6%)
Floyd County	51063	12.9%	(5.4%, 27.9%)	19.1%	(14.8%, 24.3%)
Franklin County	51067	27.7%	(11.6%, 52.7%)	22.5%	(19.8%, 25.4%)
Giles County	51071	27.3%	(13.5%, 47.3%)	26.8%	(23.0%, 31.0%)
Grayson County	51077	16.1%	(5.0%, 40.9%)	15.0%	(10.7%, 20.8%)
Henry County	51089	31.3%	(16.9%, 50.7%)	26.5%	(23.2%, 30.1%)
Lee County	51105	19.4%	(7.0%, 43.6%)	23.8%	(19.5%, 28.7%)
Montgomery County	51121	35.3%	(23.6%, 49.1%)	22.5%	(15.7%, 31.0%)
Patrick County	51141	52.9%	(23.6%, 80.4%)	22.8%	(18.2%, 28.1%)
Pittsylvania County	51143	33.8%	(23.1%, 46.3%)	24.1%	(20.8%, 27.7%)
Pulaski County	51155	39.7%	(21.9%, 60.7%)	29.8%	(25.3%, 34.8%)
Russell County	51167	12.2%	(5.8%, 30.9%)	20.5%	(16.5%, 25.3%)
Scott County	51169	17.5%	(6.0%, 41.3%)	26.0%	(22.7%, 29.6%)
Smyth County	51173	19.3%	(6.4%, 45.4%)	16.1%	(12.6%, 20.5%)
Tazewell County	51185	30.0%	(14.8%, 51.3%)	28.5%	(23.9%, 33.7%)
Washington County	51191	28.6%	(16.5%, 44.8%)	24.5%	(21.8%, 27.5%)
Wise County	51195	33.7%	(19.7%, 51.2%)	29.8%	(24.0%, 36.3%)
Wythe County	51197	35.6%	(18.6%, 57.1%)	30.3%	(25.7%, 35.4%)
Bristol City	51520	0.0%	(0.0%, 91.1%)	31.7%	(22.7%, 42.4%)
Danville City	51590	12.1%	(3.2%, 36.4%)	23.3%	(18.2%, 29.4%)
Galax City	51640	41.7%	(2.2%, 95.7%)	15.9%	(10.4%, 23.7%)
Martinsville City	51690	42.3%	(9.9%, 83.0%)	24.9%	(17.1%, 34.8%)
Norton City	51720	36.4%	(7.1%, 81.0%)	32.1%	(23.3%, 42.4%)
Radford City	51750	14.3%	(3.2%, 45.8%)	24.9%	(10.0%, 49.7%)
Roanoke City	51770	36.7%	(24.5%, 50.8%)	32.7%	(29.5%, 36.2%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE CI
Amelia County	51007	17.0%	(5.4%, 42.3%)	20.8%	(17.0%, 25.1%)
Brunswick County	51025	2.9%	(1.3%, 29.0%)	14.9%	(11.8%, 18.8%)
Buckingham County	51029	26.8%	(12.4%, 48.8%)	20.7%	(17.8%, 24.0%)
Charles City County	51036	46.4%	(10.0%, 87.0%)	26.6%	(21.2%, 32.8%)
Charlotte County	51037	14.0%	(6.9%, 33.5%)	15.6%	(11.2%, 21.4%)
Chesterfield County	51041	27.7%	(21.0%, 35.6%)	25.2%	(23.2%, 27.3%)
Cumberland County	51049	16.3%	(4.7%, 43.6%)	23.5%	(17.4%, 30.9%)
Dinwiddie County	51053	14.1%	(4.7%, 35.2%)	30.3%	(24.1%, 37.3%)
Goochland County	51075	20.0%	(6.2%, 48.6%)	18.5%	(15.9%, 21.4%)
Greensville County	51081	24.1%	(5.6%, 63.0%)	40.7%	(26.3%, 56.9%)
Halifax County	51083	17.5%	(8.1%, 34.0%)	14.8%	(11.7%, 18.6%)
Hanover County	51085	22.2%	(12.9%, 35.4%)	18.7%	(16.3%, 21.3%)
Henrico County	51087	29.3%	(21.2%, 39.0%)	26.6%	(24.0%, 29.3%)
Lunenburg County	51111	13.3%	(4.0%, 35.9%)	19.0%	(15.0%, 23.8%)
Mecklenburg County	51117	23.3%	(12.5%, 39.3%)	15.4%	(12.4%, 19.0%)
New Kent County	51127	12.9%	(3.8%, 35.8%)	18.2%	(15.0%, 22.0%)
Nottoway County	51135	5.3%	(2.6%, 43.6%)	16.1%	(13.3%, 19.3%)
Powhatan County	51145	21.2%	(8.5%, 43.8%)	15.9%	(13.3%, 18.8%)
Prince Edward County	51147	18.7%	(7.0%, 41.5%)	14.9%	(12.3%, 17.9%)
Prince George County	51149	17.4%	(8.5%, 32.2%)	15.2%	(12.9%, 17.7%)
Surry County	51181	29.4%	(9.1%, 63.3%)	25.3%	(21.6%, 29.5%)
Sussex County	51183	17.1%	(6.1%, 39.4%)	20.5%	(16.5%, 25.1%)
Colonial Heights City	51570	57.7%	(34.0%, 78.3%)	28.8%	(24.6%, 33.5%)
Emporia City	51595	62.9%	(3.5%, 98.6%)	30.6%	(20.9%, 42.4%)
Hopewell City	51670	36.5%	(15.3%, 64.5%)	27.6%	(23.6%, 32.0%)
Petersburg City	51730	37.4%	(21.0%, 57.2%)	26.4%	(22.3%, 30.9%)
Richmond City	51760	38.6%	(27.1%, 51.5%)	33.6%	(30.3%, 37.0%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE CI
Accomack County	51001	36.9%	(22.3%, 54.4%)	23.8%	(19.0%, 29.4%)
Essex County	51057	17.2%	(6.4%, 38.5%)	11.2%	(7.4%, 16.4%)
Gloucester County	51073	30.9%	(16.9%, 49.6%)	20.6%	(18.5%, 22.8%)
Isle of Wight County	51093	28.5%	(12.8%, 52.0%)	19.4%	(16.5%, 22.7%)
James City County	51095	12.1%	(5.9%, 23.2%)	13.4%	(11.3%, 15.8%)
King and Queen County	51097	8.8%	(1.8%, 45.6%)	18.2%	(13.9%, 23.3%)
King William County	51101	55.3%	(25.4%, 81.8%)	22.5%	(19.3%, 26.0%)
Lancaster County	51103	28.2%	(9.8%, 58.7%)	21.8%	(18.7%, 25.3%)
Mathews County	51115	31.9%	(11.5%, 62.8%)	22.8%	(19.6%, 26.3%)
Middlesex County	51119	19.0%	(6.1%, 45.9%)	19.8%	(17.4%, 22.5%)
Northampton County	51131	31.6%	(12.3%, 60.2%)	25.7%	(19.5%, 33.1%)
Northumberland County	51133	7.5%	(4.4%, 27.5%)	16.2%	(12.2%, 21.3%)
Richmond County	51159	21.6%	(5.6%, 56.1%)	18.7%	(15.4%, 22.5%)
Southampton County	51175	32.3%	(9.9%, 67.3%)	20.7%	(18.2%, 23.6%)
Westmoreland County	51193	43.2%	(20.3%, 69.4%)	21.5%	(18.6%, 24.8%)
York County	51199	12.9%	(6.1%, 25.0%)	17.2%	(15.6%, 19.0%)
Chesapeake City	51550	19.6%	(13.7%, 27.3%)	18.4%	(16.5%, 20.4%)
Franklin City	51620	12.9%	(3.2%, 39.6%)	19.2%	(13.9%, 25.7%)
Hampton City	51650	28.6%	(20.3%, 38.7%)	24.8%	(22.7%, 27.0%)
Newport News City	51700	34.2%	(23.7%, 46.5%)	34.8%	(30.8%, 39.1%)
Norfolk City	51710	35.2%	(25.9%, 45.8%)	30.6%	(27.6%, 33.8%)
Poquoson City	51735	31.9%	(3.5%, 86.0%)	20.8%	(16.9%, 25.5%)
Portsmouth City	51740	32.6%	(22.1%, 45.3%)	33.7%	(30.6%, 37.0%)
Suffolk City	51800	24.0%	(14.2%, 37.6%)	22.6%	(20.1%, 25.4%)
Virginia Beach City	51810	27.4%	(21.8%, 33.9%)	23.4%	(21.9%, 25.0%)
Williamsburg City	51830	18.9%	(1.8%, 74.4%)	27.1%	(17.8%, 39.1%)

Graphical representation

3+ adverse childhood experiences
Central Shenandoah and Lord Fairfax HDs

County	% incidence rate	LCB | Point Estimate | UCB
Augusta County		18.3 | 20.6 | 23.2
Bath County		16.2 | 22.8 | 31.1
Highland County		8.2 | 12.7 | 19.1
Rockbridge County		19.7 | 22.7 | 26.0
Rockingham County		22.2 | 24.7 | 27.4
Buena Vista City		18.0 | 23.5 | 30.0
Harrisonburg City		15.4 | 28.4 | 46.4
Lexington City		9.6 | 14.6 | 21.6
Staunton City		14.5 | 18.3 | 22.8
Waynesboro City		17.6 | 21.1 | 25.1
Clarke County		17.2 | 20.9 | 25.2
Frederick County		21.3 | 24.5 | 28.0
Page County		18.4 | 21.3 | 24.5
Shenandoah County		17.4 | 20.3 | 23.5
Warren County		21.6 | 24.7 | 28.0
Winchester City		19.6 | 24.6 | 30.4

% incidence rate

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

3+ adverse childhood experiences
Rappahannock/Rapidan and Rappahannock HDs
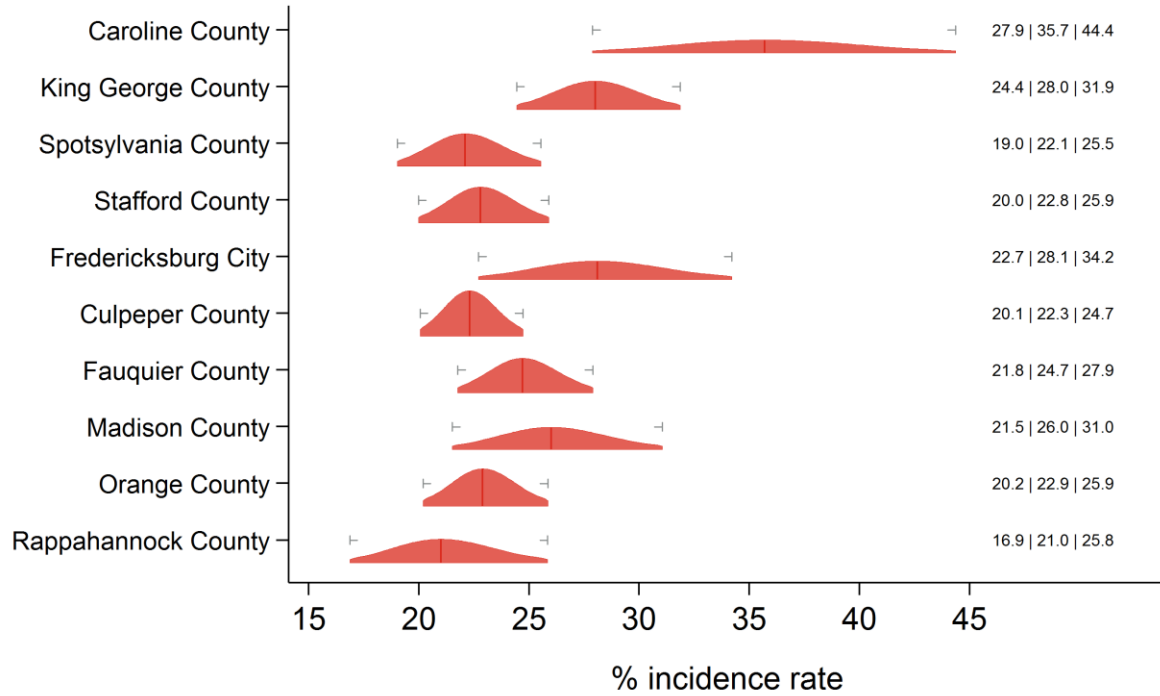
County	LCB | Point | UCB
Caroline County	27.9 | 35.7 | 44.4
King George County	24.4 | 28.0 | 31.9
Spotsylvania County	19.0 | 22.1 | 25.5
Stafford County	20.0 | 22.8 | 25.9
Fredericksburg City	22.7 | 28.1 | 34.2
Culpeper County	20.1 | 22.3 | 24.7
Fauquier County	21.8 | 24.7 | 27.9
Madison County	21.5 | 26.0 | 31.0
Orange County	20.2 | 22.9 | 25.9
Rappahannock County	16.9 | 21.0 | 25.8

% incidence rate

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

3+ adverse childhood experiences
Thomas Jefferson and Piedmont HDs

County	LCB	Point Estimate	UCB
Albemarle County	15.6	18.2	21.1
Fluvanna County	18.5	22.7	27.6
Greene County	16.9	21.9	27.8
Louisa County	21.9	25.4	29.3
Nelson County	19.1	22.7	26.7
Charlottesville City	17.1	22.2	28.3
Amelia County	17.0	20.8	25.1
Buckingham County	17.8	20.7	24.0
Charlotte County	11.2	15.6	21.4
Cumberland County	17.4	23.5	31.0
Lunenburg County	15.0	19.0	23.8
Nottoway County	13.3	16.1	19.3
Prince Edward County	12.3	14.9	17.9

% incidence rate

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

3+ adverse childhood experiences
Alexandria, Fairfax, Arlington, Loudon, Prince William HDs

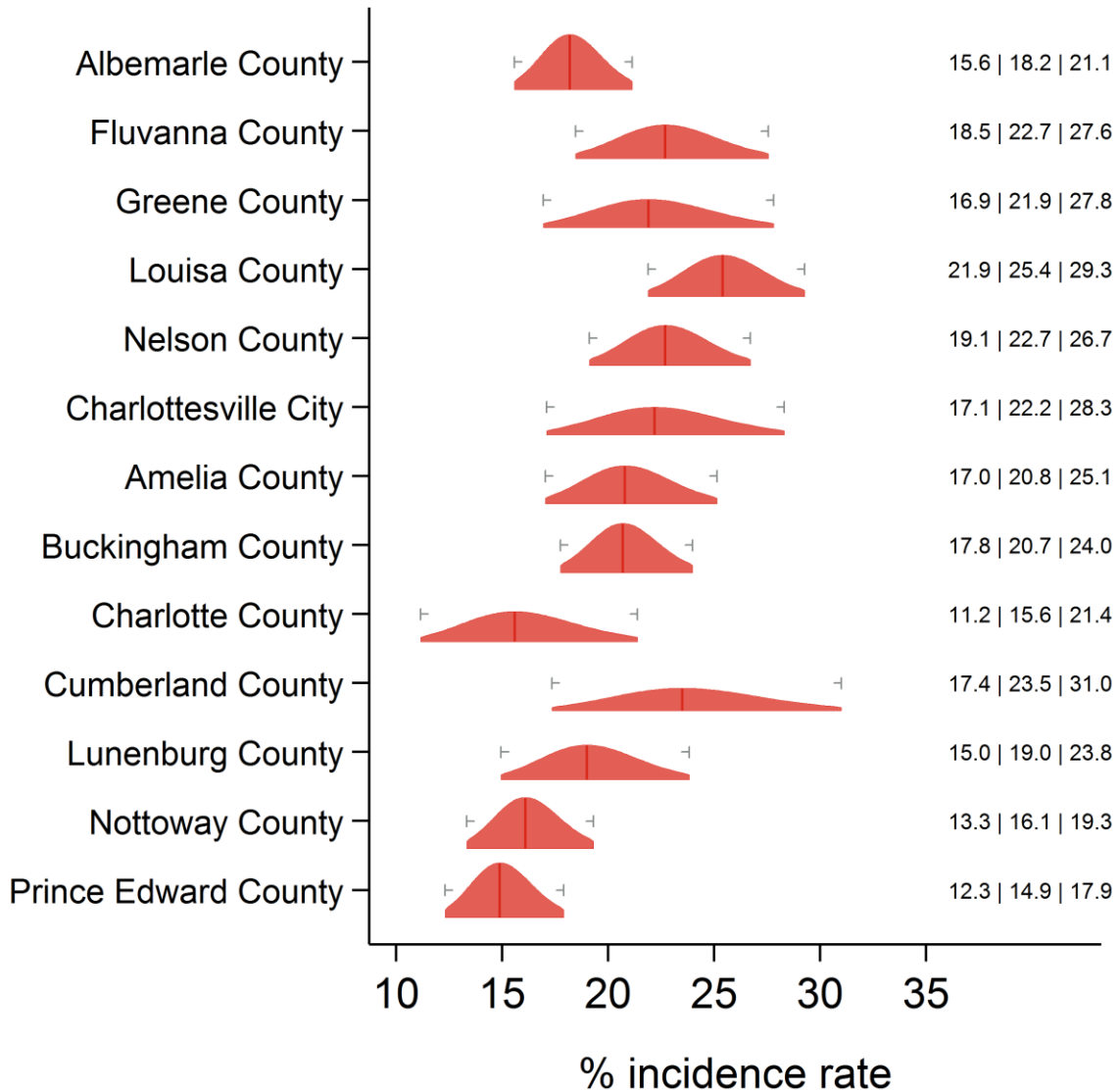| Location	LCB | PE | UCB
Alexandria City	21.1 | 24.8 | 28.9
Arlington City	25.1 | 29.1 | 33.5
Fairfax County	19.9 | 21.9 | 24.1
Fairfax City	15.3 | 17.5 | 19.9
Falls Church City	16.7 | 20.4 | 24.7
Loudoun County	19.4 | 21.8 | 24.4
Prince William County	21.7 | 23.6 | 25.7
Manassas City	18.8 | 22.4 | 26.5
Manassas Park City	14.5 | 18.5 | 23.3

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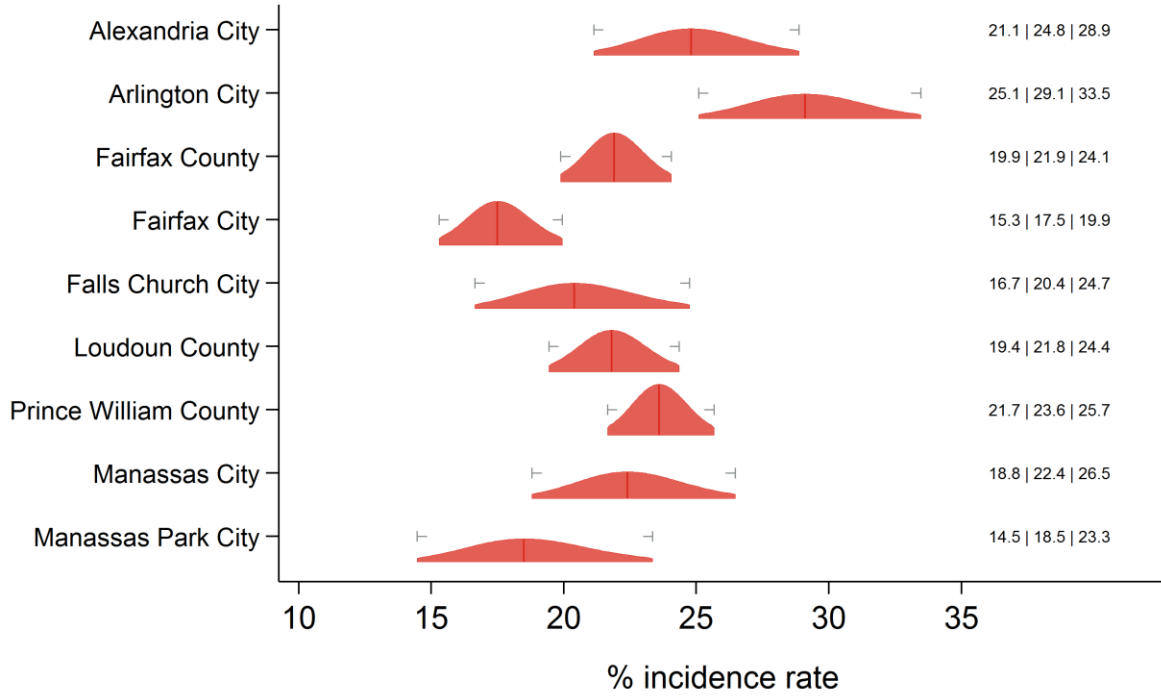
Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
Gray markers: 95% confidence interval

3+ adverse childhood experiences
Alleghany, Roanoke and Central Virginia HDs

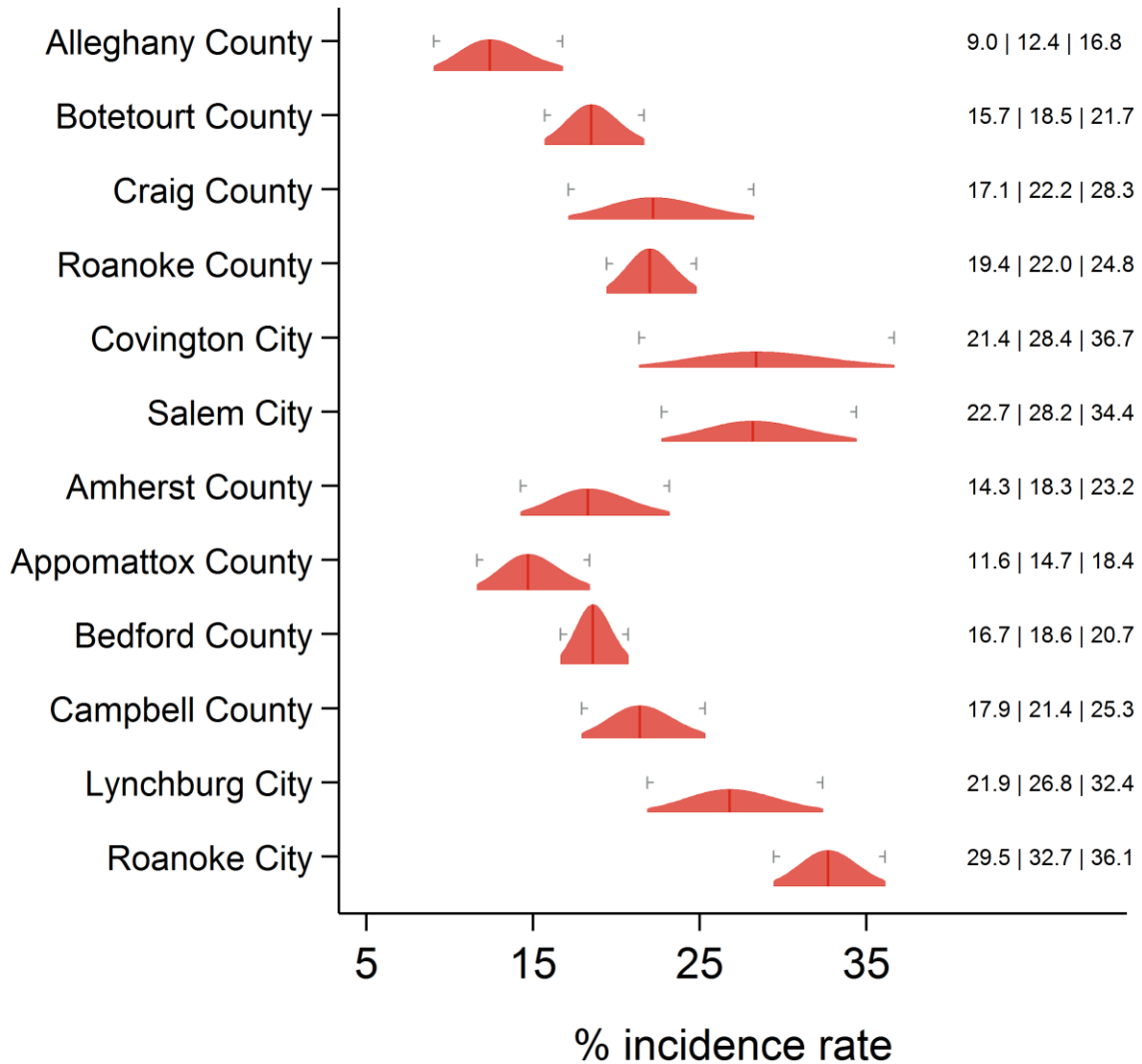| County/City	Values
Alleghany County	9.0 | 12.4 | 16.8
Botetourt County	15.7 | 18.5 | 21.7
Craig County	17.1 | 22.2 | 28.3
Roanoke County	19.4 | 22.0 | 24.8
Covington City	21.4 | 28.4 | 36.7
Salem City	22.7 | 28.2 | 34.4
Amherst County	14.3 | 18.3 | 23.2
Appomattox County	11.6 | 14.7 | 18.4
Bedford County	16.7 | 18.6 | 20.7
Campbell County	17.9 | 21.4 | 25.3
Lynchburg City	21.9 | 26.8 | 32.4
Roanoke City	29.5 | 32.7 | 36.1

% incidence rate

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

3+ adverse childhood experiences
Cumberland Plateau and Lenowisco HDs

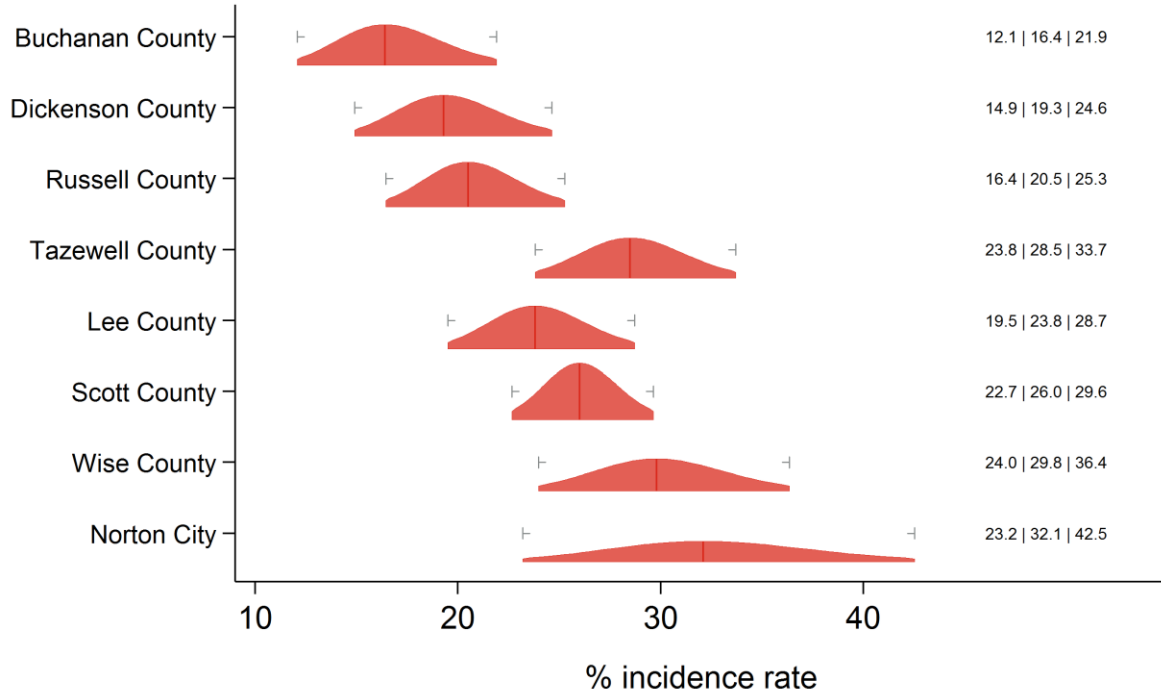| County	95% LCB	Point Estimate	95% UCB
Buchanan County	12.1	16.4	21.9
Dickenson County	14.9	19.3	24.6
Russell County	16.4	20.5	25.3
Tazewell County	23.8	28.5	33.7
Lee County	19.5	23.8	28.7
Scott County	22.7	26.0	29.6
Wise County	24.0	29.8	36.4
Norton City	23.2	32.1	42.5

% incidence rate

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

3+ adverse childhood experiences
Pittsylvania/Danville, Southside and West Piedmont HDs

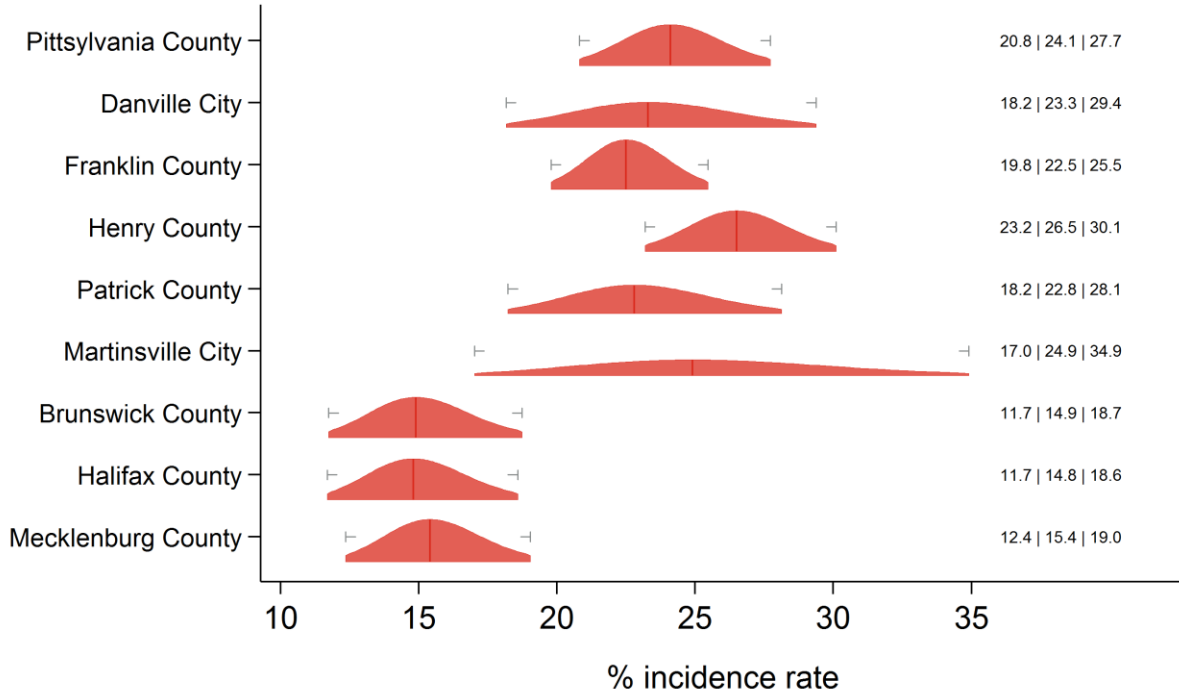| County	LCB	Point Estimate	UCB
Pittsylvania County	20.8	24.1	27.7
Danville City	18.2	23.3	29.4
Franklin County	19.8	22.5	25.5
Henry County	23.2	26.5	30.1
Patrick County	18.2	22.8	28.1
Martinsville City	17.0	24.9	34.9
Brunswick County	11.7	14.9	18.7
Halifax County	11.7	14.8	18.6
Mecklenburg County	12.4	15.4	19.0

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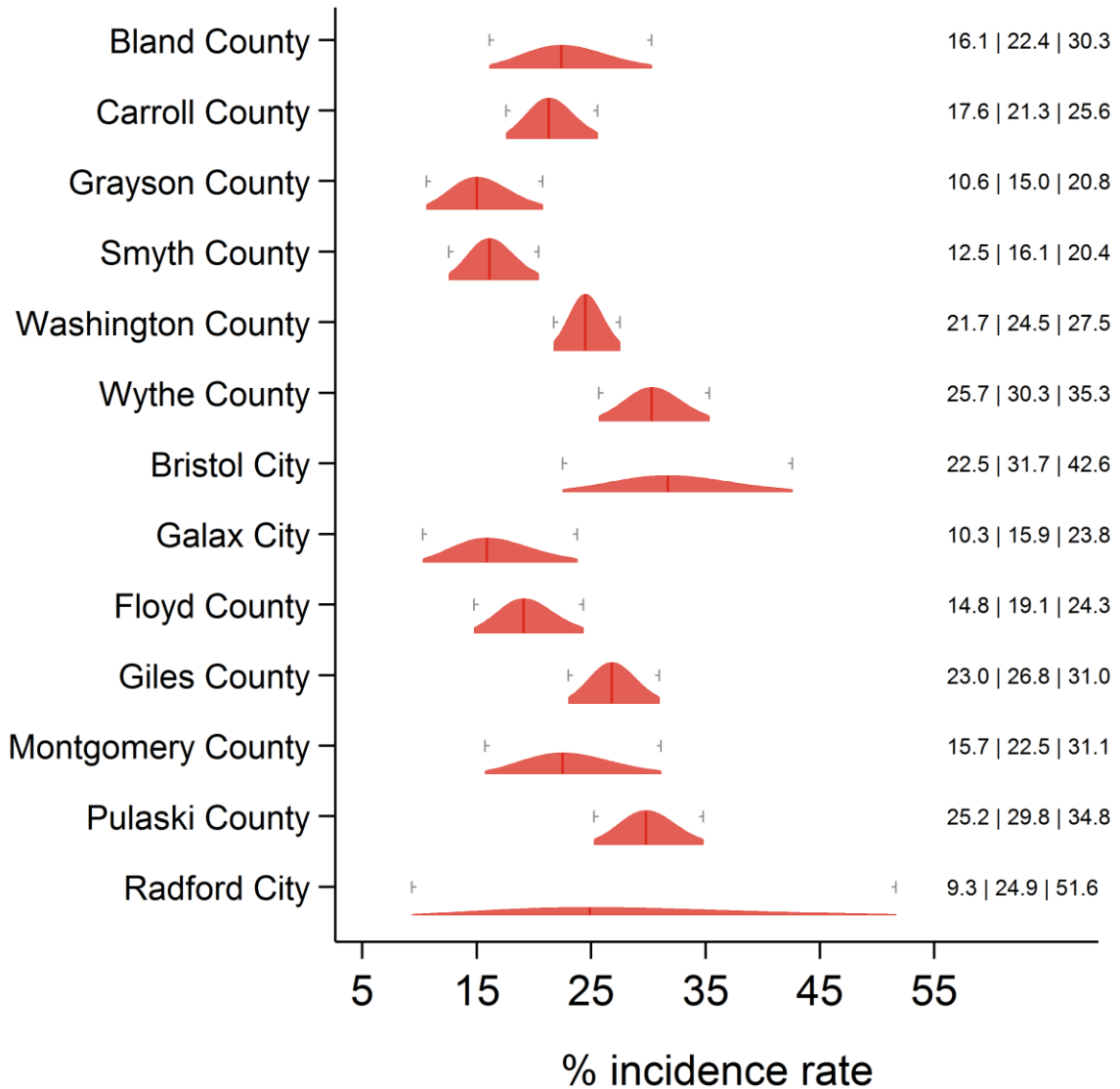
Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB
Gray markers: 95% confidence interval

3+ adverse childhood experiences
New River and Mount Rogers HDs

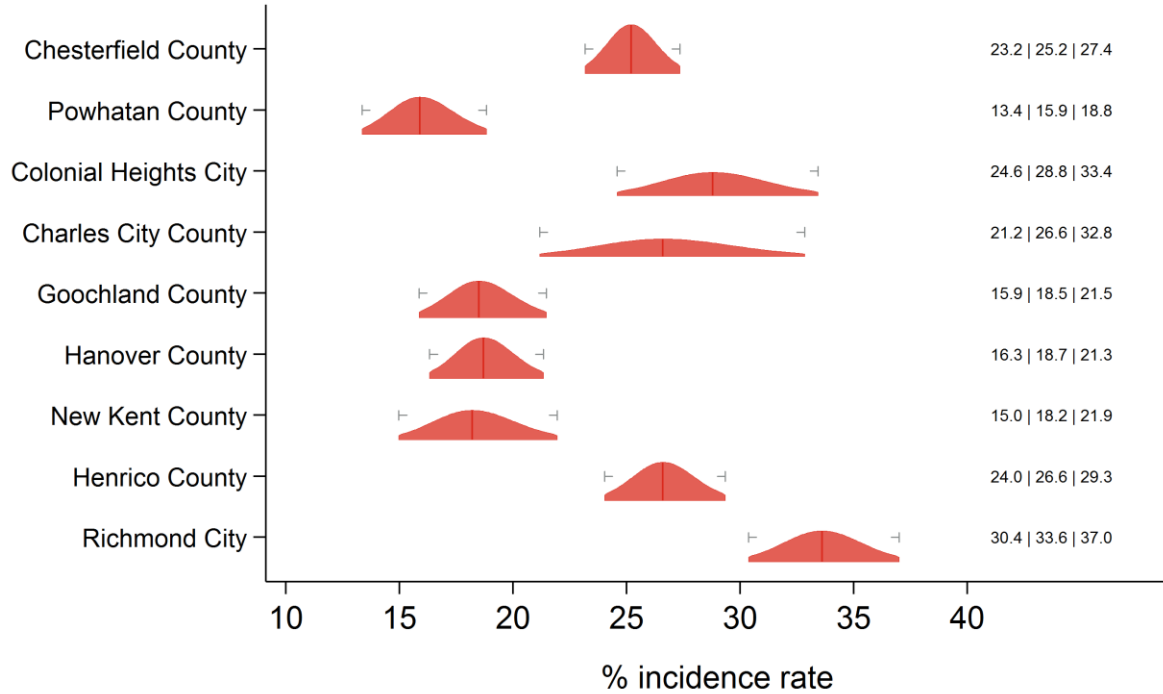| County	LCB | Point | UCB
Bland County	16.1 | 22.4 | 30.3
Carroll County	17.6 | 21.3 | 25.6
Grayson County	10.6 | 15.0 | 20.8
Smyth County	12.5 | 16.1 | 20.4
Washington County	21.7 | 24.5 | 27.5
Wythe County	25.7 | 30.3 | 35.3
Bristol City	22.5 | 31.7 | 42.6
Galax City	10.3 | 15.9 | 23.8
Floyd County	14.8 | 19.1 | 24.3
Giles County	23.0 | 26.8 | 31.0
Montgomery County	15.7 | 22.5 | 31.1
Pulaski County	25.2 | 29.8 | 34.8
Radford City	9.3 | 24.9 | 51.6

% incidence rate

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

3+ adverse childhood experiences
Chesterfield, Chickahominy, Henrico and Richmond HDs

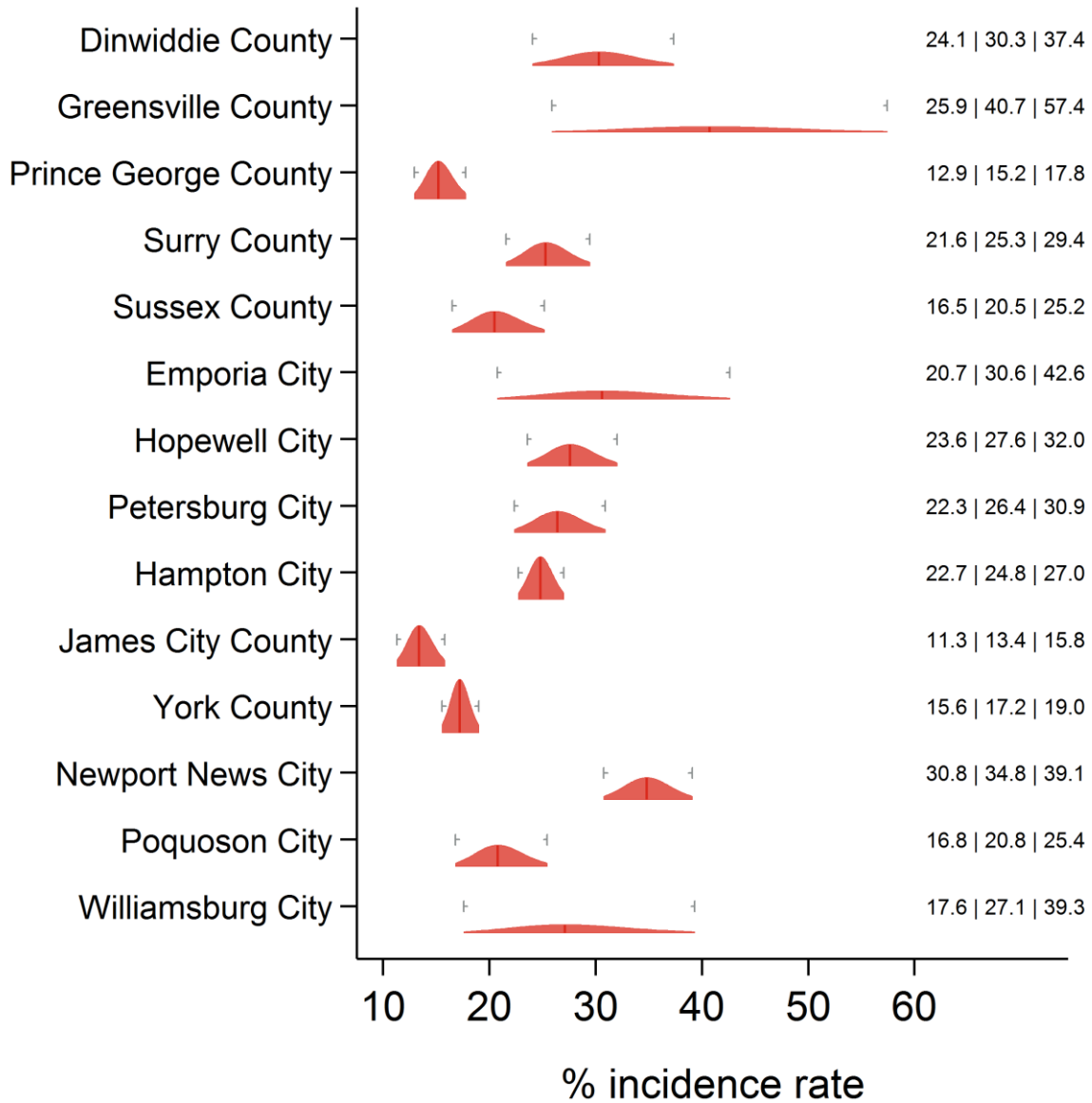| County	95% LCB	Point Estimate	95% UCB
Chesterfield County	23.2	25.2	27.4
Powhatan County	13.4	15.9	18.8
Colonial Heights City	24.6	28.8	33.4
Charles City County	21.2	26.6	32.8
Goochland County	15.9	18.5	21.5
Hanover County	16.3	18.7	21.3
New Kent County	15.0	18.2	21.9
Henrico County	24.0	26.6	29.3
Richmond City	30.4	33.6	37.0

% incidence rate

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

3+ adverse childhood experiences
Crater, Peninsula and Hampton HDs

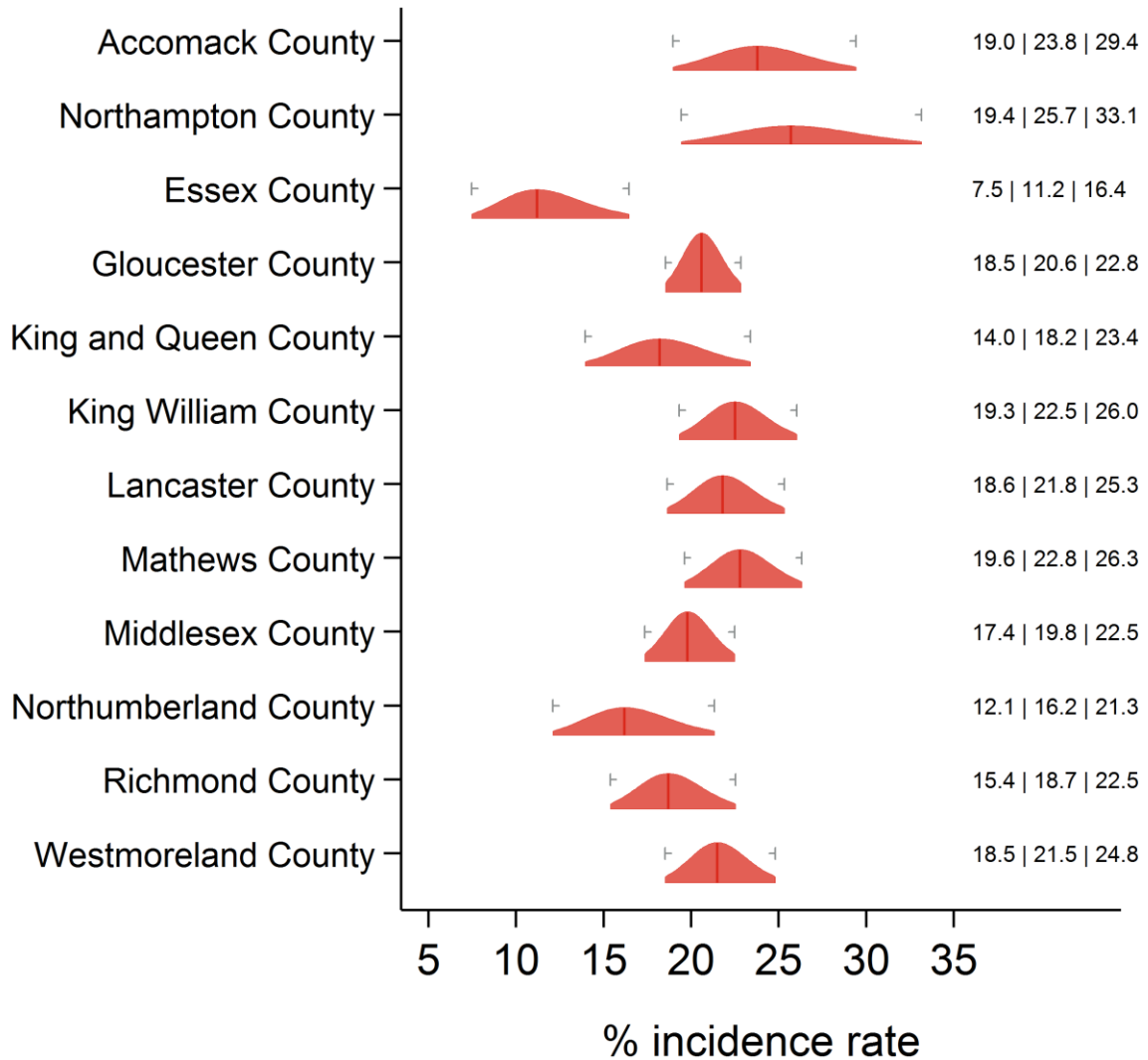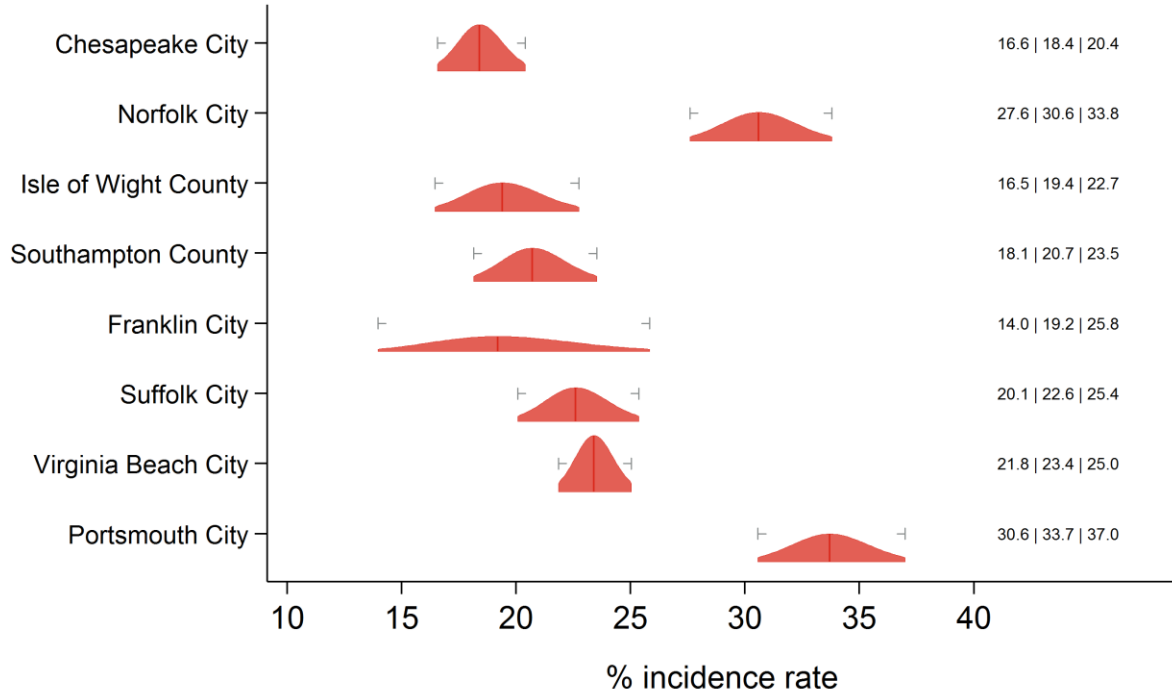| County/City	LCB	Point	UCB
Dinwiddie County	24.1	30.3	37.4
Greensville County	25.9	40.7	57.4
Prince George County	12.9	15.2	17.8
Surry County	21.6	25.3	29.4
Sussex County	16.5	20.5	25.2
Emporia City	20.7	30.6	42.6
Hopewell City	23.6	27.6	32.0
Petersburg City	22.3	26.4	30.9
Hampton City	22.7	24.8	27.0
James City County	11.3	13.4	15.8
York County	15.6	17.2	19.0
Newport News City	30.8	34.8	39.1
Poquoson City	16.8	20.8	25.4
Williamsburg City	17.6	27.1	39.3

% incidence rate

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

3+ adverse childhood experiences
Eastern Shore and Three Rivers HDs

County	LCB | Point Estimate | UCB
Accomack County	19.0 | 23.8 | 29.4
Northampton County	19.4 | 25.7 | 33.1
Essex County	7.5 | 11.2 | 16.4
Gloucester County	18.5 | 20.6 | 22.8
King and Queen County	14.0 | 18.2 | 23.4
King William County	19.3 | 22.5 | 26.0
Lancaster County	18.6 | 21.8 | 25.3
Mathews County	19.6 | 22.8 | 26.3
Middlesex County	17.4 | 19.8 | 22.5
Northumberland County	12.1 | 16.2 | 21.3
Richmond County	15.4 | 18.7 | 22.5
Westmoreland County	18.5 | 21.5 | 24.8

% incidence rate

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

3+ adverse childhood experiences
Norfolk,Portsmouth,Chesapeake,VA Beach,W. Tidewater HDs

Location	LCB	Point	UCB
Chesapeake City	16.6	18.4	20.4
Norfolk City	27.6	30.6	33.8
Isle of Wight County	16.5	19.4	22.7
Southampton County	18.1	20.7	23.5
Franklin City	14.0	19.2	25.8
Suffolk City	20.1	22.6	25.4
Virginia Beach City	21.8	23.4	25.0
Portsmouth City	30.6	33.7	37.0

% 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: 38 areas.

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

SAE estimate is inside the 95% direct Wilson CI: 128 areas.

SAE estimate is outside the 95% direct Wilson CI: 5 areas.

SAE Wilson 95% CI is fully inside the 95% direct Wilson CI: 115 areas.

SAE Wilson 95% CI partially overlaps with the 95% direct Wilson CI: 18 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 = 0.25%; med = 4.82%; max = 24.75%.

Proportion of SAE variance due to sampling error in regression coefficient estimates: min = 47.07%; med = 86.18%; max = 98.65%.

Proportion of SAE variance due to model selection: min = 0.08%; med = 7.01%; max = 51.53%.

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