



Indicator 38: Was there a time in the past 12 months when you did not take your medication as prescribed because of cost?



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Internal variable name: outc38_prescr_cost

Section 1: Definition

Definition: Was there a time in the past 12 months when you did not take your medication as prescribed because of cost? Do not include over-the-counter (OTC) medication.

Section 2: Predictive models

	Mixed, demos only	Logit, no area effects	Mixed with area covariates
	b/se	b/se	b/se
Outcome 38: Could Not Get Medicine Due To Cost			
Non-Hispanic Black vs. Non-Hispanic White	0.3870* (0.1563)	0.3778** (0.1323)	0.3778* (0.1562)
Non-Hispanic Asian vs. Non-Hispanic White	-0.0396 (0.4956)	0.0794 (0.4432)	0.0794 (0.5044)
Non-Hispanic Other vs. Non-Hispanic White	0.4768* (0.2121)	0.5056* (0.2330)	0.5056* (0.2154)
Hispanic vs. Non-Hispanic White	0.5016* (0.2378)	0.5814* (0.2391)	0.5814* (0.2402)
Female	0.6959*** (0.1081)	0.6730*** (0.1187)	0.6730*** (0.1100)
Age 18-24 vs. 65+	0.4040 (0.2751)	0.4162 (0.2827)	0.4162 (0.2745)
Age 25-34 vs. 65+	1.1094*** (0.2049)	1.1258*** (0.2031)	1.1258*** (0.2016)
Age 35-44 vs. 65+	1.0669*** (0.1830)	1.0741*** (0.1883)	1.0741*** (0.1829)
Age 45-54 vs. 65+	1.2874*** (0.1588)	1.2972*** (0.1630)	1.2972*** (0.1564)
Age 55-64 vs. 65+	1.0109*** (0.1879)	1.0023*** (0.1622)	1.0023*** (0.1856)
Crude mortality rate of septicemia per 10,000		0.1250 (0.0689)	0.1250* (0.0629)
% speaking English less than very well		-0.0797*** (0.0224)	-0.0797*** (0.0169)
Heart Disease hospitalization rate per 1,000		-0.0425* (0.0181)	-0.0425** (0.0132)
% living in institutionalized group quarters, total		0.0568**	0.0568**

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population		(0.0184)	(0.0169)
Myeloma Cancer Male Rate		-0.0250*	-0.0250*
		(0.0108)	(0.0099)
Non-stratified built environment domain index		0.0800	0.0800
		(0.1215)	(0.0663)
{Myeloma Cancer Male Rate}		0.0052	0.0052
interacted with {Non-stratified built environment domain index}		(0.0108)	(0.0086)
Cervix Cancer Female Rate		0.0055	0.0055
		(0.0102)	(0.0082)
{Cervix Cancer Female Rate}		-0.0053*	-0.0053*
Interacted with {% living in institutionalized group quarters, total population}		(0.0023)	(0.0020)
Intercept	-3.7131***	-3.0057***	-3.0057***
	(0.1269)	(0.3136)	(0.2650)
Area effect variance	0.0646		0.0000***
	(0.0400)		(0.0000)

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

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Section 3: Results

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Augusta County	51015	14.0%	(7.9%, 23.7%)	8.2%	(6.4%, 10.4%)
Bath County	51017	7.7%	(1.8%, 43.2%)	6.5%	(4.0%, 10.3%)
Caroline County	51033	24.3%	(9.7%, 48.9%)	11.5%	(9.7%, 13.5%)
Clarke County	51043	15.2%	(4.8%, 38.9%)	11.1%	(8.9%, 13.7%)
Culpeper County	51047	17.1%	(8.7%, 30.8%)	11.5%	(8.8%, 14.9%)
Fauquier County	51061	13.5%	(6.7%, 25.3%)	11.1%	(9.7%, 12.7%)
Frederick County	51069	2.8%	(0.9%, 8.5%)	7.2%	(5.9%, 8.9%)
Highland County	51091	0.0%	(0.0%, 87.8%)	6.9%	(4.5%, 10.4%)
King George County	51099	10.2%	(2.3%, 35.9%)	12.4%	(9.9%, 15.5%)
Madison County	51113	15.2%	(2.3%, 57.9%)	11.9%	(9.5%, 14.9%)
Orange County	51137	14.8%	(5.2%, 35.5%)	8.4%	(6.8%, 10.5%)
Page County	51139	13.7%	(2.3%, 51.9%)	9.8%	(7.8%, 12.3%)
Rappahannock County	51157	12.6%	(3.0%, 40.3%)	8.4%	(6.8%, 10.3%)
Rockbridge County	51163	0.0%	(0.0%, 15.5%)	9.3%	(7.7%, 11.3%)
Rockingham County	51165	1.1%	(0.2%, 6.2%)	6.8%	(5.5%, 8.4%)
Shenandoah County	51171	10.1%	(3.6%, 25.4%)	8.4%	(7.1%, 10.0%)
Spotsylvania County	51177	13.8%	(5.8%, 29.5%)	10.0%	(8.5%, 11.7%)
Stafford County	51179	8.4%	(4.1%, 16.3%)	9.4%	(8.3%, 10.6%)
Warren County	51187	5.6%	(2.7%, 21.9%)	8.9%	(7.3%, 10.9%)
Buena Vista City	51530	0.0%	(0.0%, 92.4%)	11.1%	(8.2%, 14.9%)
Fredericksburg City	51630	4.8%	(2.7%, 24.5%)	8.9%	(7.0%, 11.1%)
Harrisonburg City	51660	13.1%	(4.1%, 50.5%)	5.0%	(3.5%, 7.1%)
Lexington City	51678	0.0%	(0.0%, 99.4%)	9.4%	(5.9%, 14.6%)
Staunton City	51790	10.8%	(2.0%, 52.6%)	8.6%	(6.9%, 10.8%)
Waynesboro City	51820	0.0%	(0.0%, 38.4%)	5.9%	(4.3%, 7.9%)
Winchester City	51840	7.5%	(1.2%, 35.9%)	7.9%	(5.8%, 10.6%)

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Albemarle County	51003	13.5%	(6.7%, 25.2%)	9.6%	(8.5%, 10.7%)
Alleghany County	51005	12.6%	(4.4%, 31.4%)	6.8%	(4.4%, 10.2%)
Amherst County	51009	6.1%	(1.2%, 25.7%)	7.3%	(5.9%, 9.1%)
Appomattox County	51011	12.3%	(3.6%, 34.7%)	10.3%	(7.7%, 13.8%)
Arlington City	51013	10.3%	(3.2%, 28.3%)	10.2%	(8.2%, 12.7%)
Bedford County	51019	7.5%	(3.2%, 16.7%)	7.4%	(5.7%, 9.6%)
Botetourt County	51023	8.2%	(3.1%, 20.1%)	7.9%	(5.8%, 10.6%)
Campbell County	51031	0.0%	(0.0%, 10.1%)	10.2%	(8.7%, 12.0%)
Craig County	51045	0.0%	(0.0%, 73.6%)	6.5%	(2.7%, 14.7%)
Fairfax County	51059	5.0%	(2.9%, 8.5%)	5.5%	(4.6%, 6.7%)
Fluvanna County	51065	14.5%	(2.9%, 49.2%)	9.1%	(6.5%, 12.4%)
Greene County	51079	6.1%	(1.0%, 30.4%)	10.5%	(7.6%, 14.2%)
Loudoun County	51107	6.8%	(3.3%, 13.2%)	7.4%	(6.3%, 8.7%)
Louisa County	51109	13.3%	(4.8%, 31.9%)	7.8%	(6.1%, 10.0%)
Nelson County	51125	13.0%	(3.4%, 38.7%)	10.6%	(7.9%, 14.1%)
Prince William County	51153	7.6%	(4.5%, 12.5%)	7.2%	(6.1%, 8.4%)
Roanoke County	51161	11.0%	(5.4%, 21.1%)	9.6%	(8.3%, 11.0%)
Alexandria City	51510	15.7%	(7.1%, 31.1%)	9.1%	(7.2%, 11.4%)
Charlottesville City	51540	10.1%	(2.2%, 36.3%)	10.2%	(6.3%, 15.9%)
Covington City	51580	0.0%	(0.0%, 99.4%)	1.9%	(0.5%, 7.5%)
Fairfax City	51600	8.5%	(2.2%, 28.1%)	7.3%	(4.7%, 11.1%)
Falls Church City	51610	39.6%	(5.0%, 89.0%)	10.9%	(3.2%, 31.5%)
Lynchburg City	51680	11.1%	(4.6%, 24.8%)	11.4%	(9.5%, 13.7%)
Manassas City	51683	3.8%	(1.6%, 37.4%)	3.8%	(2.6%, 5.6%)
Manassas Park City	51685	0.0%	(-0.0%, 96.8%)	3.1%	(1.7%, 5.8%)
Salem City	51775	15.4%	(3.3%, 48.9%)	7.2%	(5.7%, 9.1%)

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Bland County	51021	0.0%	(0.0%, 42.3%)	4.2%	(1.4%, 11.8%)
Buchanan County	51027	17.0%	(8.3%, 31.9%)	12.4%	(9.8%, 15.4%)
Carroll County	51035	6.3%	(1.2%, 27.1%)	12.9%	(10.3%, 15.9%)
Dickenson County	51051	26.9%	(12.8%, 47.9%)	12.7%	(9.5%, 16.7%)
Floyd County	51063	9.7%	(3.3%, 25.1%)	6.7%	(4.5%, 9.8%)
Franklin County	51067	11.7%	(5.2%, 24.2%)	8.7%	(7.3%, 10.4%)
Giles County	51071	14.2%	(4.6%, 36.1%)	8.8%	(6.5%, 11.8%)
Grayson County	51077	6.9%	(3.4%, 29.8%)	9.0%	(6.2%, 12.8%)
Henry County	51089	7.0%	(3.2%, 14.6%)	9.3%	(8.0%, 10.7%)
Lee County	51105	18.6%	(6.6%, 42.6%)	12.7%	(9.9%, 16.2%)
Montgomery County	51121	11.0%	(5.4%, 21.0%)	9.1%	(7.9%, 10.6%)
Patrick County	51141	11.8%	(3.7%, 32.2%)	16.5%	(12.5%, 21.5%)
Pittsylvania County	51143	13.6%	(7.8%, 22.7%)	11.4%	(9.6%, 13.5%)
Pulaski County	51155	6.7%	(3.6%, 19.0%)	7.3%	(5.4%, 9.7%)
Russell County	51167	18.1%	(7.0%, 39.5%)	12.4%	(9.2%, 16.6%)
Scott County	51169	13.6%	(6.2%, 27.3%)	10.8%	(7.2%, 16.0%)
Smyth County	51173	11.2%	(4.0%, 27.4%)	12.8%	(10.8%, 15.2%)
Tazewell County	51185	11.3%	(4.4%, 26.1%)	10.6%	(8.9%, 12.6%)
Washington County	51191	18.8%	(8.3%, 37.2%)	14.8%	(12.0%, 18.1%)
Wise County	51195	19.8%	(10.1%, 35.4%)	12.5%	(9.2%, 16.9%)
Wythe County	51197	12.3%	(5.2%, 26.5%)	11.2%	(8.5%, 14.4%)
Bristol City	51520	10.2%	(2.1%, 53.5%)	17.0%	(11.4%, 24.6%)
Danville City	51590	20.3%	(6.0%, 50.4%)	13.0%	(9.7%, 17.3%)
Galax City	51640	0.0%	(0.0%, 70.9%)	5.4%	(3.5%, 8.4%)
Martinsville City	51690	12.9%	(1.7%, 55.2%)	16.0%	(9.5%, 25.7%)
Norton City	51720	0.0%	(0.0%, 69.6%)	12.2%	(6.1%, 22.9%)
Radford City	51750	0.0%	(-0.0%, 62.2%)	9.3%	(7.2%, 12.0%)
Roanoke City	51770	12.5%	(7.1%, 20.9%)	8.6%	(6.6%, 11.1%)

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Amelia County	51007	0.0%	(0.0%, 26.6%)	6.5%	(4.5%, 9.2%)
Brunswick County	51025	22.8%	(8.2%, 49.2%)	14.1%	(10.5%, 18.6%)
Buckingham County	51029	25.9%	(8.9%, 55.5%)	10.2%	(3.5%, 26.2%)
Charles City County	51036	4.2%	(1.7%, 44.6%)	5.8%	(3.3%, 10.0%)
Charlotte County	51037	8.4%	(1.5%, 35.5%)	10.1%	(6.6%, 15.1%)
Chesterfield County	51041	9.2%	(6.0%, 13.8%)	9.1%	(8.1%, 10.2%)
Cumberland County	51049	8.9%	(4.7%, 35.0%)	11.0%	(8.7%, 13.7%)
Dinwiddie County	51053	14.3%	(3.6%, 42.5%)	9.4%	(7.0%, 12.6%)
Goochland County	51075	7.1%	(1.1%, 34.0%)	12.0%	(9.3%, 15.4%)
Greensville County	51081	15.0%	(4.0%, 42.6%)	33.3%	(18.1%, 52.9%)
Halifax County	51083	5.1%	(2.9%, 14.5%)	8.0%	(6.1%, 10.3%)
Hanover County	51085	7.7%	(3.6%, 15.8%)	9.7%	(8.5%, 11.1%)
Henrico County	51087	6.6%	(4.1%, 10.7%)	8.3%	(7.5%, 9.3%)
Lunenburg County	51111	31.6%	(10.9%, 63.4%)	10.9%	(7.7%, 15.3%)
Mecklenburg County	51117	2.5%	(1.8%, 13.2%)	8.0%	(5.6%, 11.4%)
New Kent County	51127	5.2%	(0.8%, 26.4%)	6.3%	(3.9%, 9.9%)
Nottoway County	51135	2.4%	(1.2%, 25.9%)	1.2%	(0.1%, 8.7%)
Powhatan County	51145	0.0%	(-0.0%, 32.8%)	7.5%	(3.4%, 15.5%)
Prince Edward County	51147	7.1%	(1.8%, 23.9%)	8.3%	(5.8%, 11.7%)
Prince George County	51149	5.0%	(2.9%, 19.0%)	6.4%	(3.4%, 11.9%)
Surry County	51181	0.0%	(0.0%, 56.6%)	15.3%	(7.5%, 28.7%)
Sussex County	51183	23.3%	(5.5%, 61.4%)	24.1%	(15.2%, 36.0%)
Colonial Heights City	51570	9.9%	(1.9%, 49.5%)	5.9%	(3.9%, 8.9%)
Emporia City	51595	0.0%	(0.0%, 68.6%)	10.4%	(5.4%, 19.2%)
Hopewell City	51670	5.2%	(2.8%, 29.6%)	6.7%	(4.9%, 9.2%)
Petersburg City	51730	7.7%	(2.5%, 21.0%)	6.0%	(3.9%, 9.0%)
Richmond City	51760	7.9%	(4.5%, 13.5%)	8.8%	(6.2%, 12.3%)

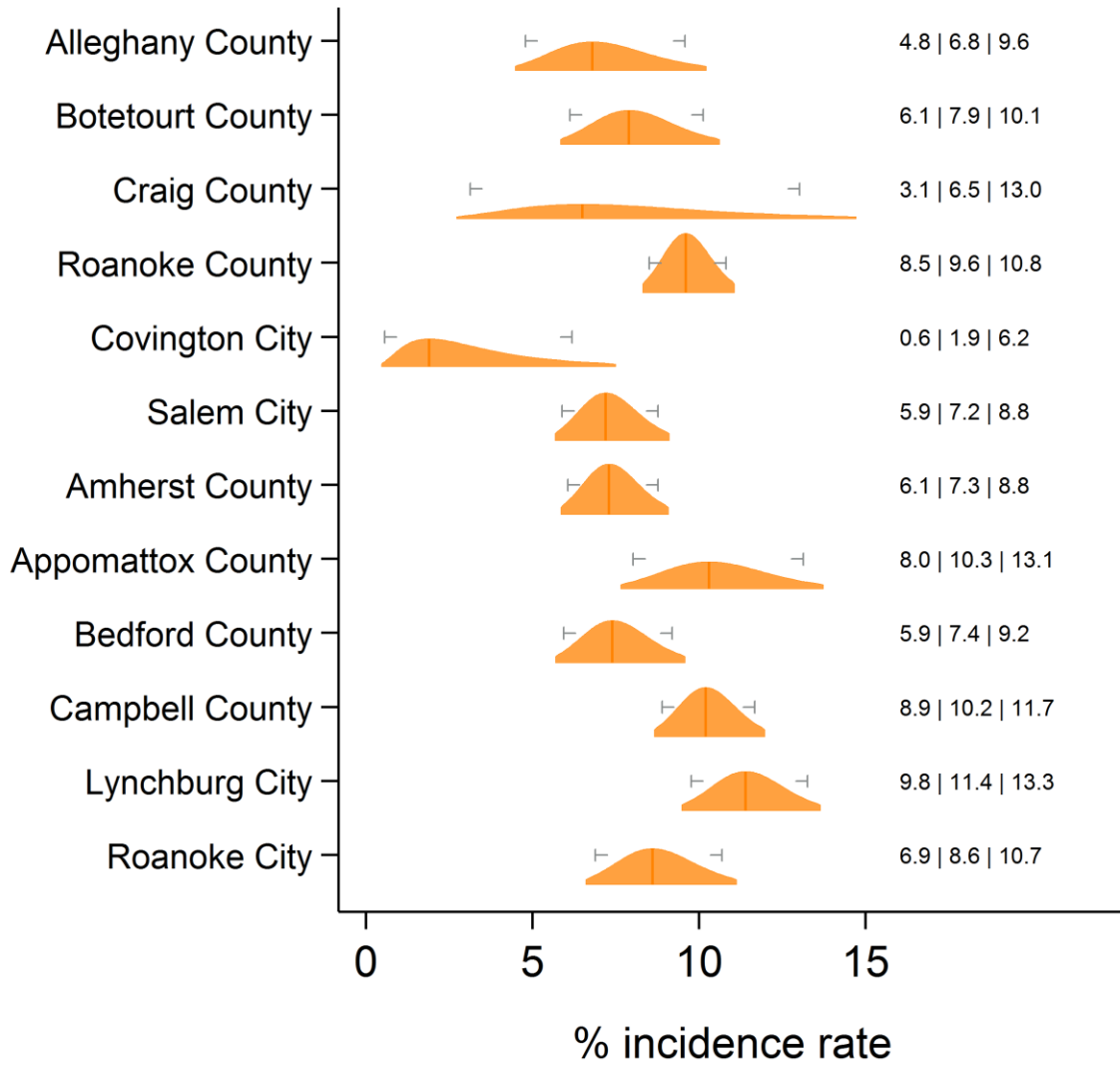
Indicator 38: Was there a time in the past 12 months when you did not take your medication as prescribed because of cost?



County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Accomack County	51001	9.7%	(3.2%, 25.7%)	4.6%	(2.7%, 8.0%)
Essex County	51057	2.9%	(1.3%, 30.9%)	8.2%	(5.8%, 11.6%)
Gloucester County	51073	12.0%	(3.9%, 31.3%)	8.5%	(6.9%, 10.5%)
Isle of Wight County	51093	8.1%	(4.1%, 20.9%)	11.9%	(10.2%, 13.8%)
James City County	51095	6.8%	(2.4%, 17.4%)	10.7%	(8.5%, 13.3%)
King and Queen County	51097	6.9%	(2.0%, 66.5%)	3.0%	(1.2%, 7.4%)
King William County	51101	4.1%	(2.1%, 30.9%)	12.8%	(10.0%, 16.2%)
Lancaster County	51103	25.0%	(5.6%, 65.3%)	8.8%	(6.8%, 11.2%)
Mathews County	51115	4.4%	(1.2%, 26.0%)	9.7%	(7.4%, 12.6%)
Middlesex County	51119	14.1%	(1.8%, 59.1%)	10.0%	(7.6%, 13.2%)
Northampton County	51131	12.0%	(3.4%, 34.4%)	11.2%	(6.9%, 17.6%)
Northumberland County	51133	2.6%	(1.2%, 25.9%)	8.8%	(6.4%, 11.9%)
Richmond County	51159	13.0%	(4.3%, 32.8%)	14.9%	(9.1%, 23.4%)
Southampton County	51175	20.8%	(5.0%, 56.9%)	12.9%	(9.9%, 16.6%)
Westmoreland County	51193	2.4%	(1.2%, 23.7%)	7.4%	(5.4%, 10.1%)
York County	51199	9.3%	(3.1%, 24.9%)	8.7%	(7.3%, 10.5%)
Chesapeake City	51550	7.1%	(4.0%, 12.4%)	10.8%	(9.5%, 12.2%)
Franklin City	51620	11.1%	(5.8%, 27.9%)	6.5%	(4.5%, 9.5%)
Hampton City	51650	10.9%	(5.3%, 21.1%)	11.2%	(9.7%, 12.8%)
Newport News City	51700	11.4%	(6.4%, 19.5%)	10.5%	(9.2%, 12.0%)
Norfolk City	51710	6.9%	(3.9%, 12.0%)	8.9%	(7.7%, 10.3%)
Poquoson City	51735	0.0%	(0.0%, 61.8%)	12.3%	(9.6%, 15.5%)
Portsmouth City	51740	6.5%	(3.2%, 12.5%)	12.0%	(10.4%, 13.7%)
Suffolk City	51800	8.6%	(3.7%, 18.7%)	10.2%	(8.4%, 12.2%)
Virginia Beach City	51810	8.0%	(5.1%, 12.3%)	10.0%	(8.8%, 11.5%)
Williamsburg City	51830	0.0%	(0.0%, 55.7%)	5.5%	(2.7%, 10.9%)

Section 4: Graphical representation

Could not afford prescriptions in past 12 months Alleghany, Roanoke and Central Virginia HDs



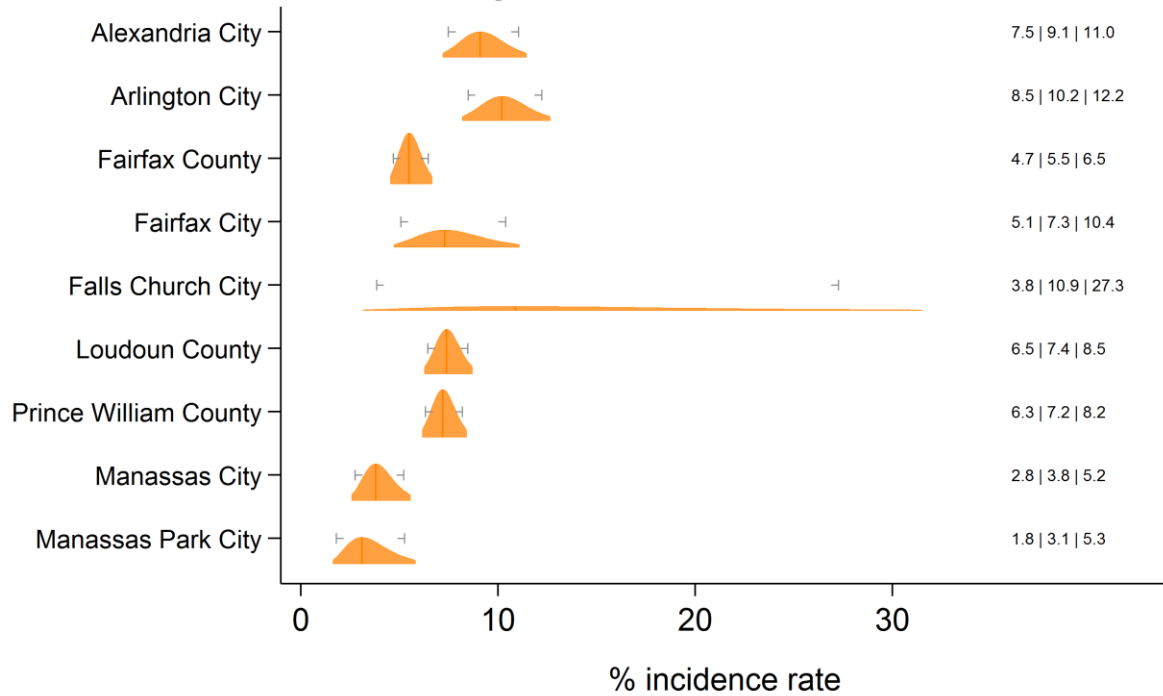
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
 Gray markers: 90% confidence interval



Indicator 38: Was there a time in the past 12 months when you did not take your medication as prescribed because of cost?



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



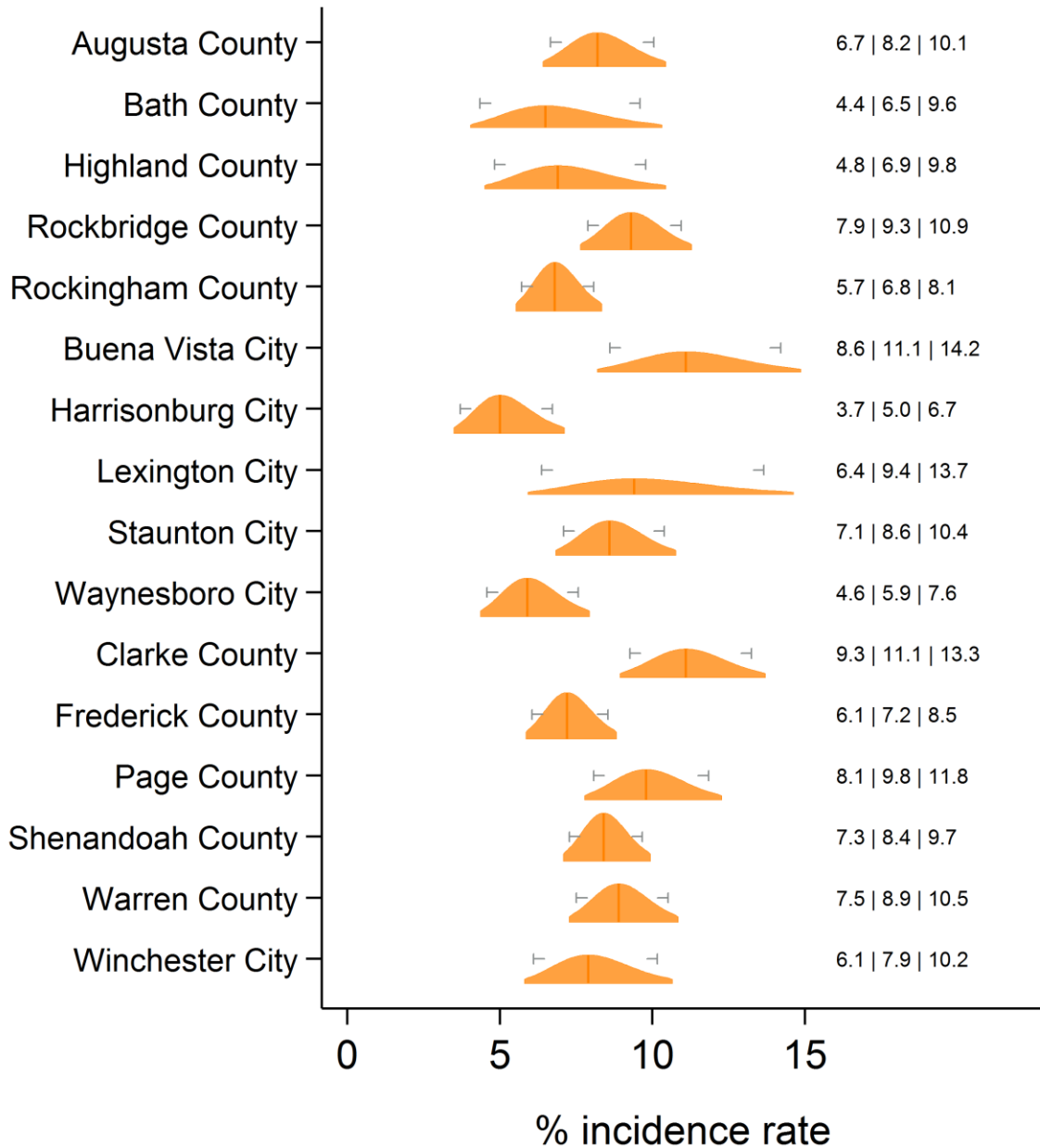
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval



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



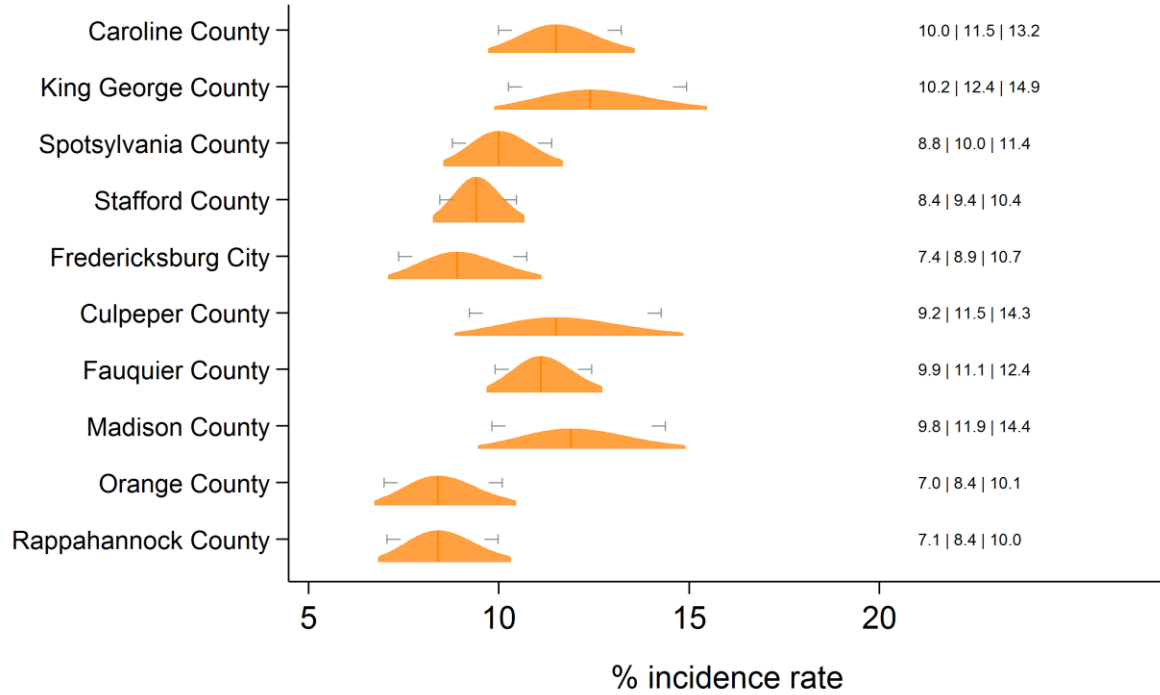
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
 Gray markers: 90% confidence interval



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



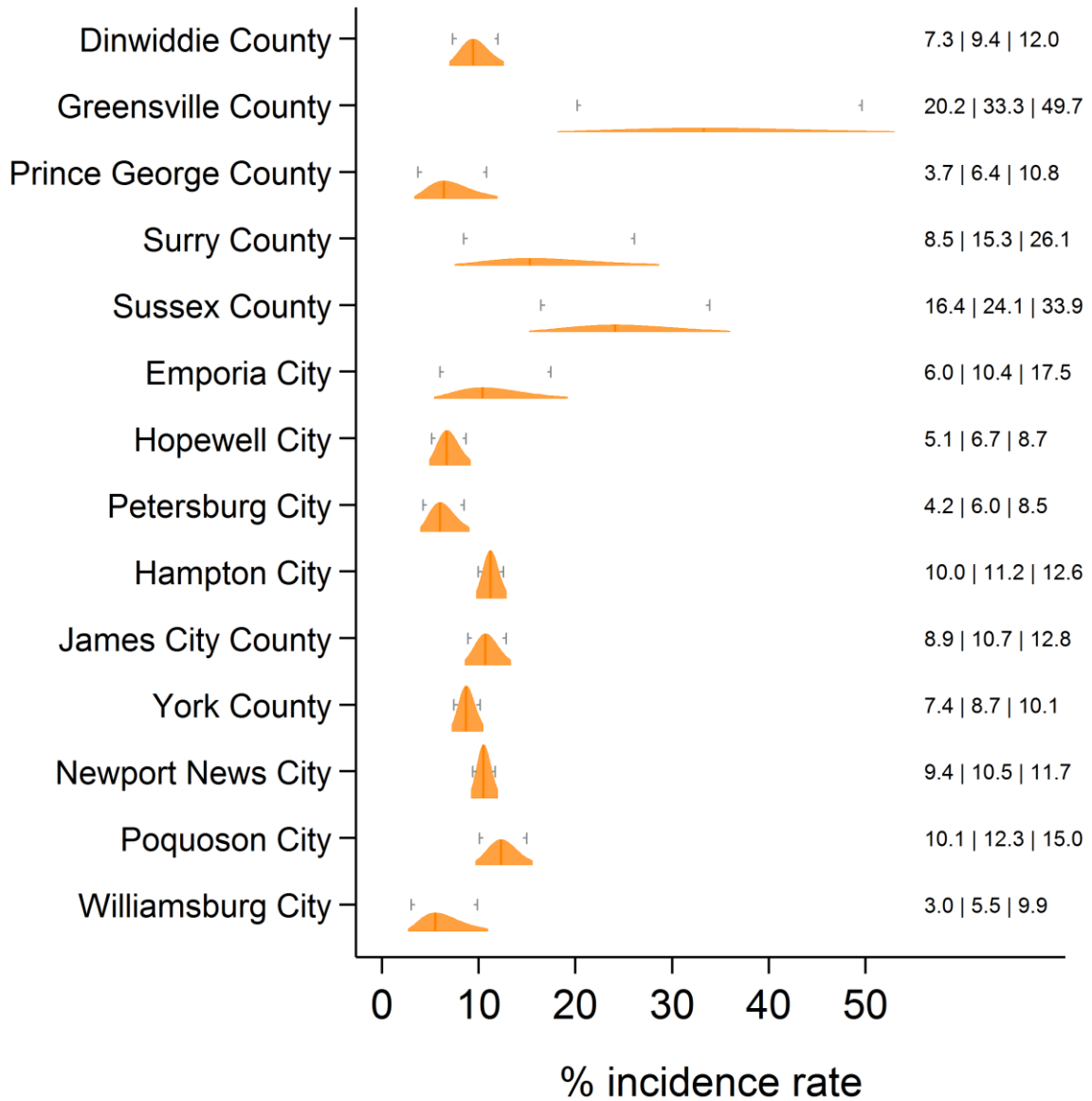
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
 Gray markers: 90% confidence interval



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



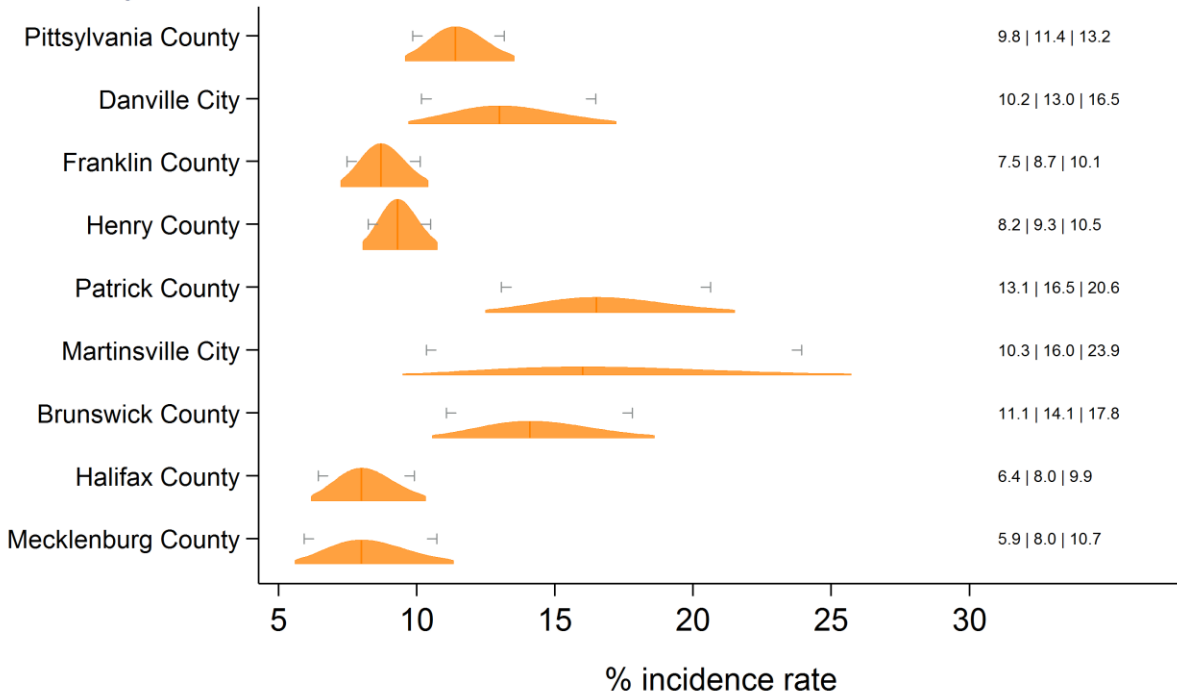
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
 Gray markers: 90% confidence interval



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



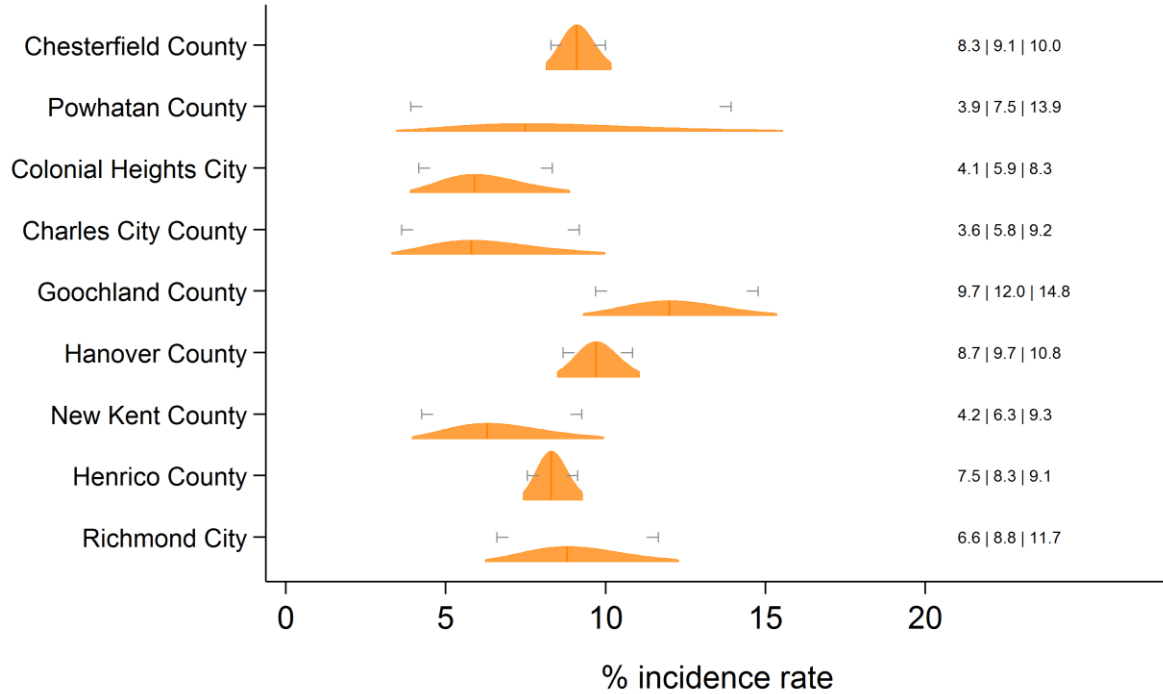
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
 Gray markers: 90% confidence interval



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



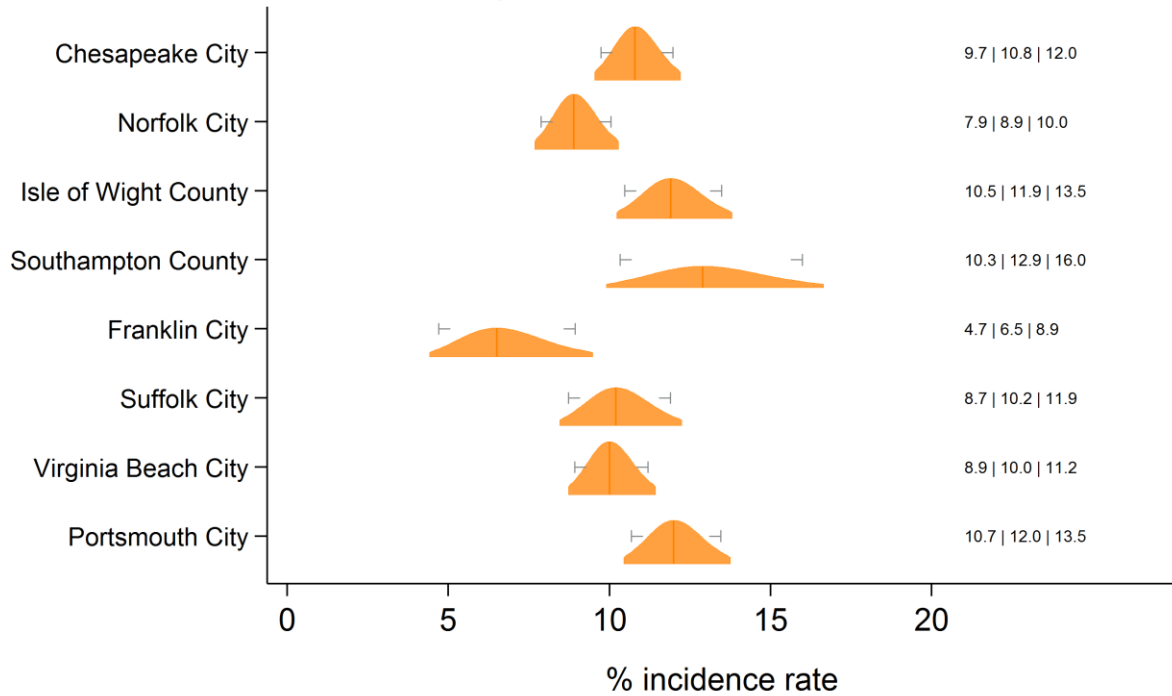
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
 Gray markers: 90% confidence interval



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



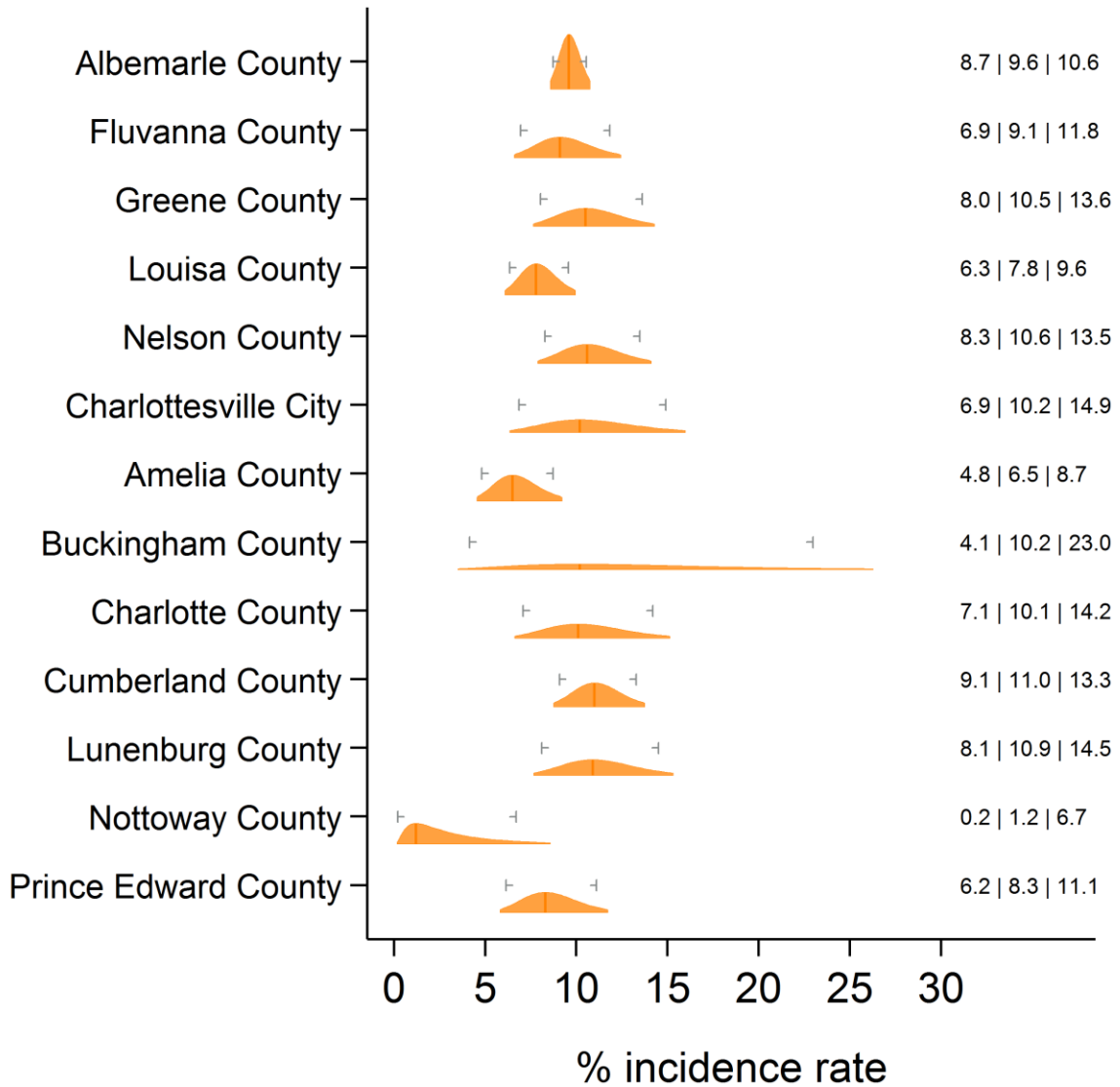
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval



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



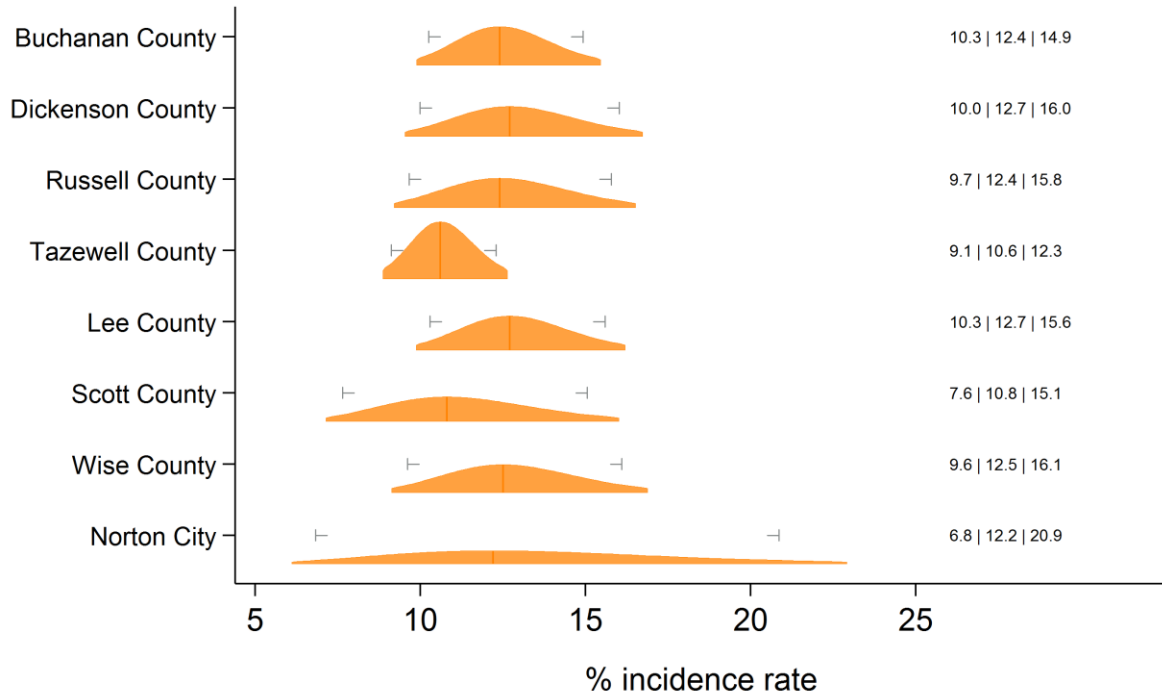
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
 Gray markers: 90% confidence interval



Indicator 38: Was there a time in the past 12 months when you did not take your medication as prescribed because of cost?



Could not afford prescriptions in past 12 months Cumberland Plateau and Lenowisco HDs



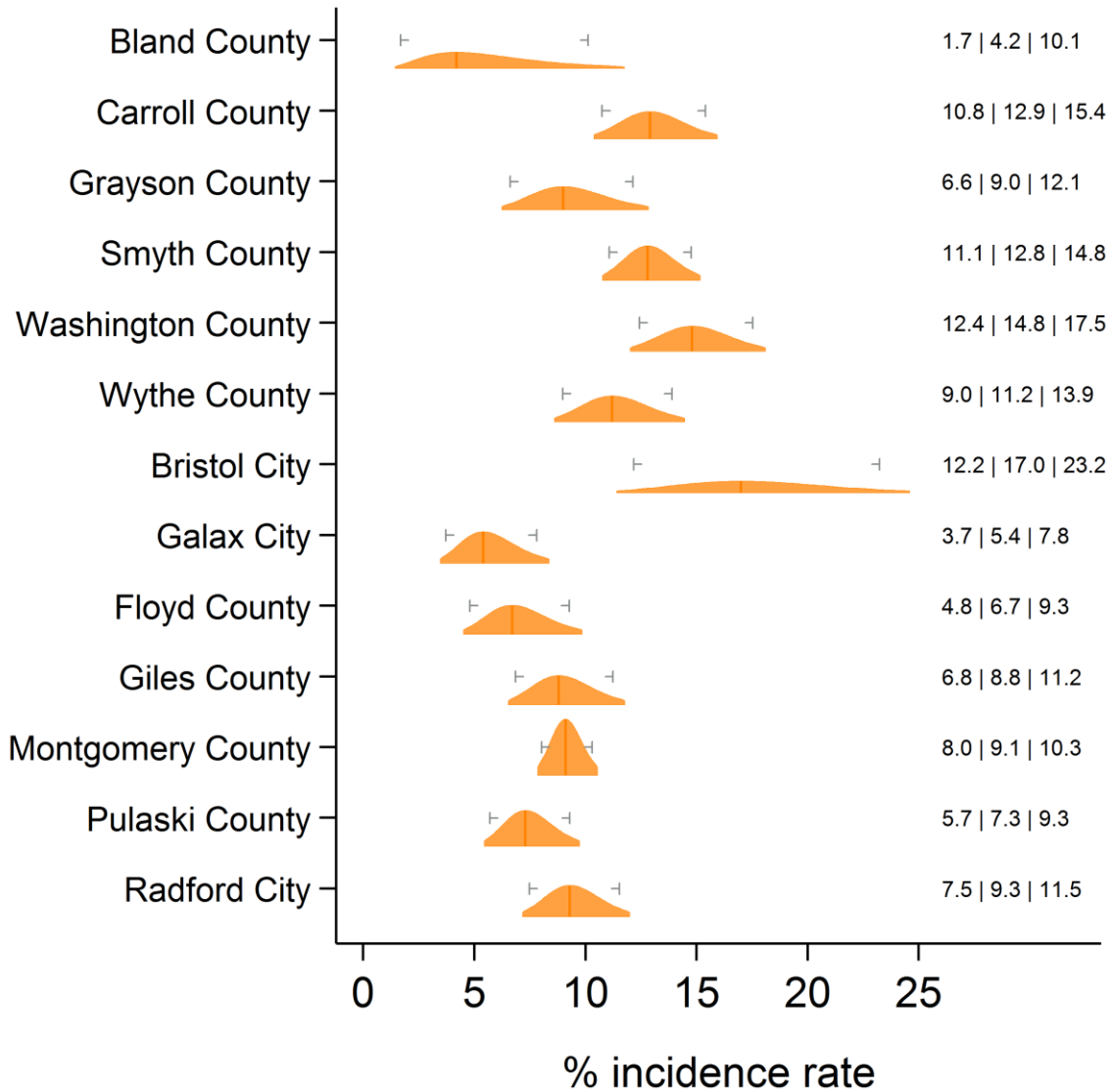
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
 Gray markers: 90% confidence interval



Indicator 38: Was there a time in the past 12 months when you did not take your medication as prescribed because of cost?



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



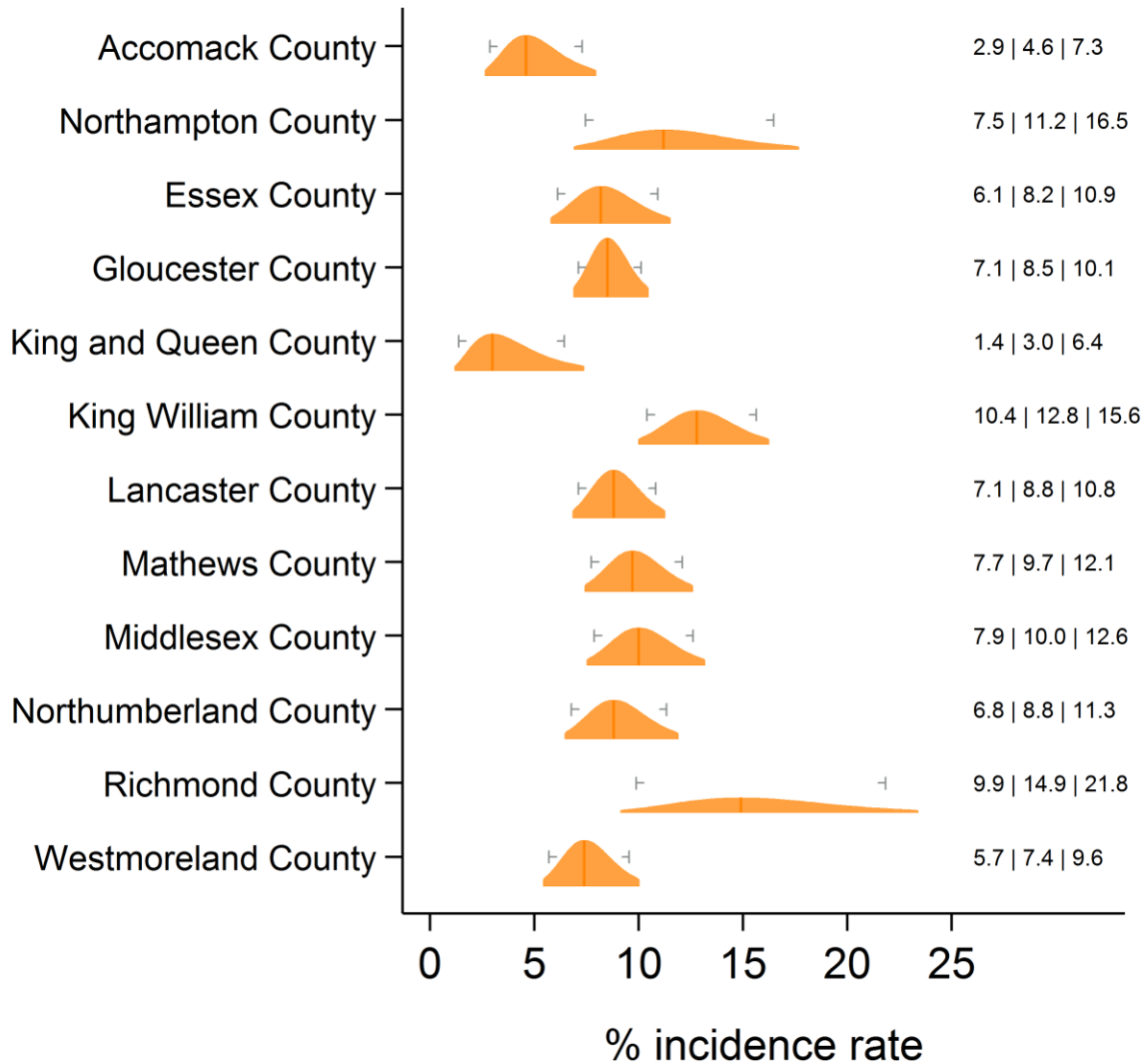
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
 Gray markers: 90% confidence interval



Indicator 38: Was there a time in the past 12 months when you did not take your medication as prescribed because of cost?



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



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



Indicator 38: Was there a time in the past 12 months when you did not take your medication as prescribed because of cost?



Section 5: Additional diagnostics

Direct estimate is inside the 95% SAE Wilson CI: 47 areas.

Direct estimate is outside the 95% SAE Wilson CI: 86 areas.

SAE estimate is inside the 95% direct Wilson CI: 129 areas.

SAE estimate is outside the 95% direct Wilson CI: 3 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 than the direct standard error: 113 areas.

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

Direct standard error is zero: 19 areas.

Proportion of SAE variance due to ACS sampling error: min = 0.03%; med = 1.88%; max = 9.68%.

Proportion of SAE variance to sampling error in regression coefficient estimates: min = 47.59%; med = 94.29%; max = 98.90%.

Proportion of SAE variance due to model selection: min = 0.14%; med = 2.92%; max = 52.38%.