



Internal variable name: outc13_arthritis

Section 1: Definition

Definition: (Ever told) you have some form of arthritis, rheumatoid arthritis, gout, lupus, or

fibromyalgia?

Section 2: Predictive models

| | Mixed, demos | Logit, no area | Mixed with |
|---|--------------|----------------|------------|
| | only | effects | area |
| | | | covariates |
| | b/se | b/se | b/se |
| Outcome 13: Ever had some form of arthritis, | | | |
| rheumatoid arthritis, gout, lupus, or fibromyalgia | | | |
| Non-Hispanic Black vs. Non-Hispanic White | -0.0211 | 0.0077 | 0.0078 |
| | (0.0971) | (0.0895) | (0.0958) |
| Non-Hispanic Asian vs. Non-Hispanic White | -0.3445 | -0.2327 | -0.2326 |
| | (0.2187) | (0.2435) | (0.2235) |
| Non-Hispanic Other vs. Non-Hispanic White | 0.2124 | 0.2364 | 0.2364 |
| | (0.1335) | (0.1725) | (0.1360) |
| Hispanic vs. Non-Hispanic White | -0.7367*** | -0.6608** | -0.6608*** |
| | (0.1874) | (0.2148) | (0.1786) |
| Female | 0.3728*** | 0.3677*** | 0.3677*** |
| | (0.0582) | (0.0651) | (0.0582) |
| Age 18-24 vs. 65+ | -3.6002*** | -3.5830*** | -3.5827*** |
| | (0.3464) | (0.2895) | (0.3449) |
| Age 25-34 vs. 65+ | -2.6753*** | -2.6533*** | -2.6532*** |
| | (0.1606) | (0.1557) | (0.1607) |
| Age 35-44 vs. 65+ | -1.7826*** | -1.7561*** | -1.7561*** |
| | (0.1539) | (0.1131) | (0.1546) |
| Age 45-54 vs. 65+ | -1.1164*** | -1.0854*** | -1.0854*** |
| | (0.0813) | (0.0870) | (0.0823) |
| Age 55-64 vs. 65+ | -0.4624*** | -0.4551*** | -0.4551*** |
| | (0.0873) | (0.0762) | (0.0858) |
| Crude mortality rate of septicemia per 10,000 | | 0.1836 | 0.1837 |
| | | (0.6238) | (0.6631) |
| Crude mortality rate of chronic lower respiratory per | | 0.0488* | 0.0488* |
| 10,000 | | | |
| | | (0.0203) | (0.0220) |





| % HHs with children: non family | | -0.1438** | -0.1438** |
|--|----------|------------|------------|
| | | (0.0466) | (0.0443) |
| % moved past year, population 1+ years old | | -0.0070 | -0.0070 |
| | | (0.0064) | (0.0062) |
| Historic SAE: mammogram screening | | -0.0345*** | -0.0345*** |
| | | (0.0089) | (0.0094) |
| Historic SAE: current smoking rate | | 0.0431* | 0.0431 |
| | | (0.0219) | (0.0228) |
| {Historic SAE: current smoking rate} | | -0.0015 | -0.0015 |
| interacted with {Crude mortality rate of septicemia | | (0.0077) | (0.0082) |
| per 10,000} | | | |
| Testis Cancer Male Rate | | -0.0193 | -0.0193 |
| | | (0.0119) | (0.0128) |
| Crude mortality rate of nephritis nephrotic syndrome | | 0.0811* | 0.0811* |
| per 10,000 | | | |
| | | (0.0382) | (0.0357) |
| {Testis Cancer Male Rate} | | 0.0037 | 0.0037 |
| interacted with {Crude mortality rate of nephritis | | (0.0033) | (0.0034) |
| nephrotic syndrome per 10,000} | | | |
| Intercept | 0.0197 | -1.3841 | -1.3843 |
| | (0.0768) | (1.7821) | (1.8066) |
| Area effect variance | 0.0816* | | 0.0000 |
| | (0.0403) | | (0.0000) |

Number of alternative models used to estimate model error = 5.





Section 3: Results

| County name | County FIPS | Direct | Direct 95% CI | SAE | SAE 95% CI |
|---------------------|-------------|----------|----------------|-----------|----------------|
| | | estimate | | composite | |
| Augusta County | 51015 | 32.0% | (24.1%, 41.1%) | 35.4% | (32.1%, 38.9%) |
| Bath County | 51017 | 45.0% | (17.7%, 75.8%) | 35.2% | (27.2%, 44.2%) |
| Caroline County | 51033 | 35.6% | (18.6%, 57.2%) | 27.6% | (24.6%, 30.8%) |
| Clarke County | 51043 | 6.0% | (3.0%, 27.0%) | 22.1% | (18.8%, 25.8%) |
| Culpeper County | 51047 | 29.9% | (18.7%, 44.3%) | 27.9% | (24.7%, 31.3%) |
| Fauquier County | 51061 | 38.3% | (26.9%, 51.0%) | 30.5% | (27.2%, 34.1%) |
| Frederick County | 51069 | 18.7% | (12.6%, 26.9%) | 24.9% | (22.5%, 27.4%) |
| Highland County | 51091 | 27.8% | (2.1%, 87.2%) | 15.7% | (9.9%, 23.9%) |
| King George County | 51099 | 32.1% | (13.6%, 58.8%) | 25.2% | (20.8%, 30.2%) |
| Madison County | 51113 | 11.4% | (5.8%, 32.4%) | 29.2% | (25.8%, 32.7%) |
| Orange County | 51137 | 20.1% | (11.0%, 33.7%) | 28.6% | (24.4%, 33.2%) |
| Page County | 51139 | 27.5% | (10.2%, 55.8%) | 28.9% | (24.2%, 34.1%) |
| Rappahannock County | 51157 | 27.2% | (10.2%, 55.2%) | 22.7% | (18.8%, 27.2%) |
| Rockbridge County | 51163 | 43.5% | (25.3%, 63.6%) | 41.8% | (37.8%, 45.8%) |
| Rockingham County | 51165 | 24.2% | (16.1%, 34.7%) | 25.8% | (23.4%, 28.4%) |
| Shenandoah County | 51171 | 28.1% | (16.0%, 44.5%) | 26.9% | (23.9%, 30.2%) |
| Spotsylvania County | 51177 | 19.3% | (12.2%, 29.4%) | 20.3% | (18.1%, 22.6%) |
| Stafford County | 51179 | 19.9% | (13.5%, 28.3%) | 20.5% | (18.6%, 22.6%) |
| Warren County | 51187 | 19.3% | (10.8%, 36.3%) | 31.3% | (28.2%, 34.6%) |
| Buena Vista City | 51530 | 0.0% | (-0.0%, 89.6%) | 32.7% | (27.5%, 38.5%) |
| Fredericksburg City | 51630 | 30.5% | (13.5%, 55.3%) | 19.6% | (15.6%, 24.4%) |
| Harrisonburg City | 51660 | 5.2% | (2.4%, 38.6%) | 17.2% | (13.6%, 21.4%) |
| Lexington City | 51678 | 0.0% | (0.0%, 99.4%) | 32.6% | (24.8%, 41.5%) |
| Staunton City | 51790 | 23.6% | (5.1%, 64.0%) | 31.5% | (29.1%, 34.0%) |
| Waynesboro City | 51820 | 19.9% | (5.6%, 51.3%) | 30.3% | (27.6%, 33.1%) |
| Winchester City | 51840 | 22.1% | (8.9%, 45.1%) | 23.2% | (19.0%, 28.1%) |





| County name | County FIPS | Direct | Direct 95% CI | SAE | SAE 95% CI |
|-----------------------|-------------|----------|----------------|-----------|----------------|
| | - | estimate | | composite | |
| Albemarle County | 51003 | 24.5% | (16.9%, 34.2%) | 20.8% | (18.4%, 23.5%) |
| Alleghany County | 51005 | 38.8% | (22.1%, 58.6%) | 40.9% | (33.7%, 48.6%) |
| Amherst County | 51009 | 33.9% | (18.5%, 53.8%) | 32.8% | (30.3%, 35.4%) |
| Appomattox County | 51011 | 14.9% | (6.9%, 35.6%) | 25.5% | (19.0%, 33.1%) |
| Arlington City | 51013 | 14.5% | (9.9%, 20.8%) | 19.1% | (16.7%, 21.7%) |
| Bedford County | 51019 | 26.7% | (18.0%, 37.7%) | 28.3% | (24.7%, 32.2%) |
| Botetourt County | 51023 | 35.9% | (23.6%, 50.5%) | 32.7% | (29.7%, 35.9%) |
| Campbell County | 51031 | 33.2% | (20.5%, 49.0%) | 26.3% | (23.8%, 29.0%) |
| Craig County | 51045 | 0.0% | (0.0%, 73.6%) | 40.7% | (34.8%, 46.9%) |
| Fairfax County | 51059 | 23.8% | (19.3%, 28.9%) | 20.2% | (17.8%, 22.8%) |
| Fluvanna County | 51065 | 37.9% | (18.0%, 62.9%) | 24.0% | (20.5%, 27.9%) |
| Greene County | 51079 | 16.9% | (7.1%, 41.1%) | 25.3% | (21.4%, 29.7%) |
| Loudoun County | 51107 | 16.4% | (12.0%, 22.0%) | 20.6% | (17.3%, 24.4%) |
| Louisa County | 51109 | 36.6% | (21.4%, 55.1%) | 26.8% | (23.9%, 29.9%) |
| Nelson County | 51125 | 16.8% | (6.0%, 39.0%) | 29.9% | (25.5%, 34.7%) |
| Prince William County | 51153 | 16.8% | (12.6%, 21.9%) | 16.8% | (15.4%, 18.4%) |
| Roanoke County | 51161 | 24.9% | (18.7%, 32.5%) | 29.3% | (27.3%, 31.5%) |
| Alexandria City | 51510 | 16.1% | (10.0%, 24.8%) | 17.3% | (15.8%, 19.0%) |
| Charlottesville City | 51540 | 11.8% | (4.0%, 37.7%) | 16.5% | (12.5%, 21.5%) |
| Covington City | 51580 | 0.0% | (0.0%, 99.4%) | 50.9% | (36.9%, 64.8%) |
| Fairfax City | 51600 | 15.4% | (9.5%, 23.9%) | 18.7% | (16.2%, 21.5%) |
| Falls Church City | 51610 | 2.5% | (0.8%, 63.4%) | 21.7% | (18.3%, 25.6%) |
| Lynchburg City | 51680 | 18.2% | (10.1%, 30.7%) | 21.0% | (18.1%, 24.1%) |
| Manassas City | 51683 | 26.4% | (8.7%, 57.4%) | 20.3% | (18.1%, 22.6%) |
| Manassas Park City | 51685 | 0.0% | (-0.0%, 96.8%) | 13.6% | (10.0%, 18.1%) |
| Salem City | 51775 | 28.3% | (8.5%, 62.5%) | 25.5% | (22.0%, 29.4%) |





| County name | County FIPS | Direct | Direct 95% CI | SAE | SAE 95% CI |
|---------------------|-------------|----------|----------------|-----------|----------------|
| | | estimate | | composite | |
| Bland County | 51021 | 40.2% | (12.9%, 75.3%) | 39.4% | (34.4%, 44.6%) |
| Buchanan County | 51027 | 57.0% | (41.0%, 71.6%) | 50.9% | (44.2%, 57.6%) |
| Carroll County | 51035 | 38.9% | (24.3%, 55.7%) | 40.7% | (36.0%, 45.5%) |
| Dickenson County | 51051 | 53.0% | (34.5%, 70.7%) | 49.3% | (41.3%, 57.2%) |
| Floyd County | 51063 | 29.1% | (15.1%, 48.7%) | 19.8% | (14.2%, 26.8%) |
| Franklin County | 51067 | 36.2% | (20.6%, 55.3%) | 33.6% | (30.9%, 36.4%) |
| Giles County | 51071 | 43.7% | (23.0%, 67.0%) | 32.8% | (27.4%, 38.7%) |
| Grayson County | 51077 | 27.2% | (12.3%, 49.9%) | 28.9% | (21.2%, 37.9%) |
| Henry County | 51089 | 48.4% | (35.9%, 61.2%) | 36.8% | (34.0%, 39.6%) |
| Lee County | 51105 | 29.4% | (16.6%, 46.6%) | 45.0% | (40.2%, 49.8%) |
| Montgomery County | 51121 | 19.9% | (13.1%, 29.1%) | 23.2% | (19.9%, 26.7%) |
| Patrick County | 51141 | 29.3% | (15.8%, 47.8%) | 33.4% | (28.8%, 38.3%) |
| Pittsylvania County | 51143 | 34.6% | (26.1%, 44.1%) | 35.5% | (32.8%, 38.4%) |
| Pulaski County | 51155 | 43.2% | (28.9%, 58.8%) | 28.3% | (25.0%, 31.9%) |
| Russell County | 51167 | 46.8% | (29.9%, 64.5%) | 43.0% | (36.7%, 49.6%) |
| Scott County | 51169 | 47.8% | (33.8%, 62.1%) | 42.0% | (38.2%, 45.9%) |
| Smyth County | 51173 | 32.6% | (19.4%, 49.3%) | 39.2% | (35.3%, 43.2%) |
| Tazewell County | 51185 | 47.9% | (34.8%, 61.3%) | 40.8% | (36.4%, 45.4%) |
| Washington County | 51191 | 40.3% | (27.9%, 54.1%) | 36.3% | (32.2%, 40.7%) |
| Wise County | 51195 | 56.9% | (43.8%, 69.1%) | 45.0% | (37.7%, 52.6%) |
| Wythe County | 51197 | 50.4% | (35.4%, 65.3%) | 42.7% | (38.6%, 46.9%) |
| Bristol City | 51520 | 26.7% | (7.8%, 64.4%) | 35.7% | (30.3%, 41.4%) |
| Danville City | 51590 | 23.7% | (10.6%, 44.8%) | 30.1% | (25.3%, 35.3%) |
| Galax City | 51640 | 35.6% | (5.2%, 86.4%) | 43.7% | (35.2%, 52.5%) |
| Martinsville City | 51690 | 0.0% | (0.0%, 53.9%) | 34.4% | (20.7%, 51.3%) |
| Norton City | 51720 | 48.4% | (7.9%, 91.2%) | 36.4% | (30.8%, 42.5%) |
| Radford City | 51750 | 0.0% | (0.0%, 56.8%) | 14.0% | (9.1%, 21.0%) |
| Roanoke City | 51770 | 27.9% | (20.0%, 37.4%) | 25.6% | (23.3%, 28.1%) |





| County name | County FIPS | Direct | Direct 95% CI | SAE | SAE 95% CI |
|-----------------------|-------------|----------|----------------|-----------|----------------|
| , | | estimate | | composite | |
| Amelia County | 51007 | 15.5% | (8.2%, 38.9%) | 29.3% | (24.7%, 34.4%) |
| Brunswick County | 51025 | 42.9% | (22.1%, 66.7%) | 34.9% | (30.9%, 39.2%) |
| Buckingham County | 51029 | 34.7% | (17.8%, 56.6%) | 29.5% | (24.8%, 34.6%) |
| Charles City County | 51036 | 80.3% | (31.7%, 97.3%) | 29.5% | (26.1%, 33.0%) |
| Charlotte County | 51037 | 40.5% | (16.3%, 70.5%) | 33.0% | (27.5%, 39.1%) |
| Chesterfield County | 51041 | 26.7% | (21.4%, 32.9%) | 25.0% | (23.0%, 27.1%) |
| Cumberland County | 51049 | 38.4% | (16.7%, 66.1%) | 38.5% | (33.9%, 43.3%) |
| Dinwiddie County | 51053 | 20.7% | (11.4%, 34.7%) | 30.0% | (26.0%, 34.4%) |
| Goochland County | 51075 | 30.1% | (14.8%, 51.6%) | 30.4% | (27.0%, 34.1%) |
| Greensville County | 51081 | 28.1% | (9.1%, 60.4%) | 41.0% | (34.0%, 48.4%) |
| Halifax County | 51083 | 29.7% | (19.4%, 42.7%) | 32.4% | (28.2%, 37.0%) |
| Hanover County | 51085 | 24.5% | (17.3%, 33.4%) | 26.6% | (24.5%, 28.8%) |
| Henrico County | 51087 | 22.7% | (18.2%, 27.9%) | 25.1% | (23.5%, 26.7%) |
| Lunenburg County | 51111 | 56.5% | (28.0%, 81.3%) | 33.2% | (27.8%, 39.1%) |
| Mecklenburg County | 51117 | 44.5% | (29.1%, 60.9%) | 35.0% | (31.2%, 38.9%) |
| New Kent County | 51127 | 32.4% | (15.0%, 56.5%) | 26.7% | (23.7%, 29.9%) |
| Nottoway County | 51135 | 14.6% | (7.6%, 36.9%) | 18.4% | (12.9%, 25.6%) |
| Powhatan County | 51145 | 46.7% | (18.7%, 76.9%) | 26.2% | (22.3%, 30.5%) |
| Prince Edward County | 51147 | 26.5% | (13.4%, 45.6%) | 35.2% | (31.4%, 39.2%) |
| Prince George County | 51149 | 24.4% | (13.7%, 39.8%) | 29.4% | (25.9%, 33.1%) |
| Surry County | 51181 | 50.4% | (15.6%, 84.9%) | 23.5% | (18.7%, 29.2%) |
| Sussex County | 51183 | 49.7% | (24.4%, 75.1%) | 37.4% | (32.6%, 42.4%) |
| Colonial Heights City | 51570 | 21.6% | (6.7%, 59.0%) | 33.4% | (26.8%, 40.8%) |
| Emporia City | 51595 | 40.9% | (6.4%, 87.5%) | 41.1% | (29.1%, 54.3%) |
| Hopewell City | 51670 | 25.6% | (11.5%, 47.7%) | 31.8% | (27.2%, 36.8%) |
| Petersburg City | 51730 | 19.1% | (10.6%, 32.0%) | 34.2% | (29.2%, 39.6%) |
| Richmond City | 51760 | 19.2% | (13.6%, 26.4%) | 20.9% | (19.1%, 22.8%) |





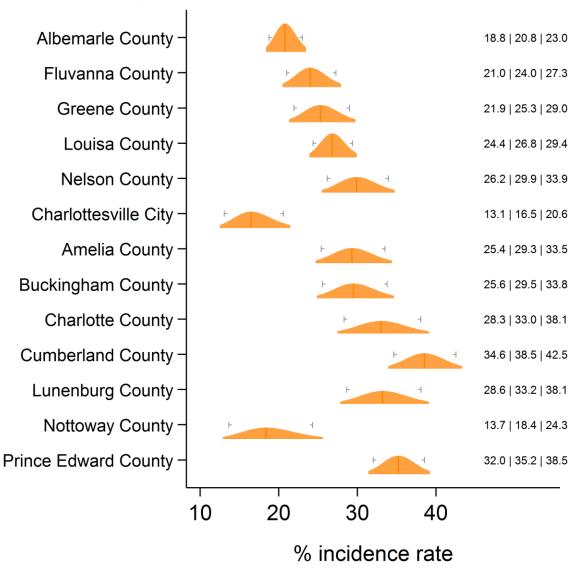
| County name | County FIPS | Direct | Direct 95% CI | SAE | SAE 95% CI |
|-----------------------|-------------|----------|----------------|-----------|----------------|
| | | estimate | | composite | |
| Accomack County | 51001 | 26.4% | (16.3%, 39.6%) | 40.6% | (30.7%, 51.3%) |
| Essex County | 51057 | 26.5% | (10.9%, 51.6%) | 36.5% | (31.8%, 41.3%) |
| Gloucester County | 51073 | 19.2% | (10.1%, 33.6%) | 33.5% | (31.3%, 35.8%) |
| Isle of Wight County | 51093 | 49.1% | (33.8%, 64.7%) | 35.5% | (32.3%, 38.8%) |
| James City County | 51095 | 26.3% | (16.5%, 39.3%) | 22.3% | (19.7%, 25.2%) |
| King and Queen County | 51097 | 39.2% | (8.5%, 81.7%) | 31.9% | (27.0%, 37.2%) |
| King William County | 51101 | 39.9% | (19.5%, 64.5%) | 39.0% | (33.7%, 44.7%) |
| Lancaster County | 51103 | 58.6% | (32.5%, 80.6%) | 38.2% | (30.3%, 46.8%) |
| Mathews County | 51115 | 22.6% | (9.6%, 44.6%) | 23.8% | (14.9%, 35.9%) |
| Middlesex County | 51119 | 59.3% | (20.8%, 89.0%) | 36.3% | (23.6%, 51.3%) |
| Northampton County | 51131 | 40.4% | (23.1%, 60.5%) | 37.4% | (27.4%, 48.5%) |
| Northumberland County | 51133 | 60.6% | (35.2%, 81.3%) | 32.8% | (23.9%, 43.2%) |
| Richmond County | 51159 | 29.8% | (16.7%, 47.4%) | 32.3% | (28.4%, 36.5%) |
| Southampton County | 51175 | 44.3% | (19.7%, 71.9%) | 32.0% | (28.8%, 35.4%) |
| Westmoreland County | 51193 | 28.5% | (12.8%, 52.1%) | 35.2% | (29.2%, 41.6%) |
| York County | 51199 | 24.3% | (15.2%, 36.6%) | 25.0% | (22.9%, 27.3%) |
| Chesapeake City | 51550 | 27.7% | (21.7%, 34.5%) | 22.9% | (21.3%, 24.5%) |
| Franklin City | 51620 | 27.9% | (15.6%, 44.9%) | 29.7% | (26.4%, 33.3%) |
| Hampton City | 51650 | 24.9% | (18.5%, 32.6%) | 23.0% | (21.3%, 24.8%) |
| Newport News City | 51700 | 23.7% | (16.8%, 32.5%) | 21.8% | (19.7%, 24.0%) |
| Norfolk City | 51710 | 27.0% | (20.5%, 34.7%) | 23.7% | (21.1%, 26.6%) |
| Poquoson City | 51735 | 41.5% | (9.9%, 82.1%) | 36.7% | (31.1%, 42.8%) |
| Portsmouth City | 51740 | 34.9% | (24.9%, 46.4%) | 30.2% | (27.6%, 33.0%) |
| Suffolk City | 51800 | 34.9% | (24.7%, 46.7%) | 25.7% | (23.4%, 28.2%) |
| Virginia Beach City | 51810 | 24.2% | (19.3%, 29.9%) | 21.3% | (19.9%, 22.9%) |
| Williamsburg City | 51830 | 40.4% | (9.3%, 81.8%) | 17.1% | (9.6%, 28.6%) |





Section 4: Graphical representation

Lifetime arthritis, gout, lupus, fibromyalgia Thomas Jefferson and Piedmont HDs

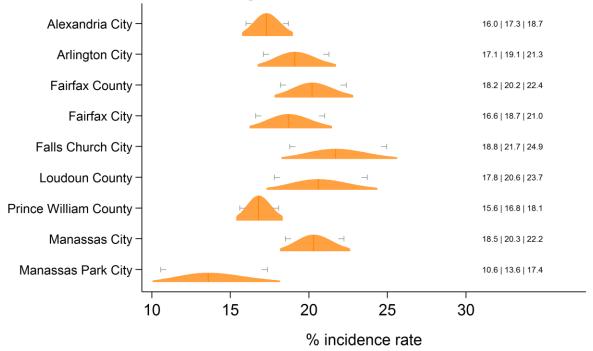


Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB Gray markers: 90% confidence interval





Lifetime arthritis, gout, lupus, fibromyalgia Alexandria, Fairfax, Arlington, Loudon, Prince William HDs



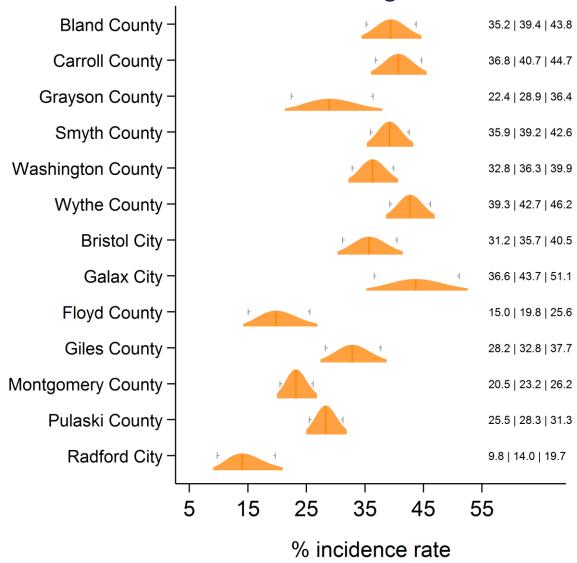
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB

Gray markers: 90% confidence interval





Lifetime arthritis, gout, lupus, fibromyalgia New River and Mount Rogers HDs

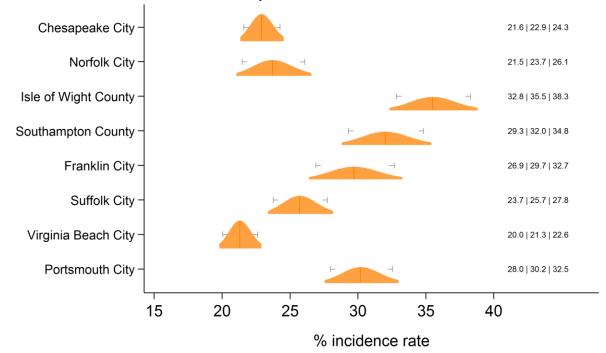


Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB Gray markers: 90% confidence interval





Lifetime arthritis, gout, lupus, fibromyalgia Norfolk,Portsmouth,Chesapeake,VA Beach,W. Tidewater HDs



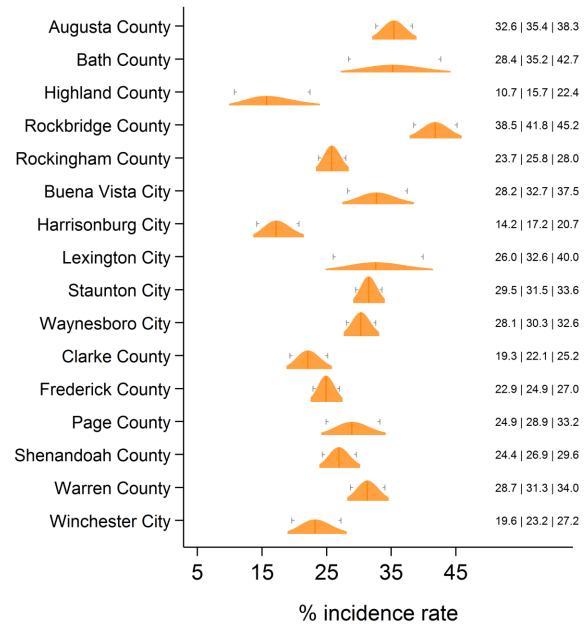
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB

Gray markers: 90% confidence interval





Lifetime arthritis, gout, lupus, fibromyalgia Central Shenandoah and Lord Fairfax HDs

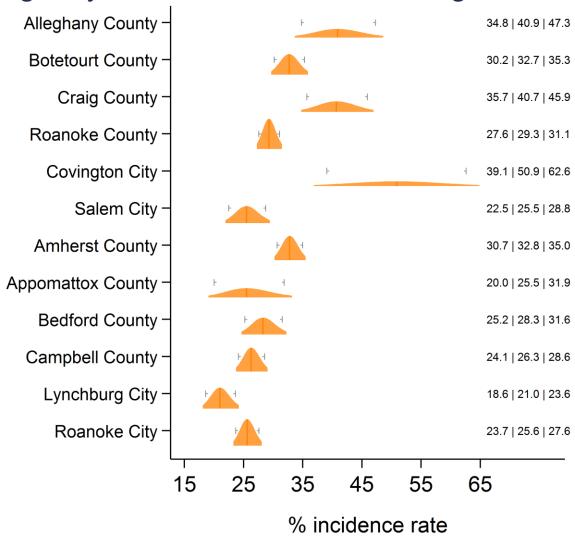


Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB Gray markers: 90% confidence interval





Lifetime arthritis, gout, lupus, fibromyalgia Alleghany, Roanoke and Central Virginia HDs



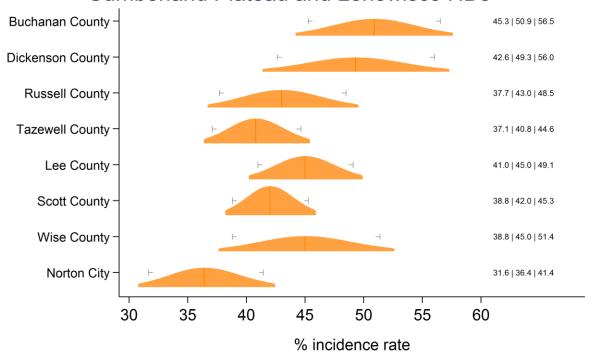
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB

Gray markers: 90% confidence interval





Lifetime arthritis, gout, lupus, fibromyalgia Cumberland Plateau and Lenowisco HDs

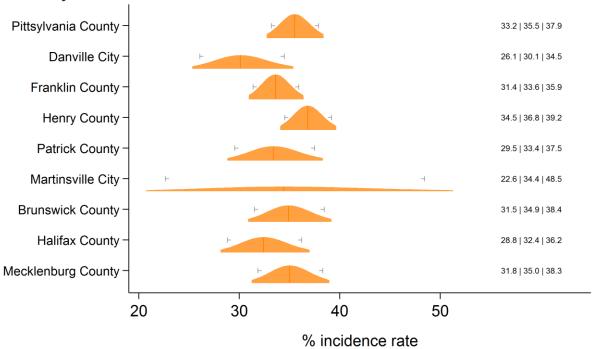


Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB Gray markers: 90% confidence interval





Lifetime arthritis, gout, lupus, fibromyalgia Pittsylvania/Danville, Southside and West Piedmont HDs

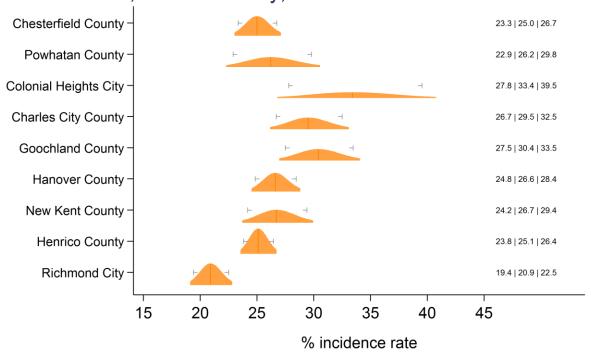


Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB Gray markers: 90% confidence interval





Lifetime arthritis, gout, lupus, fibromyalgia Chesterfield, Chickahominy, Henrico and Richmond HDs



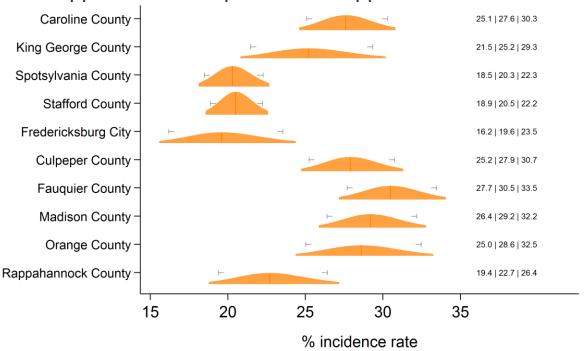
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB

Gray markers: 90% confidence interval





Lifetime arthritis, gout, lupus, fibromyalgia Rappahannock/Rapidan and Rappahannock HDs

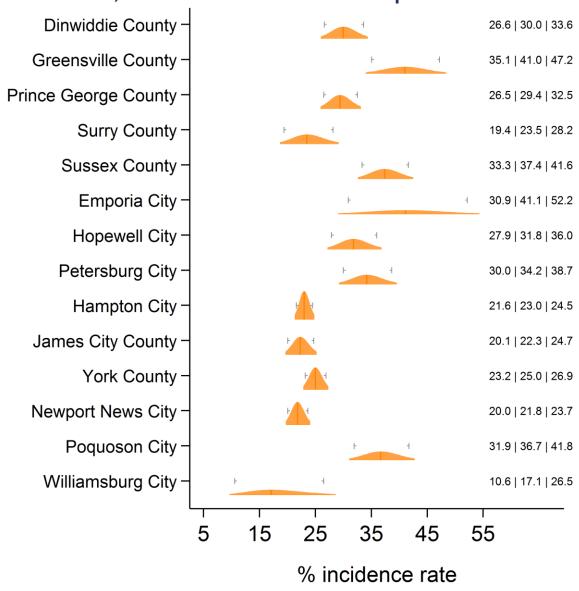


Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB Gray markers: 90% confidence interval





Lifetime arthritis, gout, lupus, fibromyalgia Crater, Peninsula and Hampton HDs



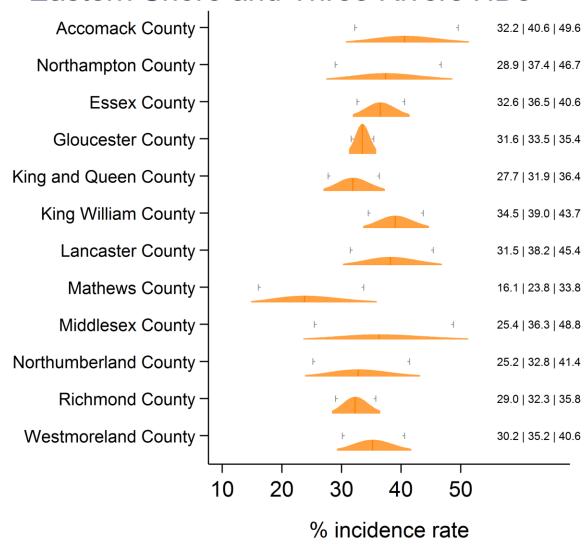
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB

Gray markers: 90% confidence interval





Lifetime arthritis, gout, lupus, fibromyalgia Eastern Shore and Three Rivers HDs



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: 43 areas.

Direct estimate is outside the 95% SAE Wilson CI: 90 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: 113 areas.

SAE Wilson 95% CI partially overlaps with the 95% direct Wilson CI: 20 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: 126 areas.

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

Direct standard error is zero: 7 areas.

Proportion of SAE variance due to ACS sampling error: min = 0.32%; med = 5.17%; max = 25.17%.

Proportion of SAE variance to sampling error in regression coefficient estimates: min = 73.83%; med = 92.92%; max = 99.22%.

Proportion of SAE variance due to model selection: min = 0.08%; med = 1.06%; max = 9.99%.