

## Indicator 33: Fruit and Vegetable Consumption – FV 5+ times a day

Internal variable name: outc33\_fvday

Definition: Combined recode of FRUIT2, FRUITJU2, FVGREEN1, VEGETAB2; potatoes are excluded

### Predictive models

|   | Mixed,<br>demos only  | Logit, no<br>area effects | Mixed with<br>area<br>covariates |
|---|-----------------------|---------------------------|----------------------------------|
|   | b/se                  | b/se                      | b/se                             |
| Outcome 33: Fruit and Vegetable Consumption FV 5+ times a day |                       |                           |                                  |
| NH Black vs. NH White   | 0.1988<br>(0.1150)    | 0.1906<br>(0.1310)        | 0.1906<br>(0.1178)               |
| NH Asian vs. NH White   | 0.1734<br>(0.1683)    | 0.0973<br>(0.2423)        | 0.0973<br>(0.1544)               |
| NH Other vs. NH White   | 0.1520<br>(0.2056)    | 0.1435<br>(0.1919)        | 0.1435<br>(0.2090)               |
| Hispanic vs. NH White   | 0.1085<br>(0.2069)    | 0.1325<br>(0.2053)        | 0.1325<br>(0.2179)               |
| Female  | 0.3898***<br>(0.1045) | 0.4001***<br>(0.0929)     | 0.4001***<br>(0.1048)            |
| Age 18-34 vs. 65+   | 0.2258<br>(0.1197)    | 0.2204<br>(0.1218)        | 0.2204<br>(0.1214)               |
| Age 35-44 vs. 65+   | 0.3577**<br>(0.1323)  | 0.3480**<br>(0.1322)      | 0.3480**<br>(0.1304)             |
| Age 45-54 vs. 65+   | 0.0204<br>(0.1171)    | 0.0280<br>(0.1225)        | 0.0280<br>(0.1191)               |
| Age 55-64 vs. 65+   | 0.2741**<br>(0.0928)  | 0.2704*<br>(0.1127)       | 0.2704**<br>(0.0930)             |
| VA BRFSS 2014 SAE outc11_skin_cancer                          |                       | 11.0416***<br>(3.2094)    | 11.0416***<br>(2.5164)           |
| VA BRFSS 2014 SAE outc9_stroke                                |                       | -2.7e+02***<br>(81.1496)  | -2.7e+02***<br>(64.7042)         |
| VA BRFSS 2014 SAE outc26_shingles_vacc                        |                       | 2.3368*<br>(0.9375)       | 2.3368**<br>(0.7321)             |
| % NH minority among adults 18 to 64                           |                       | 0.0137**<br>(0.0045)      | 0.0137***<br>(0.0041)            |
| o.VA BRFSS 2014 SAE outc9_stroke                              |                       | 0.0000<br>(.)             |                                  |
| Historic SAE: current smoking rate                            |                       | -0.1095***<br>(0.0310)    | -0.1095***<br>(0.0240)           |
| c.VA14SAE_outc9_stroke#c.papsmear                             |                       | 3.0174**<br>(0.9393)      | 3.0174***<br>(0.7372)            |

|  |                        |                         |                          |
|--|------------------------|-------------------------|--------------------------|
| VA BRFSS 2014 SAE outc8_heart_disease                |                        | -18.9872**<br>(5.8091)  | -18.9872***<br>(3.9443)  |
| c.VA14SAE_outc8_heart_disease#c.VA14SAE_outc9_stroke |                        | 388.0006*<br>(176.5076) | 388.0007**<br>(139.6002) |
| Intercept  | -2.2142***<br>(0.0920) | 6.1783*<br>(2.6020)     | 6.1783**<br>(2.0267)     |
| Area effect variance                                 | 0.0175<br>(0.0140)     |                         | 0.0000<br>(0.0000)       |

Number of alternative models used to estimate model error = 12.

## Results

| County name         | County FIPS | Direct estimate | Direct 95% CI  | SAE composite | SAE CI         |
|---------------------|-------------|-----------------|----------------|---------------|----------------|
| Augusta County      | 51015       | 9.6%            | (4.4%, 19.9%)  | 12.3%         | (10.1%, 15.0%) |
| Bath County         | 51017       | 11.6%           | (2.0%, 54.4%)  | 6.1%          | (3.5%, 10.5%)  |
| Caroline County     | 51033       | 26.2%           | (9.5%, 54.6%)  | 19.2%         | (16.3%, 22.4%) |
| Clarke County       | 51043       | 11.8%           | (5.1%, 40.5%)  | 16.4%         | (13.1%, 20.4%) |
| Culpeper County     | 51047       | 17.6%           | (6.7%, 39.0%)  | 15.0%         | (13.5%, 16.6%) |
| Fauquier County     | 51061       | 5.6%            | (3.1%, 18.4%)  | 14.7%         | (11.6%, 18.3%) |
| Frederick County    | 51069       | 29.2%           | (16.6%, 46.0%) | 13.8%         | (11.8%, 16.1%) |
| Highland County     | 51091       | 21.5%           | (2.6%, 73.5%)  | 35.5%         | (24.4%, 48.3%) |
| King George County  | 51099       | 3.0%            | (1.4%, 29.3%)  | 16.8%         | (14.6%, 19.3%) |
| Madison County      | 51113       | 21.4%           | (6.0%, 53.7%)  | 17.9%         | (14.8%, 21.5%) |
| Orange County       | 51137       | 13.9%           | (5.5%, 31.0%)  | 14.2%         | (12.0%, 16.7%) |
| Page County         | 51139       | 13.2%           | (4.0%, 35.5%)  | 11.3%         | (9.2%, 13.7%)  |
| Rappahannock County | 51157       | 28.8%           | (8.9%, 62.8%)  | 13.3%         | (10.7%, 16.4%) |
| Rockbridge County   | 51163       | 24.5%           | (11.8%, 43.9%) | 12.0%         | (10.2%, 14.0%) |
| Rockingham County   | 51165       | 8.1%            | (5.1%, 16.7%)  | 11.0%         | (8.9%, 13.5%)  |
| Shenandoah County   | 51171       | 15.8%           | (5.5%, 37.6%)  | 13.8%         | (11.4%, 16.6%) |
| Spotsylvania County | 51177       | 12.0%           | (6.7%, 20.7%)  | 11.1%         | (9.2%, 13.2%)  |
| Stafford County     | 51179       | 12.7%           | (7.3%, 21.2%)  | 13.6%         | (11.8%, 15.7%) |
| Warren County       | 51187       | 13.1%           | (4.3%, 33.7%)  | 14.4%         | (12.5%, 16.5%) |
| Buena Vista City    | 51530       | 0.0%            | (0.0%, 45.0%)  | 14.9%         | (12.6%, 17.5%) |
| Fredericksburg City | 51630       | 21.1%           | (6.6%, 50.4%)  | 18.6%         | (15.5%, 22.2%) |
| Harrisonburg City   | 51660       | 12.9%           | (1.7%, 55.6%)  | 10.7%         | (8.5%, 13.4%)  |
| Lexington City      | 51678       | 0.0%            | (0.0%, 96.3%)  | 3.8%          | (1.8%, 7.7%)   |
| Staunton City       | 51790       | 16.3%           | (2.1%, 63.4%)  | 12.8%         | (10.5%, 15.5%) |
| Waynesboro City     | 51820       | 32.5%           | (8.8%, 70.6%)  | 12.4%         | (10.9%, 14.0%) |
| Winchester City     | 51840       | 48.2%           | (8.5%, 90.3%)  | 13.0%         | (10.8%, 15.5%) |

| County name           | County FIPS | Direct estimate | Direct 95% CI  | SAE composite | SAE CI         |
|-----------------------|-------------|-----------------|----------------|---------------|----------------|
| Albemarle County      | 51003       | 20.1%           | (12.7%, 30.4%) | 19.9%         | (17.9%, 22.1%) |
| Alleghany County      | 51005       | 9.8%            | (3.2%, 26.5%)  | 6.8%          | (5.1%, 9.1%)   |
| Amherst County        | 51009       | 19.4%           | (4.4%, 55.5%)  | 15.1%         | (12.6%, 17.9%) |
| Appomattox County     | 51011       | 25.3%           | (9.6%, 51.9%)  | 21.0%         | (15.3%, 28.0%) |
| Arlington City        | 51013       | 22.7%           | (15.1%, 32.6%) | 21.5%         | (18.6%, 24.8%) |
| Bedford County        | 51019       | 6.2%            | (3.9%, 13.0%)  | 12.0%         | (10.2%, 14.1%) |
| Botetourt County      | 51023       | 25.3%           | (12.0%, 45.7%) | 16.2%         | (12.8%, 20.3%) |
| Campbell County       | 51031       | 13.0%           | (6.8%, 23.5%)  | 11.0%         | (9.3%, 13.0%)  |
| Craig County          | 51045       | 13.8%           | (2.9%, 74.1%)  | 26.3%         | (19.8%, 34.1%) |
| Fairfax County        | 51059       | 18.7%           | (15.6%, 22.4%) | 16.9%         | (15.2%, 18.8%) |
| Fluvanna County       | 51065       | 14.9%           | (5.1%, 36.7%)  | 16.0%         | (13.3%, 19.1%) |
| Greene County         | 51079       | 0.0%            | (0.0%, 37.1%)  | 14.3%         | (12.3%, 16.5%) |
| Loudoun County        | 51107       | 16.8%           | (11.3%, 24.3%) | 17.5%         | (15.2%, 20.1%) |
| Louisa County         | 51109       | 17.2%           | (6.6%, 38.1%)  | 16.6%         | (14.5%, 18.9%) |
| Nelson County         | 51125       | 13.1%           | (5.7%, 44.2%)  | 20.4%         | (16.5%, 24.9%) |
| Prince William County | 51153       | 14.9%           | (10.2%, 21.2%) | 13.4%         | (11.6%, 15.3%) |
| Roanoke County        | 51161       | 12.8%           | (7.6%, 20.6%)  | 14.4%         | (11.5%, 17.9%) |
| Alexandria City       | 51510       | 19.1%           | (12.4%, 28.3%) | 18.5%         | (16.2%, 21.1%) |
| Charlottesville City  | 51540       | 8.5%            | (4.7%, 28.5%)  | 15.6%         | (12.4%, 19.5%) |
| Covington City        | 51580       | 0.0%            | (0.0%, 96.4%)  | 9.5%          | (6.7%, 13.5%)  |
| Fairfax City          | 51600       | 14.1%           | (6.5%, 28.0%)  | 12.1%         | (10.0%, 14.5%) |
| Falls Church City     | 51610       | 24.4%           | (9.6%, 49.6%)  | 29.2%         | (24.4%, 34.5%) |
| Lynchburg City        | 51680       | 17.9%           | (9.7%, 30.7%)  | 19.9%         | (17.7%, 22.3%) |
| Manassas City         | 51683       | 1.9%            | (1.1%, 36.6%)  | 8.7%          | (6.6%, 11.4%)  |
| Manassas Park City    | 51685       | 0.0%            | (0.0%, 76.5%)  | 0.3%          | (0.0%, 7.1%)   |
| Salem City            | 51775       | 2.6%            | (1.1%, 46.6%)  | 10.1%         | (8.3%, 12.1%)  |

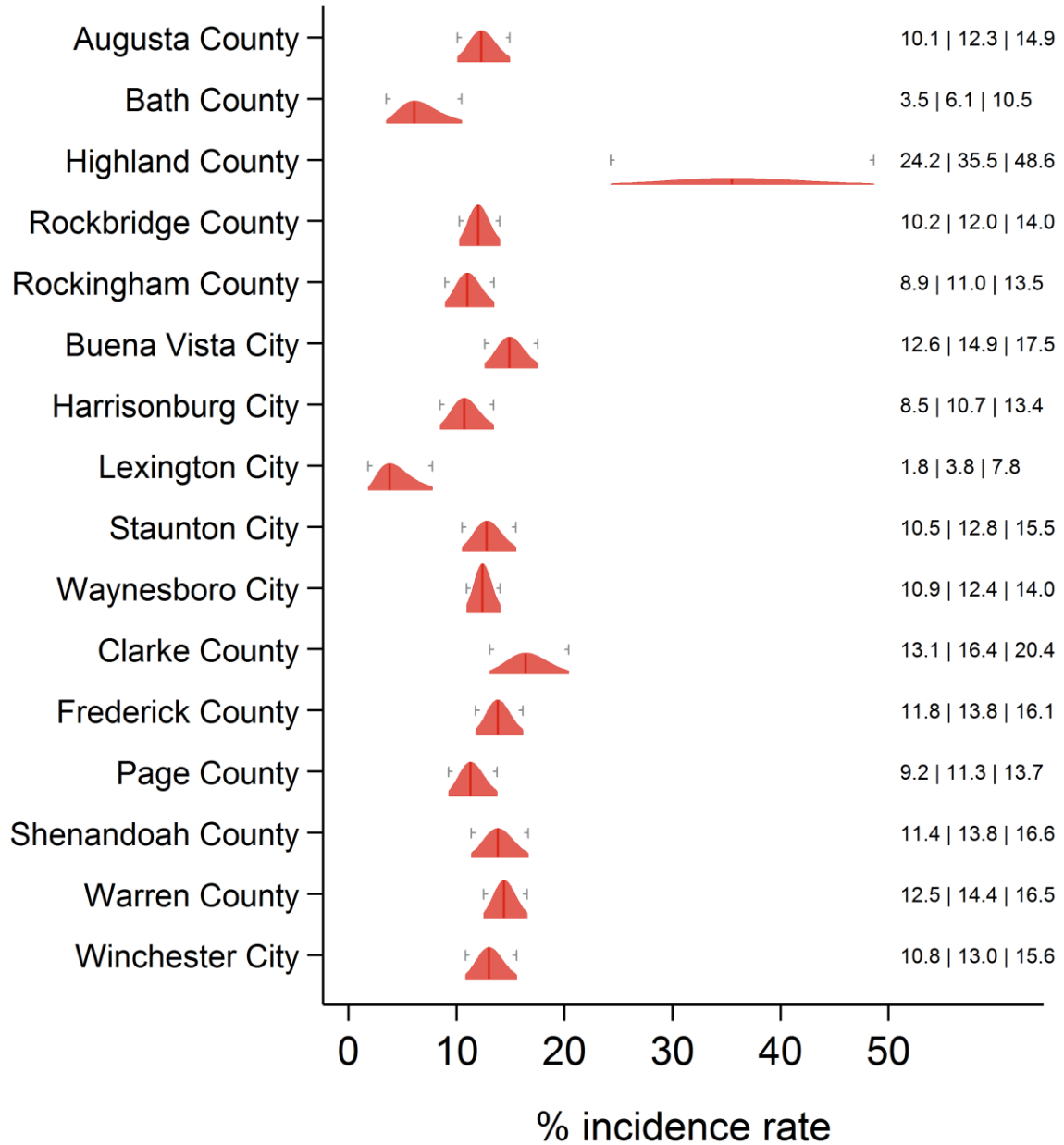
| County name         | County FIPS | Direct estimate | Direct 95% CI  | SAE composite | SAE CI         |
|---------------------|-------------|-----------------|----------------|---------------|----------------|
| Bland County        | 51021       | 7.4%            | (1.5%, 38.5%)  | 9.8%          | (7.5%, 12.8%)  |
| Buchanan County     | 51027       | 2.2%            | (1.1%, 22.0%)  | 4.9%          | (2.4%, 10.1%)  |
| Carroll County      | 51035       | 22.5%           | (8.2%, 48.7%)  | 13.0%         | (9.7%, 17.2%)  |
| Dickenson County    | 51051       | 9.7%            | (2.1%, 35.1%)  | 8.6%          | (5.0%, 14.6%)  |
| Floyd County        | 51063       | 15.8%           | (5.9%, 35.8%)  | 17.3%         | (13.2%, 22.2%) |
| Franklin County     | 51067       | 3.4%            | (2.0%, 19.4%)  | 11.4%         | (9.8%, 13.2%)  |
| Giles County        | 51071       | 19.2%           | (8.4%, 37.9%)  | 14.2%         | (11.3%, 17.7%) |
| Grayson County      | 51077       | 8.8%            | (1.9%, 32.2%)  | 18.5%         | (13.1%, 25.4%) |
| Henry County        | 51089       | 7.5%            | (2.8%, 18.3%)  | 6.5%          | (4.5%, 9.2%)   |
| Lee County          | 51105       | 0.0%            | (-0.0%, 28.6%) | 6.5%          | (4.9%, 8.8%)   |
| Montgomery County   | 51121       | 13.7%           | (6.7%, 26.1%)  | 15.5%         | (13.8%, 17.5%) |
| Patrick County      | 51141       | 6.7%            | (3.1%, 38.5%)  | 11.0%         | (8.2%, 14.7%)  |
| Pittsylvania County | 51143       | 12.0%           | (6.2%, 21.9%)  | 12.1%         | (10.9%, 13.5%) |
| Pulaski County      | 51155       | 4.5%            | (2.1%, 21.8%)  | 5.9%          | (4.2%, 8.3%)   |
| Russell County      | 51167       | 14.1%           | (4.0%, 39.5%)  | 8.8%          | (6.7%, 11.4%)  |
| Scott County        | 51169       | 6.1%            | (2.9%, 25.4%)  | 7.4%          | (5.4%, 10.0%)  |
| Smyth County        | 51173       | 2.5%            | (1.4%, 31.6%)  | 10.7%         | (8.5%, 13.4%)  |
| Tazewell County     | 51185       | 20.4%           | (8.1%, 42.5%)  | 7.9%          | (5.7%, 10.9%)  |
| Washington County   | 51191       | 13.1%           | (5.2%, 29.0%)  | 12.6%         | (10.4%, 15.0%) |
| Wise County         | 51195       | 13.0%           | (5.6%, 27.5%)  | 11.2%         | (8.5%, 14.6%)  |
| Wythe County        | 51197       | 7.5%            | (3.4%, 26.0%)  | 8.2%          | (5.5%, 12.1%)  |
| Bristol City        | 51520       | 76.3%           | (14.0%, 97.2%) | 20.4%         | (14.6%, 27.8%) |
| Danville City       | 51590       | 22.4%           | (7.8%, 49.6%)  | 10.3%         | (6.1%, 16.9%)  |
| Galax City          | 51640       | 43.9%           | (2.5%, 96.0%)  | 9.4%          | (5.5%, 15.6%)  |
| Martinsville City   | 51690       | 3.7%            | (1.4%, 53.6%)  | 2.8%          | (0.9%, 8.6%)   |
| Norton City         | 51720       | 28.6%           | (3.1%, 83.5%)  | 5.6%          | (2.1%, 13.9%)  |
| Radford City        | 51750       | 37.4%           | (8.4%, 79.6%)  | 17.3%         | (13.1%, 22.5%) |
| Roanoke City        | 51770       | 6.1%            | (2.4%, 14.7%)  | 10.4%         | (8.6%, 12.5%)  |

| County name           | County FIPS | Direct estimate | Direct 95% CI  | SAE composite | SAE CI         |
|-----------------------|-------------|-----------------|----------------|---------------|----------------|
| Amelia County         | 51007       | 8.1%            | (1.5%, 34.2%)  | 8.5%          | (6.8%, 10.5%)  |
| Brunswick County      | 51025       | 3.6%            | (1.4%, 27.6%)  | 5.0%          | (2.3%, 10.6%)  |
| Buckingham County     | 51029       | 11.6%           | (3.7%, 30.6%)  | 15.9%         | (13.6%, 18.5%) |
| Charles City County   | 51036       | 0.0%            | (0.0%, 58.8%)  | 17.5%         | (13.8%, 21.9%) |
| Charlotte County      | 51037       | 11.4%           | (3.3%, 32.3%)  | 12.2%         | (9.9%, 15.1%)  |
| Chesterfield County   | 51041       | 13.8%           | (8.6%, 21.3%)  | 14.0%         | (12.4%, 15.8%) |
| Cumberland County     | 51049       | 18.2%           | (3.2%, 59.7%)  | 12.2%         | (10.8%, 13.6%) |
| Dinwiddie County      | 51053       | 8.1%            | (1.6%, 32.0%)  | 10.1%         | (8.4%, 12.2%)  |
| Goochland County      | 51075       | 11.4%           | (3.5%, 31.4%)  | 13.7%         | (11.0%, 17.0%) |
| Greensville County    | 51081       | 26.8%           | (5.3%, 70.4%)  | 12.2%         | (9.6%, 15.4%)  |
| Halifax County        | 51083       | 1.7%            | (1.1%, 13.3%)  | 9.8%          | (7.5%, 12.6%)  |
| Hanover County        | 51085       | 12.8%           | (6.9%, 22.8%)  | 14.8%         | (12.8%, 17.0%) |
| Henrico County        | 51087       | 14.8%           | (9.2%, 23.0%)  | 17.2%         | (15.0%, 19.6%) |
| Lunenburg County      | 51111       | 7.0%            | (3.0%, 41.0%)  | 11.8%         | (9.6%, 14.4%)  |
| Mecklenburg County    | 51117       | 16.8%           | (7.6%, 33.2%)  | 13.9%         | (11.7%, 16.4%) |
| New Kent County       | 51127       | 14.7%           | (3.5%, 45.4%)  | 7.6%          | (5.8%, 10.0%)  |
| Nottoway County       | 51135       | 3.6%            | (1.9%, 38.7%)  | 17.2%         | (13.9%, 21.0%) |
| Powhatan County       | 51145       | 30.7%           | (10.6%, 62.5%) | 12.5%         | (9.8%, 15.9%)  |
| Prince Edward County  | 51147       | 27.4%           | (12.7%, 49.5%) | 21.2%         | (18.3%, 24.3%) |
| Prince George County  | 51149       | 11.2%           | (4.4%, 25.6%)  | 11.1%         | (9.7%, 12.6%)  |
| Surry County          | 51181       | 0.0%            | (0.0%, 35.6%)  | 6.1%          | (3.1%, 11.6%)  |
| Sussex County         | 51183       | 16.3%           | (4.4%, 45.3%)  | 11.0%         | (8.5%, 14.0%)  |
| Colonial Heights City | 51570       | 4.6%            | (2.2%, 24.8%)  | 9.7%          | (7.2%, 13.0%)  |
| Emporia City          | 51595       | 62.9%           | (3.5%, 98.6%)  | 23.0%         | (16.5%, 31.2%) |
| Hopewell City         | 51670       | 17.6%           | (6.2%, 40.6%)  | 14.2%         | (9.2%, 21.2%)  |
| Petersburg City       | 51730       | 23.7%           | (10.9%, 44.1%) | 17.8%         | (13.3%, 23.5%) |
| Richmond City         | 51760       | 14.3%           | (8.4%, 23.3%)  | 17.0%         | (14.3%, 20.2%) |

| County name           | County FIPS | Direct estimate | Direct 95% CI  | SAE composite | SAE CI         |
|-----------------------|-------------|-----------------|----------------|---------------|----------------|
| Accomack County       | 51001       | 25.3%           | (11.8%, 46.1%) | 15.1%         | (11.4%, 19.8%) |
| Essex County          | 51057       | 15.4%           | (5.1%, 38.4%)  | 18.8%         | (14.8%, 23.6%) |
| Gloucester County     | 51073       | 17.4%           | (8.5%, 32.2%)  | 13.0%         | (11.3%, 14.9%) |
| Isle of Wight County  | 51093       | 12.4%           | (3.5%, 35.9%)  | 11.9%         | (10.1%, 14.0%) |
| James City County     | 51095       | 19.9%           | (11.7%, 31.9%) | 17.3%         | (14.4%, 20.6%) |
| King and Queen County | 51097       | 8.7%            | (1.9%, 45.5%)  | 8.6%          | (6.8%, 10.8%)  |
| King William County   | 51101       | 7.1%            | (1.1%, 34.5%)  | 9.5%          | (7.8%, 11.5%)  |
| Lancaster County      | 51103       | 6.7%            | (3.2%, 46.5%)  | 5.1%          | (2.0%, 12.8%)  |
| Mathews County        | 51115       | 17.2%           | (5.7%, 41.9%)  | 10.8%         | (8.7%, 13.3%)  |
| Middlesex County      | 51119       | 25.6%           | (9.6%, 52.6%)  | 15.6%         | (13.3%, 18.3%) |
| Northampton County    | 51131       | 12.9%           | (5.0%, 29.3%)  | 11.9%         | (9.2%, 15.4%)  |
| Northumberland County | 51133       | 5.8%            | (3.0%, 27.3%)  | 15.0%         | (9.6%, 22.7%)  |
| Richmond County       | 51159       | 9.6%            | (3.2%, 25.3%)  | 10.9%         | (9.3%, 12.8%)  |
| Southampton County    | 51175       | 10.0%           | (3.7%, 43.9%)  | 11.8%         | (10.1%, 13.8%) |
| Westmoreland County   | 51193       | 4.2%            | (2.0%, 48.2%)  | 13.2%         | (10.9%, 15.9%) |
| York County           | 51199       | 16.2%           | (7.1%, 32.9%)  | 15.3%         | (12.5%, 18.6%) |
| Chesapeake City       | 51550       | 12.9%           | (7.6%, 20.9%)  | 15.7%         | (14.3%, 17.3%) |
| Franklin City         | 51620       | 4.1%            | (2.1%, 29.3%)  | 12.4%         | (9.6%, 15.9%)  |
| Hampton City          | 51650       | 13.5%           | (8.5%, 21.0%)  | 14.8%         | (12.5%, 17.3%) |
| Newport News City     | 51700       | 21.8%           | (12.5%, 35.4%) | 15.1%         | (12.8%, 17.8%) |
| Norfolk City          | 51710       | 10.7%           | (6.9%, 16.1%)  | 15.6%         | (13.5%, 18.0%) |
| Poquoson City         | 51735       | 22.6%           | (3.5%, 79.0%)  | 14.5%         | (11.6%, 18.0%) |
| Portsmouth City       | 51740       | 18.5%           | (10.0%, 31.8%) | 13.8%         | (11.2%, 16.9%) |
| Suffolk City          | 51800       | 14.0%           | (7.4%, 25.0%)  | 15.5%         | (13.6%, 17.7%) |
| Virginia Beach City   | 51810       | 16.9%           | (11.7%, 23.8%) | 16.3%         | (14.9%, 17.9%) |
| Williamsburg City     | 51830       | 9.1%            | (1.3%, 42.7%)  | 8.4%          | (4.8%, 14.1%)  |

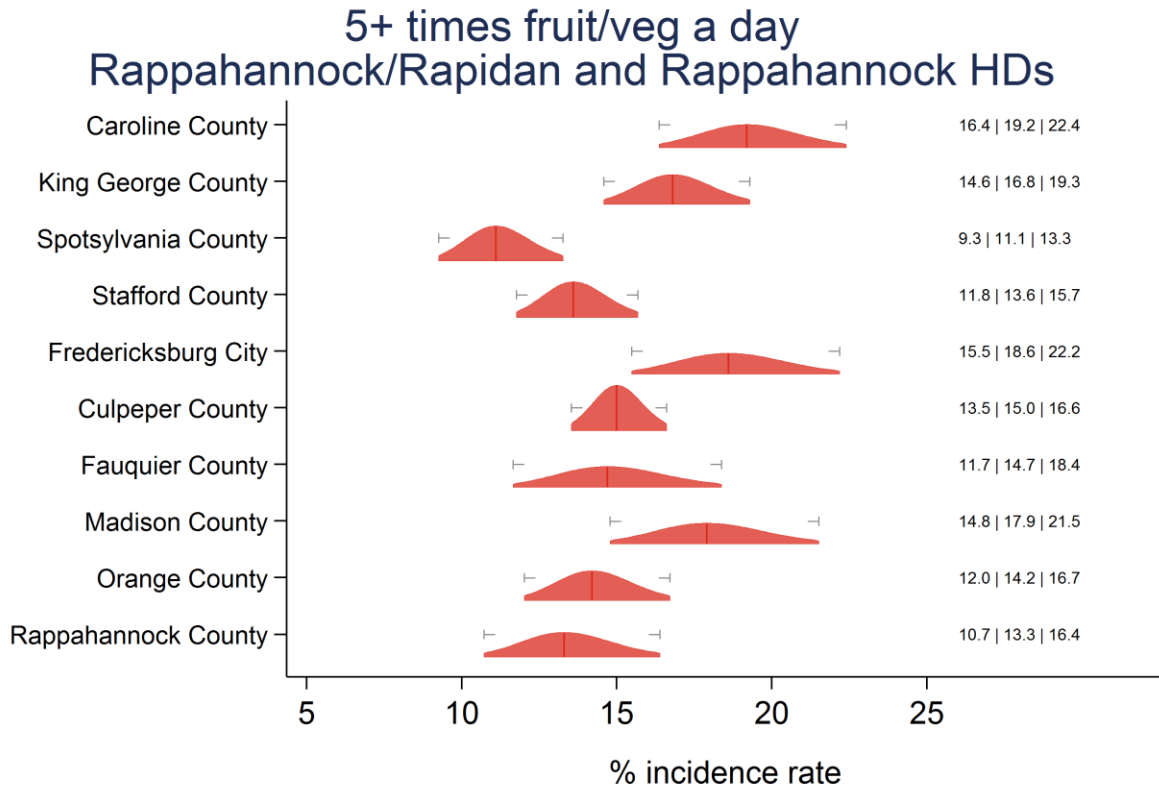
Graphical representation

## 5+ times fruit/veg a day Central Shenandoah and Lord Fairfax HDs



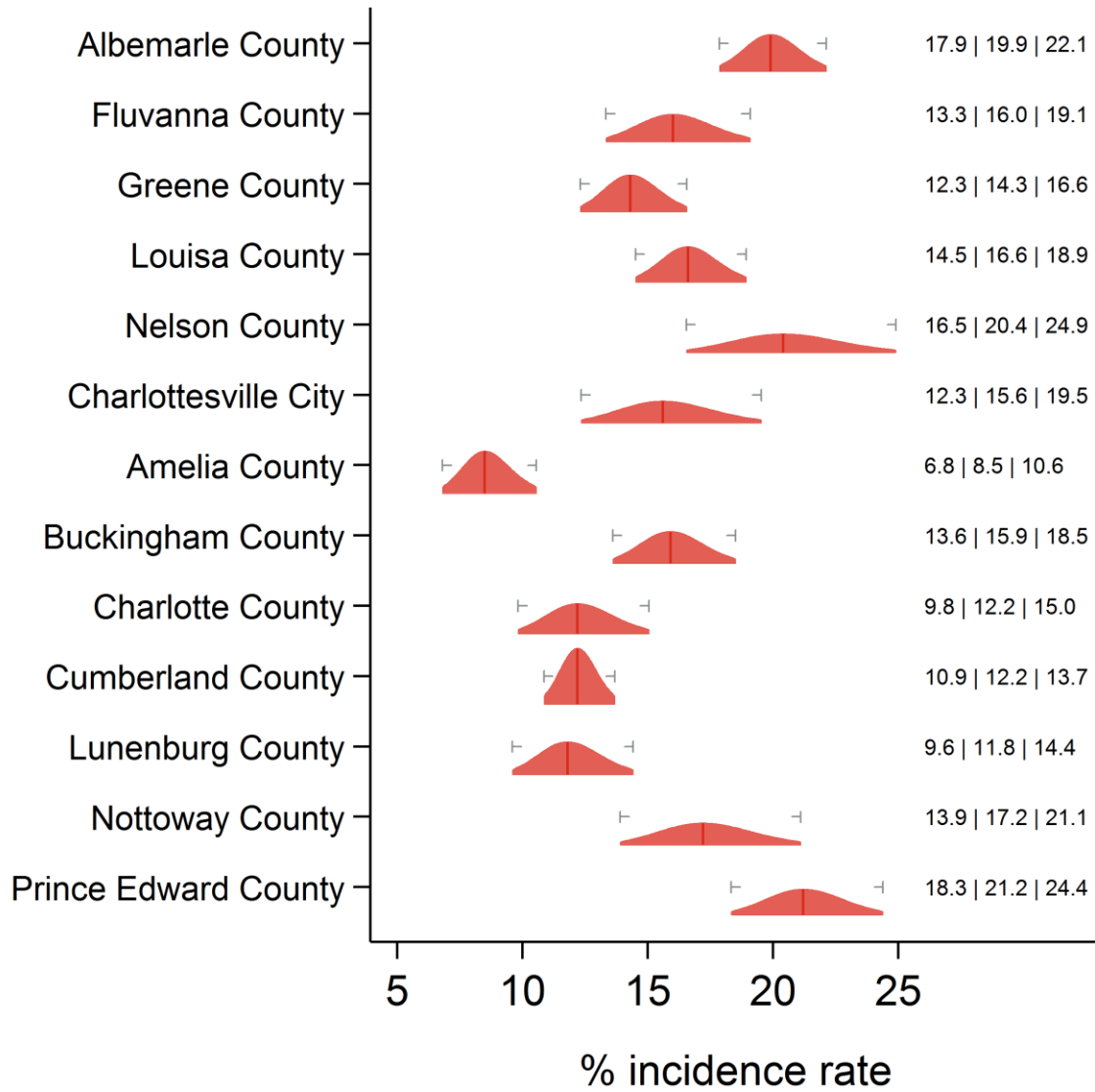
Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB  
 Gray markers: 95% confidence interval





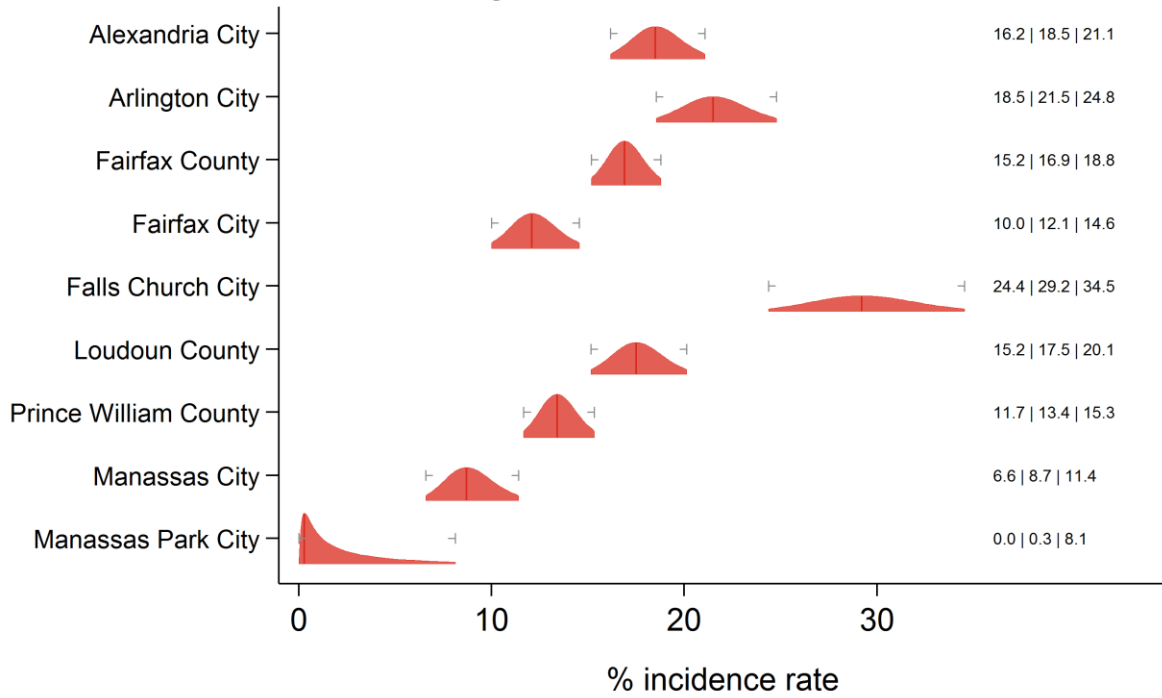
Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB  
 Gray markers: 95% confidence interval

## 5+ times fruit/veg a day Thomas Jefferson and Piedmont HDs



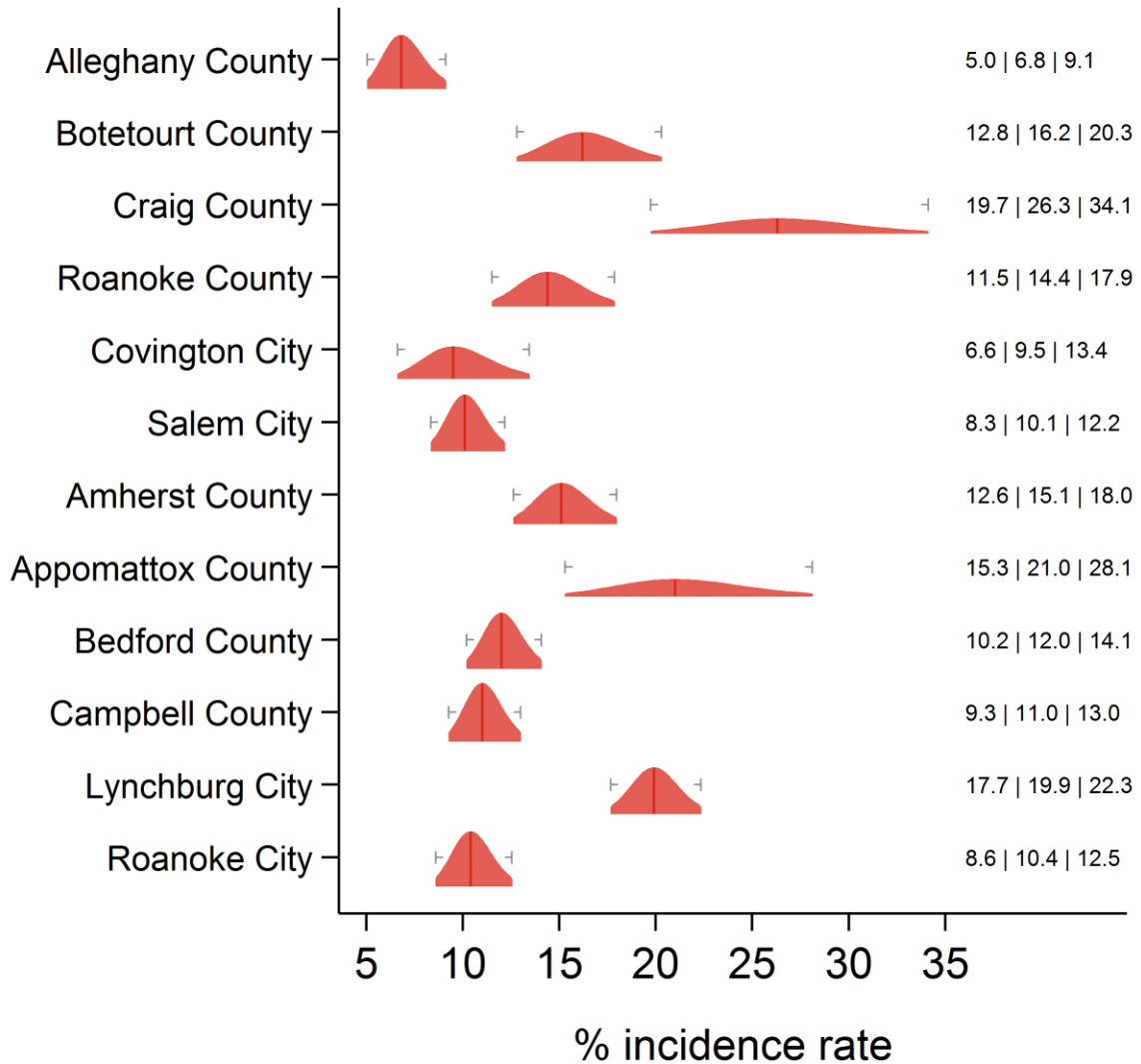
Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB  
 Gray markers: 95% confidence interval

### 5+ times fruit/veg a day Alexandria, Fairfax, Arlington, Loudon, Prince William HDs



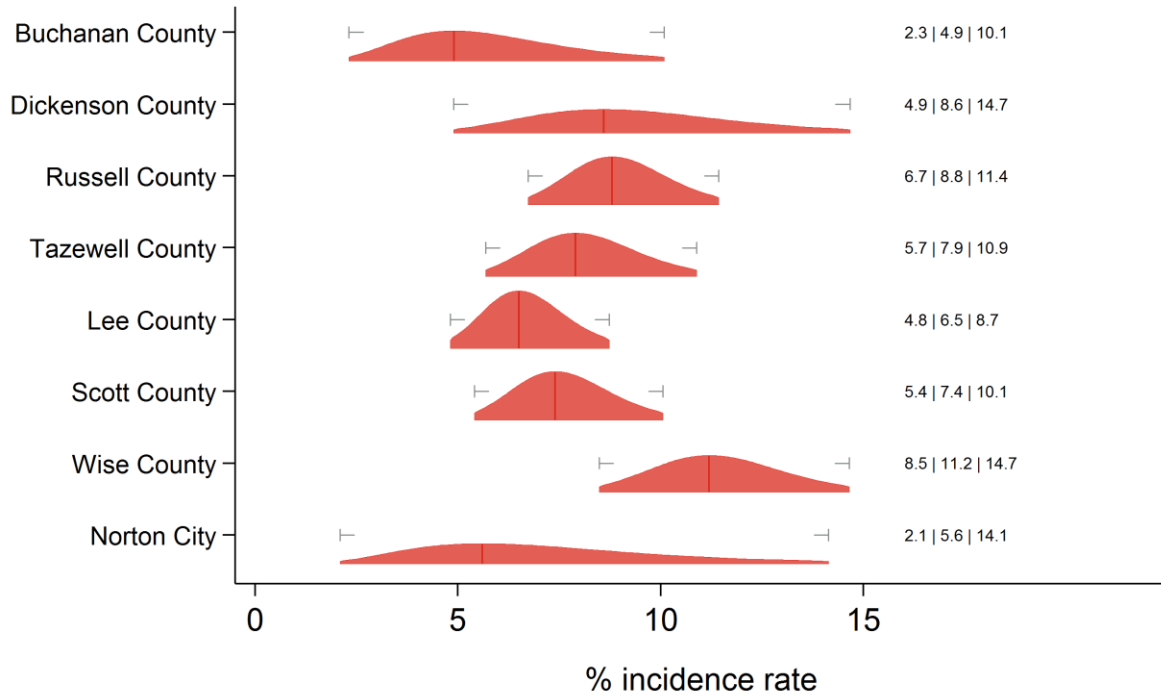
Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB  
 Gray markers: 95% confidence interval

## 5+ times fruit/veg a day Alleghany, Roanoke and Central Virginia HDs



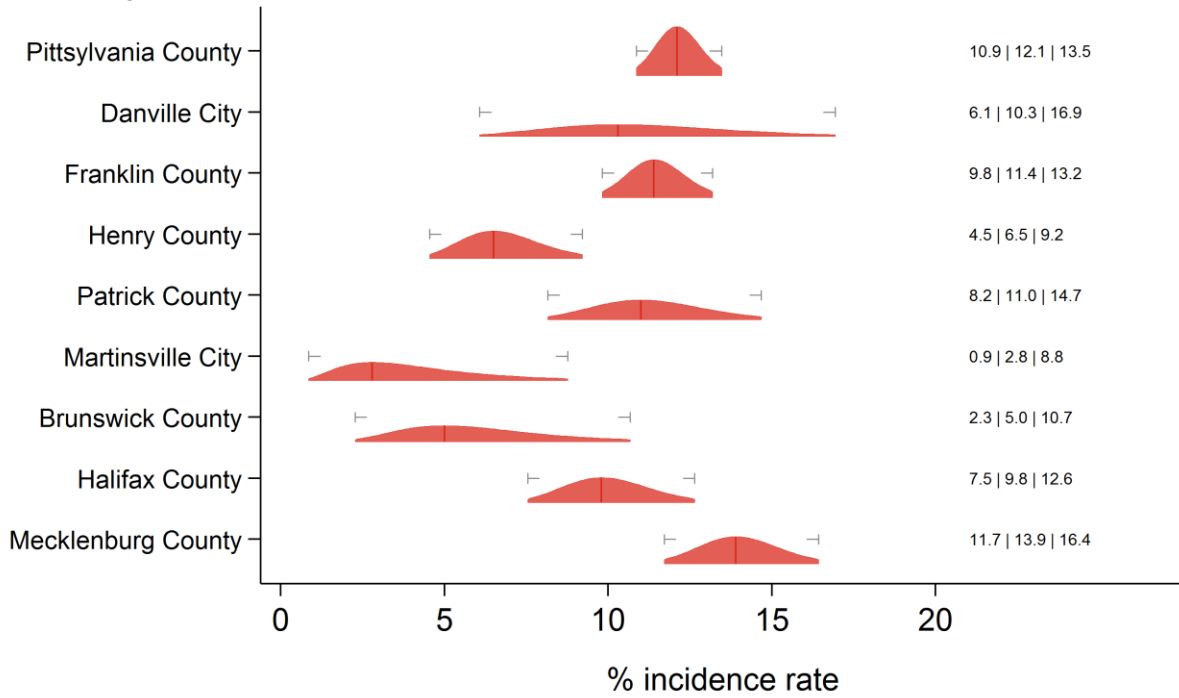
Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB  
 Gray markers: 95% confidence interval

### 5+ times fruit/veg a day Cumberland Plateau and Lenowisco HDs



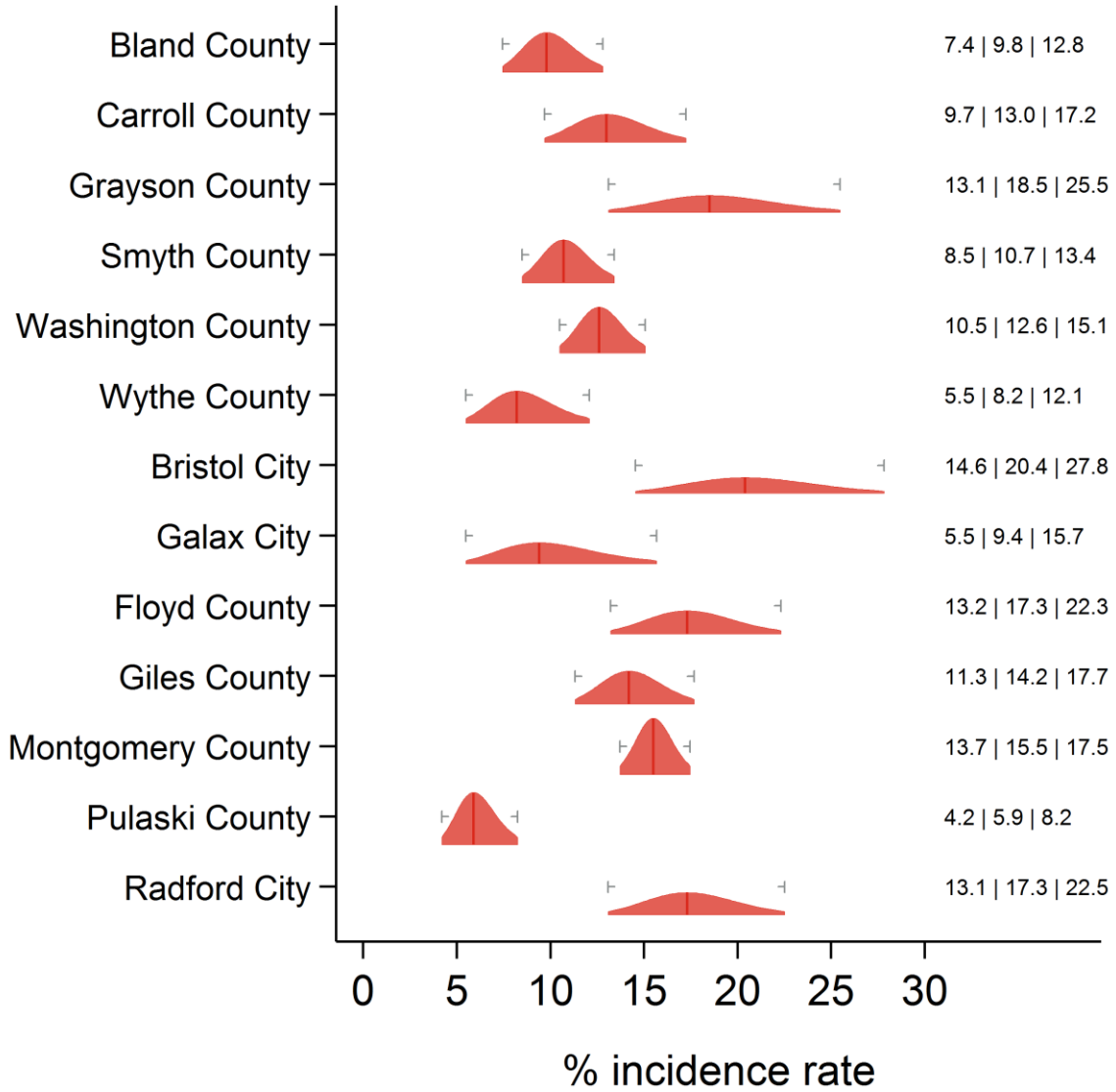
Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB  
 Gray markers: 95% confidence interval

### 5+ times fruit/veg a day Pittsylvania/Danville, Southside and West Piedmont HDs



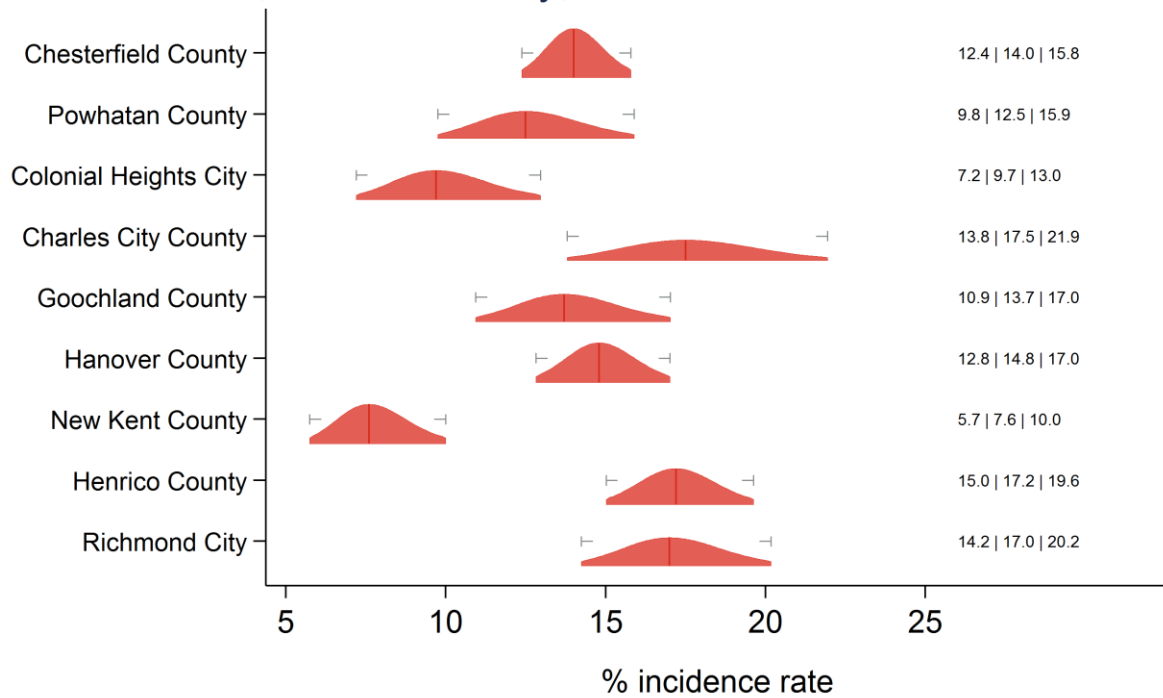
Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB  
 Gray markers: 95% confidence interval

## 5+ times fruit/veg a day New River and Mount Rogers HDs



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

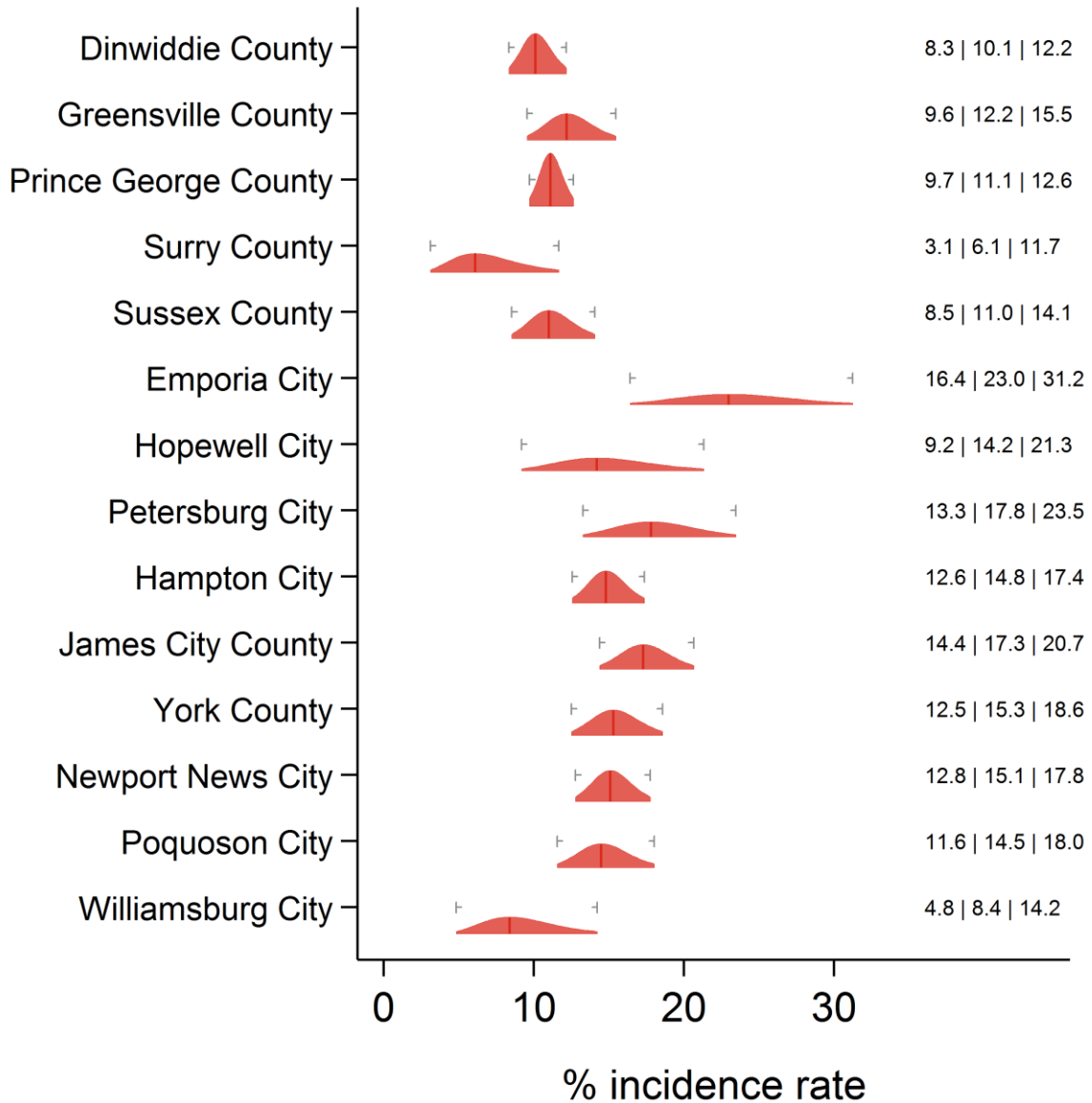
### 5+ times fruit/veg a day Chesterfield, Chickahominy, Henrico and Richmond HDs



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

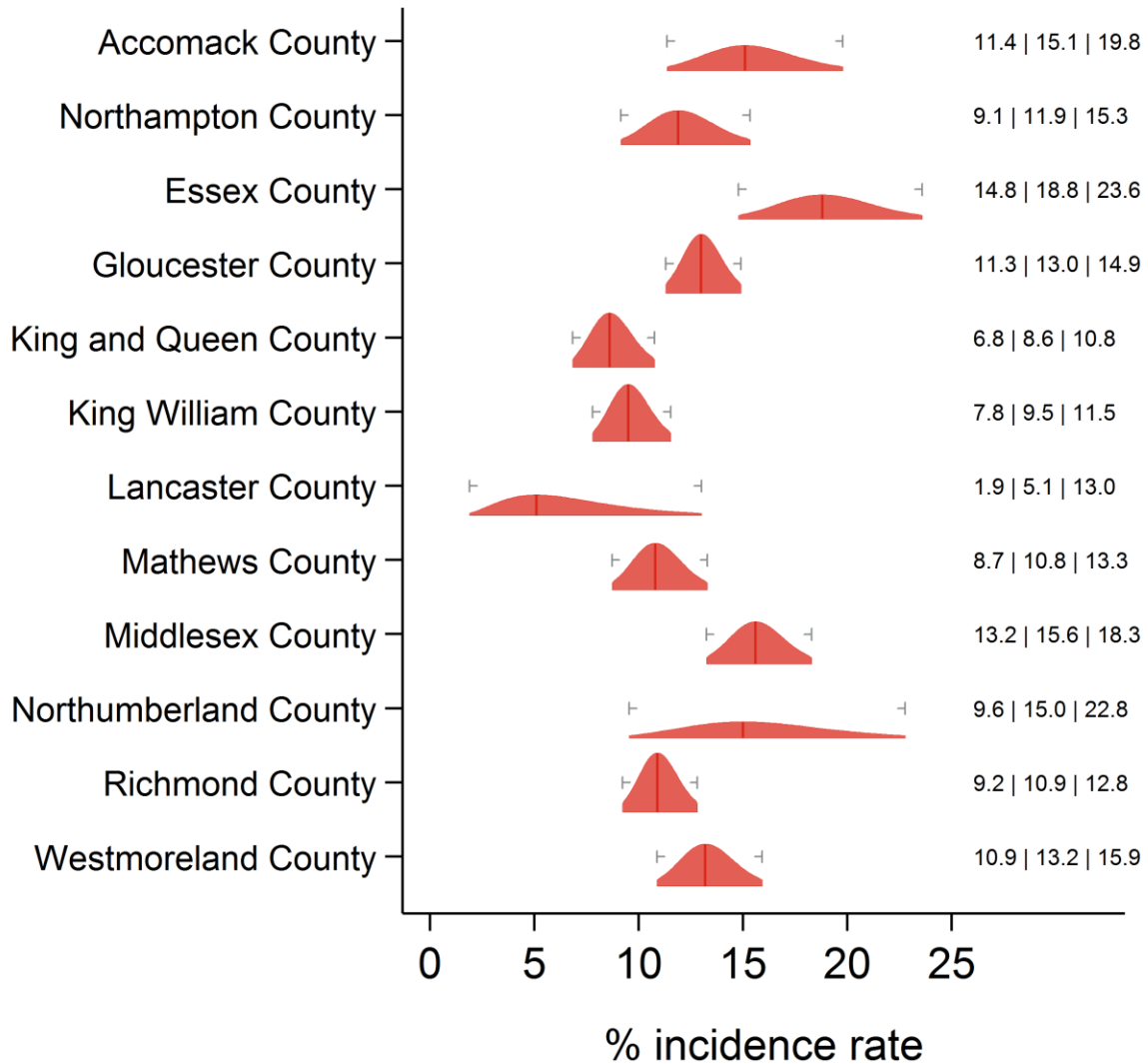


## 5+ times fruit/veg a day Crater, Peninsula and Hampton HDs



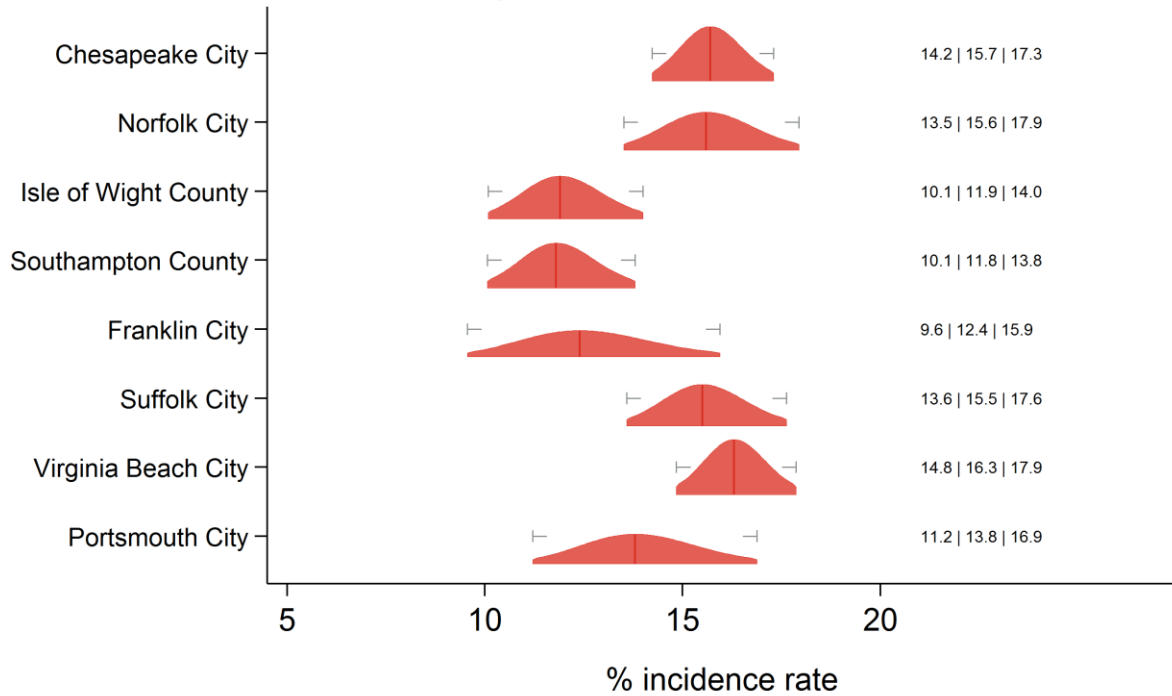
Text at right: 2-sided 95% LCB | Point Estimate | 2-sided 95% UCB  
 Gray markers: 95% confidence interval

## 5+ times fruit/veg a day Eastern Shore and Three Rivers HDs



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

### 5+ times fruit/veg a day 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

### Additional diagnostics

Direct estimate is inside the 95% SAE Wilson CI: 53 areas.

Direct estimate is outside the 95% SAE Wilson CI: 80 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: 121 areas.

SAE Wilson 95% CI partially overlaps with the 95% direct Wilson CI: 12 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: 124 areas.

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

Direct standard error is zero: 8 areas.

Proportion of SAE variance due to ACS sampling error: min = 0.01%; med = 2.64%; max = 11.08%.

Proportion of SAE variance due to sampling error in regression coefficient estimates: min = 7.73%; med = 90.46%; max = 98.48%.

Proportion of SAE variance due to model selection: min = 0.55%; med = 5.52%; max = 92.25%.

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