



Indicator 20: Current E-Cigarette Use

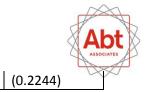
Internal variable name: outc20_ecig

Definition: Do you now use e-cigarettes or other electronic vaping products?

Predictive models

	Mixed, demos only	Logit, no area effects	Mixed with area covariates
	b/se	b/se	b/se
Outcome 20: Current E-Cigarette Use	5/50	5/30	5/30
NH Black vs. NH White	-0.3330	-0.4532*	-0.3990
	(0.2671)	(0.2260)	(0.2806)
NH Asian vs. NH White	-0.4595	-0.4841	-0.4740
	(0.3220)	(0.3873)	(0.3080)
NH Other vs. NH White	-0.0578	-0.0460	-0.0569
	(0.3042)	(0.3513)	(0.3035)
Hispanic vs. NH White	-1.5710***	-1.6126***	-1.5870***
	(0.3992)	(0.3821)	(0.3966)
Female	-0.3614*	-0.3553*	-0.3626*
	(0.1504)	(0.1542)	(0.1506)
Age 18-34 vs. 65+	2.3981***	2.3434***	2.3702***
	(0.2199)	(0.2661)	(0.2202)
Age 35-44 vs. 65+	1.8478***	1.8036***	1.8297***
	(0.2918)	(0.2939)	(0.2917)
Age 45-54 vs. 65+	1.1617***	1.1467***	1.1622***
5	(0.3144)	(0.2919)	(0.3149)
Age 55-64 vs. 65+	0.9666**	0.9631**	0.9634**
	(0.2914)	(0.3057)	(0.2917)
City on 4-cat urban/rural scale	. ,	0.4252	0.3456
		(0.2227)	(0.2354)
VA BRFSS 2014 SAE outc37_psa_test		-0.6569	-0.8874
		(3.9853)	(3.9571)
VA BRFSS 2014 SAE outc6_doctor_person		-1.4007	-1.8283
		(2.2620)	(2.2843)
o.VA BRFSS 2014 SAE outc37_psa_test		0.0000	
		(.)	
VA BRFSS 2014 SAE outc9_stroke		-9.2238	-5.3853
		(70.2355)	(65.8542)
c.VA14SAE_outc37_psa_test#c.VA14SAE_outc9_stroke		32.1750	21.4476
		(116.6081)	(111.5094)
Intercept	-4.3238***	-3.1323	-2.6298
	(0.2648)	(3.1809)	(3.0735)
Area effect variance			
	0.2630		0.1862





(0.1493)

Number of alternative models used to estimate model error = 15.





Results

County name	County FIPS	Direct estimate	Direct 95% Cl	SAE composite	SAE CI
Augusta County	51015	12.5%	(5.5%, 26.1%)	7.1%	(4.2%, 11.7%)
Bath County	51017	9.9%	(2.0%, 49.9%)	2.8%	(0.9%, 8.2%)
Caroline County	51033	13.1%	(1.9%, 53.4%)	4.5%	(2.9%, 6.8%)
Clarke County	51043	0.0%	(0.0%, 28.2%)	2.3%	(1.3%, 4.1%)
Culpeper County	51047	1.2%	(0.9%, 12.2%)	2.3%	(1.4%, 3.7%)
Fauquier County	51061	6.2%	(2.0%, 17.7%)	3.4%	(2.4%, 4.8%)
Frederick County	51069	6.2%	(1.8%, 19.5%)	3.6%	(2.5%, 5.1%)
Highland County	51091	0.0%	(0.0%, 53.2%)	2.0%	(0.1%, 23.1%)
King George County	51099	0.0%	(0.0%, 36.2%)	2.7%	(1.8%, 4.1%)
Madison County	51113	0.0%	(0.0%, 22.9%)	2.5%	(1.4%, 4.5%)
Orange County	51137	2.3%	(0.9%, 17.3%)	2.6%	(1.7%, 3.8%)
Page County	51139	9.9%	(2.8%, 29.8%)	4.6%	(3.0%, 7.0%)
Rappahannock County	51157	0.0%	(0.0%, 29.2%)	2.4%	(0.7%, 7.8%)
Rockbridge County	51163	3.8%	(0.6%, 19.6%)	3.1%	(1.9%, 5.0%)
Rockingham County	51165	0.2%	(0.2%, 6.0%)	2.3%	(1.1%, 4.7%)
Shenandoah County	51171	5.2%	(1.4%, 17.8%)	3.5%	(2.3%, 5.3%)
Spotsylvania County	51177	7.7%	(2.8%, 19.5%)	4.6%	(3.4%, 6.0%)
Stafford County	51179	3.4%	(1.3%, 8.8%)	3.0%	(2.1%, 4.3%)
Warren County	51187	9.1%	(2.3%, 29.5%)	4.0%	(2.9%, 5.6%)
Buena Vista City	51530	0.0%	(0.0%, 45.0%)	2.7%	(0.4%, 16.3%)
Fredericksburg City	51630	0.0%	(0.0%, 20.9%)	2.9%	(1.5%, 5.6%)
Harrisonburg City	51660	27.9%	(3.7%, 79.7%)	9.4%	(6.0%, 14.4%)
Lexington City	51678	0.0%	(0.0%, 96.3%)	2.8%	(1.7%, 4.6%)
Staunton City	51790	0.0%	(0.0%, 43.5%)	4.3%	(1.8%, 10.0%)
Waynesboro City	51820	0.0%	(0.0%, 42.1%)	4.2%	(2.1%, 8.1%)
Winchester City	51840	25.8%	(4.0%, 74.5%)	6.8%	(3.2%, 13.8%)





1				
-		Direct 95% Cl	SAE composite	SAE CI
	estimate			
51003	3.6%	(1.1%, 11.6%)	3.0%	(2.1%, 4.3%)
51005	29.5%	(6.8%, 70.8%)	7.6%	(5.6%, 10.1%)
51009	0.9%	(0.6%, 19.6%)	2.7%	(1.4%, 5.1%)
51011	0.0%	(0.0%, 18.6%)	2.5%	(1.5%, 4.1%)
51013	7.3%	(2.9%, 17.4%)	5.2%	(3.5%, 7.8%)
51019	1.7%	(1.0%, 7.2%)	2.1%	(1.3%, 3.4%)
51023	5.7%	(0.9%, 28.1%)	3.1%	(1.6%, 5.8%)
51031	9.6%	(3.8%, 22.4%)	6.0%	(4.1% <i>,</i> 8.6%)
51045	16.8%	(1.9%, 67.9%)	2.7%	(1.3%, 5.7%)
51059	4.5%	(3.1%, 6.5%)	3.0%	(2.3%, 3.9%)
51065	16.5%	(4.4%, 45.9%)	5.8%	(3.8% <i>,</i> 8.6%)
51079	0.0%	(0.0%, 36.1%)	3.4%	(2.3%, 5.0%)
51107	2.1%	(0.8%, 5.4%)	2.0%	(1.2%, 3.3%)
51109	11.3%	(2.6%, 37.9%)	4.4%	(3.2%, 6.0%)
51125	0.0%	(0.0%, 29.5%)	2.1%	(1.1%, 3.8%)
51153	1.7%	(0.7%, 3.9%)	1.6%	(1.1%, 2.5%)
51161	11.7%	(4.8%, 25.9%)	6.5%	(4.5% <i>,</i> 9.4%)
51510	4.1%	(1.2%, 12.8%)	3.9%	(2.5%, 6.0%)
51540	7.9%	(2.4%, 22.7%)	6.0%	(3.5%, 10.0%)
51580	0.0%	(0.0%, 87.4%)	2.6%	(0.7%, 9.3%)
51600	2.7%	(0.7%, 9.4%)	3.1%	(1.6%, 5.8%)
51610	0.0%	(0.0%, 25.6%)	2.0%	(0.9%, 4.4%)
51680	7.8%	(2.6%, 21.0%)	6.1%	(3.3%, 11.0%)
51683	0.0%	(0.0%, 33.1%)	2.7%	(1.5%, 4.7%)
51685	0.0%	(0.0%, 76.5%)	2.6%	(1.6%, 4.2%)
51775	0.0%	(0.0%, 42.2%)	3.3%	(2.1%, 5.3%)
	51005 51011 51013 51019 51023 51023 51023 51045 51045 51059 51079 51107 51107 51107 51107 51107 51107 51107 51107 51107 51107 51107 51107 51107 51107 51107 51107 51107 51107 51107 51107 51107 51107 51107 51107 51107 51107 51540 51600 51610 51680 51683 51683	FIPSestimate510033.6%5100529.5%510090.9%510110.0%510137.3%510137.3%510191.7%510235.7%510319.6%5104516.8%510594.5%5106516.5%510790.0%511072.1%511072.1%511250.0%511531.7%515104.1%515407.9%515402.7%516002.7%516100.0%516807.8%516850.0%	FIPSestimate510033.6%(1.1%, 11.6%)5100529.5%(6.8%, 70.8%)510090.9%(0.6%, 19.6%)510110.0%(0.0%, 18.6%)510137.3%(2.9%, 17.4%)510191.7%(1.0%, 7.2%)510235.7%(0.9%, 28.1%)510319.6%(3.8%, 22.4%)5104516.8%(1.9%, 67.9%)510594.5%(3.1%, 6.5%)5106516.5%(4.4%, 45.9%)510790.0%(0.0%, 36.1%)511072.1%(0.8%, 5.4%)5110911.3%(2.6%, 37.9%)511531.7%(0.7%, 3.9%)5116111.7%(4.8%, 25.9%)515104.1%(1.2%, 12.8%)515407.9%(2.4%, 22.7%)515800.0%(0.0%, 87.4%)516002.7%(0.7%, 9.4%)516807.8%(2.6%, 21.0%)516850.0%(0.0%, 76.5%)	FIPSestimate510033.6%(1.1%, 11.6%)3.0%5100529.5%(6.8%, 70.8%)7.6%510090.9%(0.6%, 19.6%)2.7%510110.0%(0.0%, 18.6%)2.5%510137.3%(2.9%, 17.4%)5.2%510191.7%(1.0%, 7.2%)2.1%510235.7%(0.9%, 28.1%)3.1%510319.6%(3.8%, 22.4%)6.0%5104516.8%(1.9%, 67.9%)2.7%510594.5%(3.1%, 6.5%)3.0%5106516.5%(4.4%, 45.9%)5.8%510790.0%(0.0%, 36.1%)3.4%511072.1%(0.8%, 5.4%)2.0%5110911.3%(2.6%, 37.9%)4.4%511250.0%(0.0%, 29.5%)2.1%511531.7%(0.7%, 3.9%)1.6%515104.1%(1.2%, 12.8%)3.9%515407.9%(2.4%, 22.7%)6.0%516002.7%(0.7%, 9.4%)3.1%516100.0%(0.0%, 25.6%)2.0%516807.8%(2.6%, 21.0%)6.1%516830.0%(0.0%, 76.5%)2.6%





		D			4
County name	County	Direct	Direct 95% Cl	SAE composite	SAE CI
	FIPS	estimate			
Bland County	51021	0.0%	(-0.0%, 27.9%)	2.7%	(1.5%, 4.8%)
Buchanan County	51027	0.0%	(0.0%, 18.3%)	2.8%	(1.6%, 5.0%)
Carroll County	51035	0.0%	(0.0%, 15.4%)	2.5%	(1.1%, 5.5%)
Dickenson County	51051	8.9%	(1.7%, 35.3%)	3.9%	(2.5%, 6.1%)
Floyd County	51063	23.8%	(7.1%, 56.1%)	9.9%	(6.8%, 14.2%)
Franklin County	51067	0.0%	(0.0%, 14.6%)	2.3%	(1.4%, 3.7%)
Giles County	51071	6.4%	(1.0%, 30.8%)	5.1%	(3.5%, 7.5%)
Grayson County	51077	2.1%	(1.1%, 24.1%)	2.7%	(1.6%, 4.3%)
Henry County	51089	4.5%	(2.1%, 15.7%)	3.2%	(1.7%, 5.8%)
Lee County	51105	6.7%	(1.0%, 32.9%)	4.2%	(2.7%, 6.4%)
Montgomery County	51121	9.1%	(2.9%, 25.3%)	6.8%	(4.5%, 9.9%)
Patrick County	51141	6.9%	(1.1%, 33.8%)	3.0%	(1.9%, 4.8%)
Pittsylvania County	51143	6.2%	(2.3%, 15.7%)	3.7%	(2.8%, 5.0%)
Pulaski County	51155	13.1%	(2.8%, 44.4%)	9.0%	(4.7%, 16.7%)
Russell County	51167	9.5%	(2.4%, 31.6%)	5.1%	(3.2%, 7.9%)
Scott County	51169	19.7%	(4.8%, 54.3%)	6.3%	(3.8%, 10.1%)
Smyth County	51173	0.0%	(0.0%, 26.5%)	2.9%	(1.7%, 5.1%)
Tazewell County	51185	7.6%	(2.2%, 23.1%)	4.5%	(2.9%, 6.9%)
Washington County	51191	1.2%	(0.8%, 9.0%)	2.3%	(1.4%, 3.7%)
Wise County	51195	4.5%	(1.2%, 15.8%)	3.3%	(1.6%, 6.8%)
Wythe County	51197	8.5%	(2.4%, 25.6%)	4.3%	(2.6%, 7.0%)
Bristol City	51520	0.0%	(0.0%, 78.6%)	3.8%	(1.6%, 8.9%)
Danville City	51590	5.7%	(0.9%, 28.5%)	4.0%	(0.9%, 15.6%)
Galax City	51640	0.0%	(0.0%, 76.1%)	3.1%	(1.6%, 5.8%)
Martinsville City	51690	28.8%	(3.6%, 81.3%)	5.6%	(1.3%, 21.5%)
Norton City	51720	50.9%	(11.5%, 89.2%)	6.9%	(2.4%, 18.1%)
Radford City	51750	9.0%	(1.3%, 42.4%)	8.8%	(2.8%, 24.4%)
Roanoke City	51770	3.3%	(1.7%, 10.7%)	3.8%	(2.0%, 6.9%)





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County name	County	Direct	Direct 95% Cl	SAE composite	SAE CI
	FIPS	estimate			
Amelia County	51007	11.8%	(3.1%, 36.1%)	3.6%	(2.5%, 5.2%)
Brunswick County	51025	0.0%	(0.0%, 21.3%)	3.4%	(0.8%, 13.6%)
Buckingham County	51029	0.0%	(0.0%, 18.5%)	2.3%	(1.3%, 4.3%)
Charles City County	51036	0.0%	(0.0%, 58.8%)	2.4%	(1.4%, 4.3%)
Charlotte County	51037	0.0%	(0.0%, 15.4%)	2.5%	(1.5%, 4.0%)
Chesterfield County	51041	3.8%	(1.6%, 9.1%)	2.8%	(2.0%, 3.8%)
Cumberland County	51049	0.0%	(0.0%, 21.7%)	2.7%	(1.4%, 5.4%)
Dinwiddie County	51053	0.4%	(0.3%, 22.1%)	2.5%	(1.6%, 3.8%)
Goochland County	51075	8.3%	(1.8%, 31.6%)	3.3%	(2.0%, 5.2%)
Greensville County	51081	0.0%	(0.0%, 39.7%)	3.4%	(1.8%, 6.4%)
Halifax County	51083	4.7%	(1.5%, 14.3%)	3.5%	(2.3%, 5.2%)
Hanover County	51085	2.8%	(0.5%, 13.3%)	2.6%	(1.6%, 4.2%)
Henrico County	51087	5.5%	(2.6%, 11.0%)	3.6%	(2.7%, 4.8%)
Lunenburg County	51111	0.0%	(0.0%, 29.7%)	2.7%	(1.6%, 4.4%)
Mecklenburg County	51117	1.2%	(0.5%, 9.5%)	2.4%	(1.5%, 3.7%)
New Kent County	51127	14.3%	(3.4%, 43.8%)	4.3%	(2.3%, 7.7%)
Nottoway County	51135	0.0%	(0.0%, 34.9%)	3.2%	(2.0%, 5.0%)
Powhatan County	51145	1.7%	(1.0%, 23.0%)	2.6%	(1.3%, 5.3%)
Prince Edward County	51147	5.3%	(1.1%, 22.2%)	3.0%	(1.8%, 4.8%)
Prince George County	51149	7.3%	(2.1%, 23.0%)	3.5%	(2.5%, 4.8%)
Surry County	51181	0.0%	(-0.0%, 33.3%)	2.3%	(1.3%, 3.9%)
Sussex County	51183	0.0%	(-0.0%, 15.6%)	2.7%	(1.3%, 5.6%)
Colonial Heights City	51570	15.7%	(4.7%, 41.3%)	6.2%	(2.5%, 14.9%)
Emporia City	51595	0.0%	(0.0%, 91.8%)	4.0%	(1.0%, 14.1%)
Hopewell City	51670	2.2%	(1.1%, 23.5%)	3.6%	(1.6%, 7.7%)
Petersburg City	51730	4.0%	(2.4%, 17.3%)	3.4%	(1.8%, 6.2%)
Richmond City	51760	4.7%	(1.6%, 13.6%)	4.1%	(2.6%, 6.5%)





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County name	County	Direct	Direct 95% Cl	SAE composite	SAE CI
	FIPS	estimate			
Accomack County	51001	0.0%	(0.0%, 9.4%)	1.7%	(1.0%, 2.9%)
Essex County	51057	0.5%	(0.3%, 27.8%)	2.0%	(1.0%, 4.2%)
Gloucester County	51073	4.3%	(1.0%, 17.3%)	2.6%	(1.5%, 4.5%)
Isle of Wight County	51093	0.0%	(0.0%, 16.5%)	2.4%	(1.5%, 3.7%)
James City County	51095	0.0%	(0.0%, 6.6%)	2.0%	(1.3%, 3.1%)
King and Queen County	51097	11.7%	(1.7%, 50.6%)	3.2%	(2.0%, 5.1%)
King William County	51101	0.0%	(0.0%, 29.7%)	2.5%	(1.5%, 4.1%)
Lancaster County	51103	0.0%	(0.0%, 40.1%)	4.9%	(0.7%, 26.5%)
Mathews County	51115	0.0%	(-0.0%, 23.6%)	2.1%	(1.1%, 4.0%)
Middlesex County	51119	0.0%	(0.0%, 20.1%)	2.0%	(1.2%, 3.2%)
Northampton County	51131	7.7%	(1.6%, 30.2%)	3.8%	(2.8%, 5.2%)
Northumberland County	51133	1.4%	(0.8%, 21.1%)	2.8%	(1.3%, 5.6%)
Richmond County	51159	2.9%	(0.5%, 14.3%)	2.3%	(1.4%, 3.8%)
Southampton County	51175	11.7%	(1.7%, 50.0%)	4.3%	(2.8%, 6.6%)
Westmoreland County	51193	32.1%	(7.2%, 74.3%)	6.4%	(3.5%, 11.5%)
York County	51199	4.4%	(1.0%, 17.7%)	3.1%	(1.9%, 4.9%)
Chesapeake City	51550	1.2%	(0.4%, 3.7%)	1.8%	(1.3%, 2.7%)
Franklin City	51620	0.0%	(0.0%, 23.8%)	3.3%	(1.4%, 7.9%)
Hampton City	51650	6.2%	(2.9%, 12.8%)	4.4%	(3.0%, 6.5%)
Newport News City	51700	3.1%	(1.2%, 8.0%)	3.3%	(2.3%, 4.7%)
Norfolk City	51710	8.2%	(3.5%, 18.1%)	6.2%	(4.3%, 8.9%)
Poquoson City	51735	17.0%	(2.0%, 67.3%)	3.3%	(1.9%, 5.9%)
Portsmouth City	51740	6.6%	(2.8%, 14.8%)	5.2%	(3.2%, 8.4%)
Suffolk City	51800	0.0%	(0.0%, 7.3%)	1.8%	(1.1%, 3.0%)
Virginia Beach City	51810	8.5%	(4.7%, 14.7%)	6.3%	(4.4%, 8.8%)
Williamsburg City	51830	0.0%	(0.0%, 64.5%)	2.4%	(0.7%, 8.1%)





Graphical representation

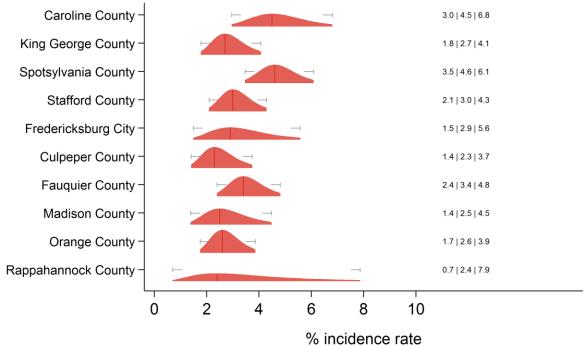
Current E-Cigarette Use Central Shenandoah and Lord Fairfax HDs

1		
Augusta County -	H H	4.2 7.1 11.7
Bath County -	F	0.9 2.8 8.3
Highland County -	H H	0.1 2.0 25.2
Rockbridge County -	+	1.9 3.1 5.0
Rockingham County -	H I	1.1 2.3 4.7
Buena Vista City -		0.4 2.7 17.2
Harrisonburg City -	F H	6.0 9.4 14.5
Lexington City –	H H	1.7 2.8 4.7
Staunton City -	F 4	1.8 4.3 10.1
Waynesboro City -		2.1 4.2 8.1
Clarke County -		1.3 2.3 4.1
Frederick County -	⊢	2.5 3.6 5.1
Page County -		3.0 4.6 7.0
Shenandoah County -	F I	2.3 3.5 5.3
Warren County -		2.9 4.0 5.6
Winchester City –	F H	3.2 6.8 13.9
l		
	0 5 10 15 20 25	30
	% incidence rate	





Current E-Cigarette Use Rappahannock/Rapidan and Rappahannock HDs







Current E-Cigarette Use Thomas Jefferson and Piedmont HDs

Т

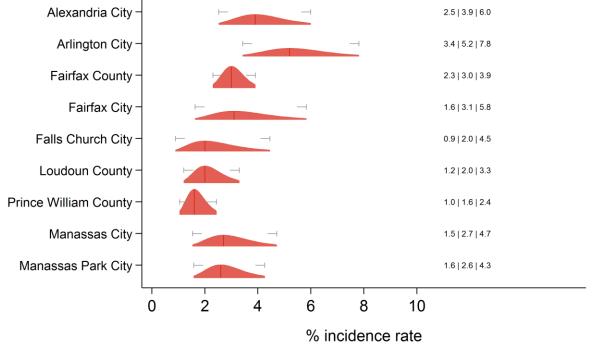
Albemarle County -	F	-		2.1 3.0 4.3
Fluvanna County -			-	3.9 5.8 8.6
Greene County -	-	-		2.3 3.4 5.0
Louisa County -				3.2 4.4 6.1
Nelson County -	F	-		1.1 2.1 3.8
Charlottesville City -		F	-1	3.5 6.0 10.1
Amelia County -	H	-		2.5 3.6 5.2
Buckingham County -	F			1.2 2.3 4.2
Charlotte County -	H	-1		1.5 2.5 4.1
Cumberland County -	F	-		1.3 2.7 5.4
Lunenburg County –	F	-		1.6 2.7 4.4
Nottoway County -	F	-1		2.0 3.2 5.1
Prince Edward County -	F	-		1.8 3.0 4.9
	0	5	10	15
		04 :		

% incidence rate





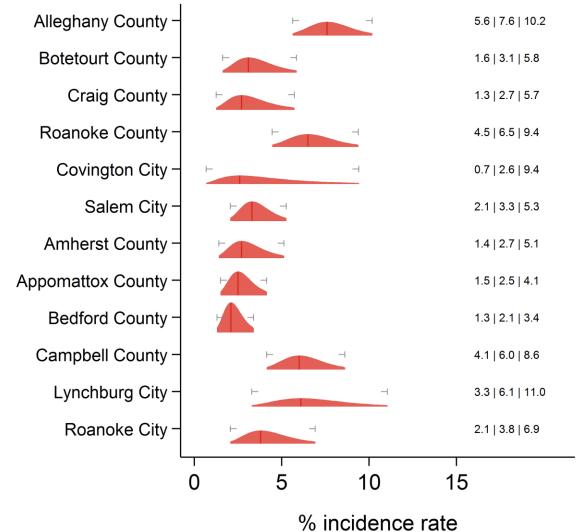
Current E-Cigarette Use Alexandria, Fairfax, Arlington, Loudon, Prince William HDs







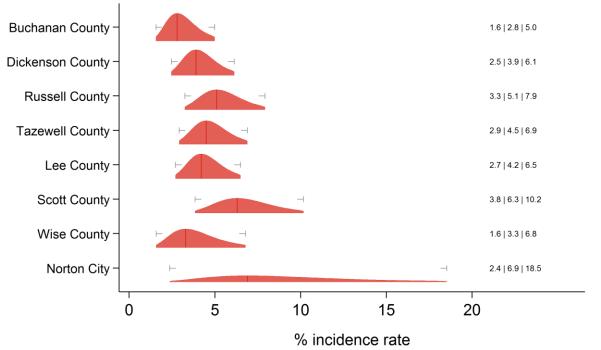
Current E-Cigarette Use Alleghany, Roanoke and Central Virginia HDs







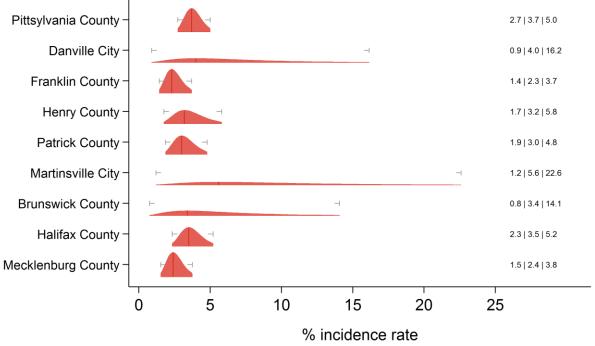
Current E-Cigarette Use Cumberland Plateau and Lenowisco HDs







Current E-Cigarette Use Pittsylvania/Danville, Southside and West Piedmont HDs







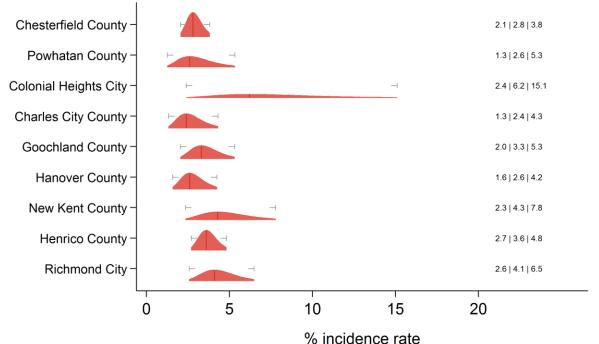
Current E-Cigarette Use New River and Mount Rogers HDs

Bland County -	F 4	1.5 2.7 4.8
Carroll County -		1.1 2.5 5.5
Grayson County -		1.7 2.7 4.3
Smyth County -		1.6 2.9 5.1
Washington County -		1.4 2.3 3.7
Wythe County -	H	2.6 4.3 7.0
Bristol City -	F 4	1.6 3.8 9.0
Galax City -		1.6 3.1 5.8
Floyd County -	F -1	6.8 9.9 14.2
Giles County -		3.5 5.1 7.5
Montgomery County –	F	4.6 6.8 10.0
Pulaski County -	H -	4.6 9.0 16.8
Radford City -	н н	2.7 8.8 25.2
L	0 5 10 15 20 25	30
	% incidence rate	





Current E-Cigarette Use Chesterfield, Chickahominy, Henrico and Richmond HDs







Current E-Cigarette Use Crater, Peninsula and Hampton HDs

Dinwiddie County-		1.6 2.5 3.9
Greensville County -		1.8 3.4 6.4
Prince George County -		2.5 3.5 4.9
Surry County -		1.3 2.3 3.9
Sussex County -		1.3 2.7 5.6
Emporia City -	F	⊣ 1.0 4.0 14.4
Hopewell City –		1.6 3.6 7.7
Petersburg City -		1.8 3.4 6.3
Hampton City -		3.0 4.4 6.5
James City County -	⊢	1.3 2.0 3.1
York County –		1.9 3.1 4.9
Newport News City -		2.3 3.3 4.7
Poquoson City –		1.8 3.3 5.9
Williamsburg City -		0.7 2.4 8.2
l	0 5 10	15

% incidence rate





Current E-Cigarette Use Eastern Shore and Three Rivers HDs

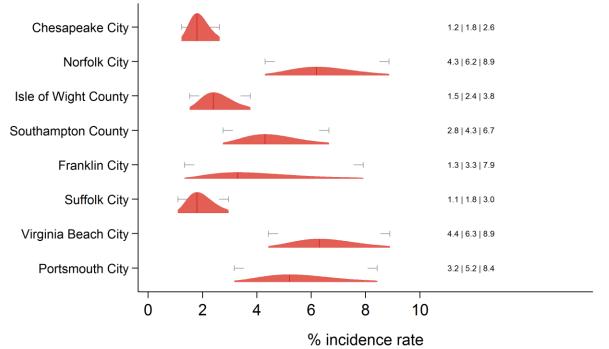
Т

Accomack County -	۲	-1					1.0 1.7 2.8
Northampton County -		F H					2.8 3.8 5.2
Essex County -	۲	Ч					1.0 2.0 4.1
Gloucester County -	F	-					1.5 2.6 4.5
King and Queen County -	ł						2.0 3.2 5.2
King William County -	F	4					1.5 2.5 4.2
Lancaster County -	F						d 0.7 4.9 28.8
Mathews County -	۲	-					1.1 2.1 4.0
Middlesex County -	٢	-					1.2 2.0 3.2
Northumberland County -	F	-					1.4 2.8 5.6
Richmond County -	٢	н					1.4 2.3 3.7
Westmoreland County -		ŀ	Н				3.5 6.4 11.6
	0	5	10	15	20	25	30
			% i	ncid	ence	rate	





Current E-Cigarette Use Norfolk,Portsmouth,Chesapeake,VA Beach,W. Tidewater HDs







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: 130 areas.

SAE estimate is outside the 95% direct Wilson CI: 3 areas.

SAE Wilson 95% CI is fully inside the 95% direct Wilson CI: 112 areas.

SAE Wilson 95% CI partially overlaps with the 95% direct Wilson CI: 21 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: 84 areas.

SAE standard error is greater that the (nonzero) direct standard error: 3 areas.

Direct standard error is zero: 46 areas.

Proportion of SAE variance due to ACS sampling error: min = 0.02%; med = 0.84%; max = 2.59%.

Proportion of SAE variance due to sampling error in regression coefficient estimates: min = 10.16%; med = 71.55%; max = 97.49%.

Proportion of SAE variance due to model selection: min = 0.29%; med = 8.29%; max = 89.14%.

Proportion of SAE variance due to area random effects: min = 0.68%; med = 15.93%; max = 52.04%.