

Smoking and Obesity

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4/26/2022

github repository: <https://github.com/michpelle/tobaccoObesity>

Table and Figures

Year	Cigarette Sales Per Capita	Obesity Rate	Percent Change in Cigarette Sales	Percent Change in Obesity
2011	52.54	27.74	NA	NA
2012	50.82	28.00	-3.27	0.94
2013	48.93	28.82	-3.72	2.93
2014	46.71	29.34	-4.54	1.81
2015	46.35	29.53	-0.77	0.67
2016	45.12	30.09	-2.64	1.87
2017	43.59	30.96	-3.39	2.89
2018	41.11	31.63	-5.68	2.19

% Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac at gmail.com % Date and time: Mon, May 02, 2022 - 17:15:02

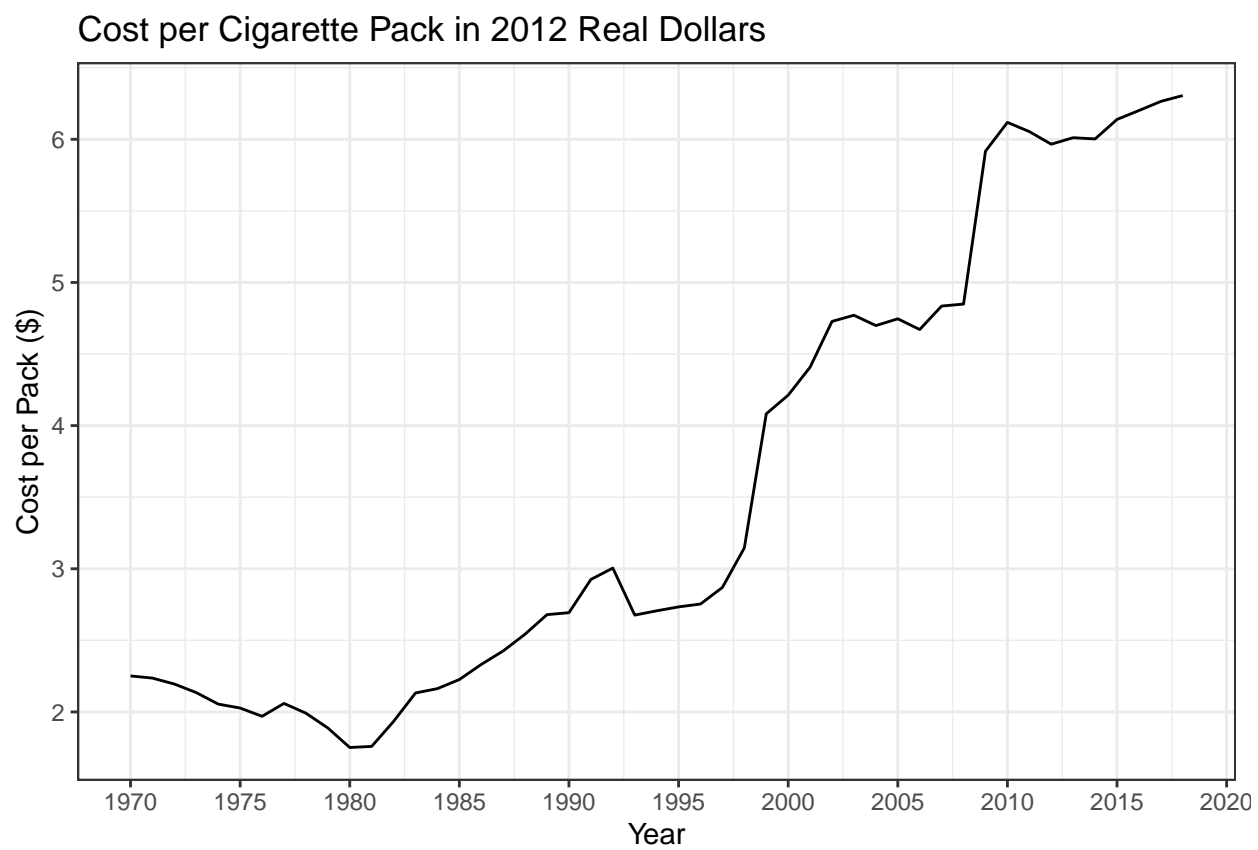


Figure 1:

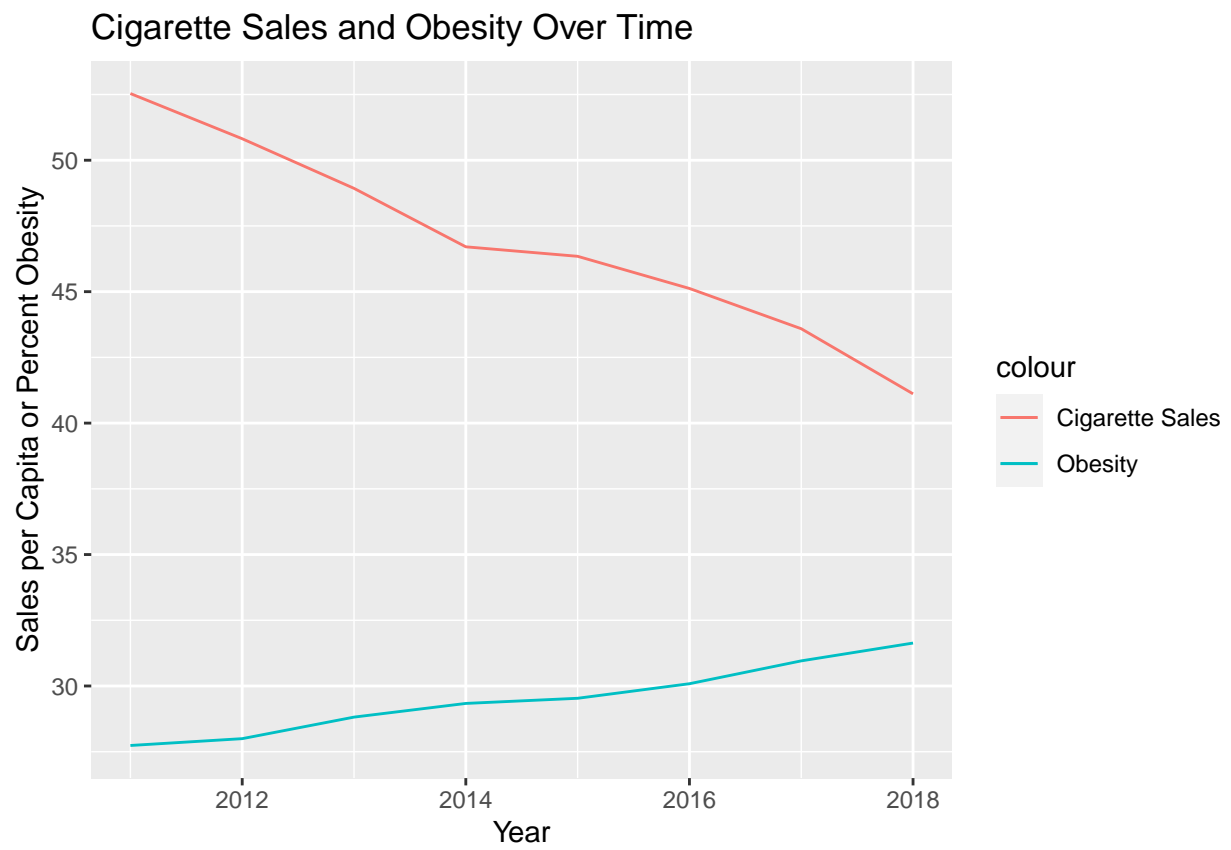


Figure 2:

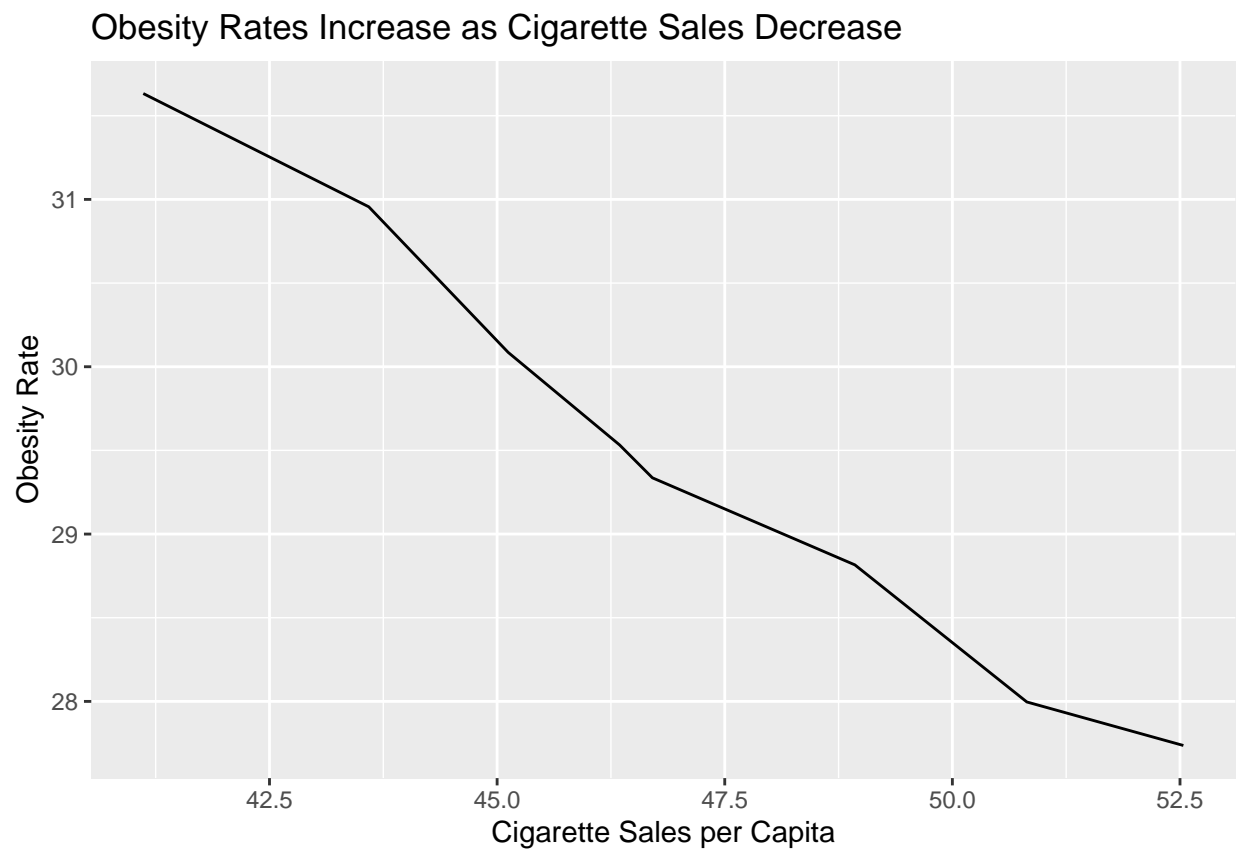


Figure 3:

Table 2:

	<i>Dependent variable:</i>	
	sales_per_capita	
	<i>OLS</i>	
	(1)	(2)
	firstStagePrice	firstStageTaxes
cost_per_pack	−9.477*** (0.539)	
tax_dollar		−12.021*** (0.728)
Constant	106.824*** (3.487)	78.393*** (2.053)
Observations	408	408
R ²	0.432	0.402
Adjusted R ²	0.431	0.400
Residual Std. Error (df = 406)	14.956	15.355
F Statistic (df = 1; 406)	309.353***	272.648***
<i>Note:</i>	*p<0.1; **p<0.05; ***p<0.01	

Table 3:

Dependent variable:						
	OLS			ln_obesity		
	(1) ols	(2) stateFEols	(3) stateYearFEols	(4) iv	instrumental variable (5) stateFEiv	(6) stateYearFEiv
ln_sales	0.145*** (0.011)	-0.368*** (0.022)	0.010 (0.034)	0.153*** (0.016)	-0.368*** (0.022)	0.010 (0.034)
Constant	2.835*** (0.043)			2.804*** (0.061)		
State Fixed Effects	No	Yes	Yes	No	Yes	Yes
Year Fixed Effects	No	No	Yes	No	No	Yes
Observations	408	408	408	408	408	408
R2	0.285	1.000	1.000	0.285	1.000	1.000
Adjusted R2	0.284	1.000	1.000	0.283	1.000	1.000
Residual Std. Error	0.102 (df = 406)	0.043 (df = 356)	0.035 (df = 349)	0.102 (df = 406)	0.043 (df = 356)	0.035 (df = 349)
F Statistic	162.205*** (df = 1; 406)	48,425.530*** (df = 52; 356)	63,040.500*** (df = 59; 349)			

Note: *p<0.1; **p<0.05; ***p<0.01

Table 4:

	<i>Dependent variable:</i>	
	ln_sales	ln_obesity
	<i>OLS</i>	<i>OLS</i>
	(1)	(2)
	firstStage	reducedForm
ln_cost	-1.541*** (0.076)	-0.234*** (0.027)
Constant	6.562*** (0.139)	3.806*** (0.049)
Observations	408	408
R ²	0.506	0.159
Adjusted R ²	0.505	0.157
Residual Std. Error (df = 406)	0.314	0.111
F Statistic (df = 1; 406)	415.895***	76.633***
<i>Note:</i>	*p<0.1; **p<0.05; ***p<0.01	