

Appendix

Appendix

Descriptive Statistics

Robustness Tests

Table 1: Robustness test model 1 for the years 2000-2004

	<i>Dependent variable:</i>				
	F10.0 Diagnoses per 1000 capita				
	2000	2001	2002	2003	2004
GDP per capita	−0.02** (0.01)	−0.02* (0.01)	−0.02* (0.01)	−0.02** (0.01)	−0.02** (0.01)
Unemployment rate	−0.04*** (0.01)	−0.04** (0.02)	−0.04** (0.02)	−0.05*** (0.01)	−0.04** (0.01)
Population density	0.0001* (0.0001)	0.0000 (0.0001)	−0.0000 (0.0001)	−0.0000 (0.0001)	−0.0001 (0.0001)
(Intercept)	1.63*** (0.31)	1.72*** (0.42)	1.75*** (0.39)	2.01*** (0.39)	2.15*** (0.39)
Observations	16	16	16	16	16
R ²	0.49	0.40	0.52	0.60	0.63
Adjusted R ²	0.36	0.26	0.40	0.50	0.54
Residual Std. Error (df = 12)	0.15	0.21	0.19	0.20	0.20
F Statistic (df = 3; 12)	3.79**	2.72*	4.32**	6.06***	6.80***

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 2: Robustness test model 1 for the years 2005-2009

	<i>Dependent variable:</i>				
	F10.0 Diagnoses per 1000 capita				
	2005	2006	2007	2008	2009
GDP per capita	-0.02 (0.01)	-0.02 (0.01)	-0.01 (0.01)	-0.02 (0.01)	-0.02 (0.01)
Unemployment rate	-0.02 (0.02)	-0.03 (0.02)	-0.02 (0.03)	-0.04 (0.03)	-0.05 (0.03)
Population density	-0.0001 (0.0001)	-0.0001 (0.0001)	-0.0002 (0.0001)	-0.0002 (0.0001)	-0.0001 (0.0001)
(Intercept)	1.89*** (0.50)	1.96*** (0.57)	1.95*** (0.58)	2.36*** (0.58)	2.52*** (0.60)
Observations	16	16	16	16	16
R ²	0.50	0.45	0.52	0.58	0.62
Adjusted R ²	0.37	0.31	0.40	0.48	0.53
Residual Std. Error (df = 12)	0.24	0.28	0.28	0.29	0.27
F Statistic (df = 3; 12)	3.96**	3.28*	4.35**	5.60**	6.55***

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 3: Robustness test model 1 for the years 2010-2014

	<i>Dependent variable:</i>				
	F10.0 Diagnoses per 1000 capita				
	2010	2011	2012	2013	2014
GDP per capita	-0.01 (0.01)	-0.01 (0.01)	-0.01 (0.01)	-0.01 (0.01)	-0.01 (0.01)
Unemployment rate	-0.03 (0.04)	-0.03 (0.04)	-0.03 (0.04)	-0.03 (0.04)	-0.03 (0.04)
Population density	-0.0002 (0.0001)	-0.0002 (0.0001)	-0.0002* (0.0001)	-0.0002 (0.0001)	-0.0002* (0.0001)
(Intercept)	2.03** (0.67)	2.16*** (0.61)	2.18*** (0.59)	2.27*** (0.58)	2.23*** (0.59)
Observations	16	16	16	16	16
R ²	0.51	0.59	0.60	0.61	0.59
Adjusted R ²	0.38	0.49	0.50	0.51	0.48
Residual Std. Error (df = 12)	0.30	0.27	0.27	0.27	0.28
F Statistic (df = 3; 12)	4.09**	5.86**	6.05***	6.14***	5.64**

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 4: Regression results for Model 2 with first differenced data

	<i>Dependent variable:</i>		
	Change in F10.0 F10.0	Change in F10.2 F10.2	Change in K70 K70
GDP Change	0.02*** (0.01)	−0.01 (0.01)	0.002 (0.002)
Unemployment Change	−0.01 (0.01)	−0.03** (0.01)	0.002 (0.003)
Observations	224	224	224
R ²	0.09	0.02	0.004
Adjusted R ²	0.08	0.02	−0.005
Residual Std. Error (df = 222)	0.11	0.18	0.04
F Statistic (df = 2; 222)	10.88***	2.72*	0.48
<i>Note:</i>		*p<0.1; **p<0.05; ***p<0.01	

Table 5: Model 3 Simple Diff-in-Diff

	<i>Dependent variable:</i>	
	F10.0 cases per 1000 PP (all ages) (3) All states + ages	(3) non-city states + all ages
BW night sale ban	0.12 (0.12)	0.04 (0.11)
Post-ban dummy	0.43*** (0.05)	0.48*** (0.05)
Interaction dummy	−0.11 (0.21)	−0.16 (0.18)
(Intercept)	0.96*** (0.03)	1.04*** (0.03)
Observations	255	210
R ²	0.23	0.32
Adjusted R ²	0.22	0.31
Residual Std. Error	0.37 (df = 251)	0.32 (df = 206)
F Statistic	24.37*** (df = 3; 251)	32.66*** (df = 3; 206)

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 6: Model 3 Simple Diff-in-Diff for 15-19 year old

	<i>Dependent variable:</i>	
	F10.0 cases per 1000 PP among 15-19 year olds	
	(3) All states + 15-19y	(3) non-city states + 15-19y
BW night sale ban	0.04 (0.03)	0.02 (0.02)
Post-ban dummy	0.06*** (0.01)	0.07*** (0.01)
Interaction dummy	0.01 (0.05)	0.01 (0.04)
(Intercept)	0.16*** (0.01)	0.18*** (0.01)
Observations	255	210
R ²	0.14	0.18
Adjusted R ²	0.13	0.16
Residual Std. Error	0.08 (df = 251)	0.07 (df = 206)
F Statistic	14.16*** (df = 3; 251)	14.68*** (df = 3; 206)

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 7: Model 4 Simple Diff-in-Diff with controls

	<i>Dependent variable:</i>		
	F10.0 cases per 1000 PP (different age groups)		
	(4) All states + ages	(4) All states + 15-19y	(4) non-city states + 15-19y
BW night sale ban	−0.16 (0.11)	−0.03 (0.02)	−0.04 (0.02)
Post-ban dummy	0.32*** (0.05)	0.03** (0.01)	0.03** (0.01)
GDP per capita	−0.02*** (0.003)	−0.003*** (0.001)	0.01*** (0.001)
Youth unemployment	−0.06*** (0.01)	−0.01*** (0.001)	−0.002 (0.002)
Interaction dummy	0.04 (0.18)	0.04 (0.04)	0.003 (0.04)
(Intercept)	2.30*** (0.13)	0.40*** (0.03)	0.06 (0.06)
Observations	240	240	195
R ²	0.46	0.38	0.40
Adjusted R ²	0.45	0.36	0.39
Residual Std. Error	0.32 (df = 234)	0.07 (df = 234)	0.06 (df = 189)
F Statistic	40.27*** (df = 5; 234)	28.47*** (df = 5; 234)	25.38*** (df = 5; 189)

Note:

*p<0.1; **p<0.05; ***p<0.01