Supplementary Materials: Does Unstable Employment Have an Association with Suicide Rates among the Young?

Chungah Kim [1] and Youngtae Cho [2,*]

The results of fixed effects model analysis between employment conditions and gender-specific suicide rates among 20 OECD countries are presented in tables below.

Table S1. Fixed effects model for gender- and age- specific suicide rates.

Explanatory Variables	Dependent Variables			
	Male Suicide Rates		Female Suicide Rates	
	Age-Group 25–29	Age-Group 30–34	Age-Group 25–29	Age-Group 30–34
Unemployment	0.246 (0.195)	−0.023 (0.198)	−0.104 (0.104)	−0.009 (0.101)
EPR	−3.107 * (1.908)	−5.979 *** (1.940)	−2.787 *** (1.017)	−2.745*** (0.982)
EPT	−0.912 (0.974)	−1.670 * (0.990)	−0.420 (0.519)	0.098 (0.501)
Unemployment × EPT	−0.023 (0.080)	0.029 (0.082)	0.011 (0.043)	−0.023 (0.041)
Economic growth rate	0.054 (0.135)	−0.023 (0.137)	−0.072 (0.072)	−0.005 (0.069)
GDP per capita	−4.527 *** (1.752)	−6.835 *** (1.780)	−3.236 *** (0.934)	−3.194 *** (0.902)
Divorce rate	1.432 (0.952)	2.800 *** (0.967)	−0.716 (0.507)	0.595 (0.490)
Fertility rate	−5.402 ** (2.736)	−2.546 (2.781)	−8.461 *** (1.458)	−7.114 *** (1.409)
R^2	0.850	0.879	0.797	0.792
Within-country R^2	0.218	0.196	0.258	0.267
Observations	323	323	323	323

Numbers in parentheses are robust standard errors. The size of date is 323 due to missing observations p; for some countries, instead of 340 during 1994–2000 (for 17 years) of 20 countries. * $p < 0.10$; ** $p < 0.05$; *** $p < 0.01$.

Table S2. Random effects model for gender- and age- specific suicide rates.

Explanatory Variables	Dependent variables			
	Male Suicide Rates		Female Suicide Rates	
	Age-Group 25–29	Age-Group 30–34	Age-Group 25–29	Age-Group 30–34
Unemployment	0.249 (0.184)	−0.052 (0.186)	−0.079 (0.101)	−0.027 (0.810)
EPR	−4.229 *** (1.422)	−5.997 *** (1.464)	−2.613 *** (0.799)	−2.381 *** (0.738)
EPT	−1.214 (0.905)	−1.650* (0.915)	−0.658 (0.500)	−0.064 (0.483)
Unemployment × EPT	−0.019 (0.077)	0.047 (0.077)	0.042 (0.042)	0.003 (0.041)
Economic growth rates	−0.118 (0.094)	−0.053 (0.186)	−0.066 (0.00)	−0.052 (0.081)
GDP per capita	−2.287* (1.183)	−4.450*** (1.202)	−0.182 (0.656)	−0.023 (0.627)
Divorce rate	1.697* (0.873)	3.113*** (0.885)	−0.475 (0.483)	0.781 * (0.464)
Fertility rate	−0.610 (2.252)	1.877 (2.282)	−4.330 *** (1.246)	−2.948 ** (1.198)
intercept	52.498 ***(12.100)	75.769 *** (12.304)	22.032 *** (6.717)	15.135 ** (6.402)
Observations	323	323	323	323

Numbers in parentheses are robust standard errors. The size of date is 323 due to missing observations p; for some countries, instead of 340 during 1994–2000 (for 17 years) of 20 countries. * $p < 0.10$; ** $p < 0.05$; *** $p < 0.01$.

Table S3. Generalized estimating equation model for gender- and age- specific suicide rates.

Explanatory Variables	**Dependent Variables**			
	Male Suicide Rates		**Female Suicide Rates**	
	Age-Group 25–29	**Age-Group 30–34**	**Age-Group 25–29**	**Age-Group 30–34**
Unemployment	0.262 (0.207)	−0.036 (0.216)	−0.120 (0.117)	−0.027 (0.111)
EPR	−4.086 *** (1.493)	−5.829 *** (1.557)	−2.550 *** (0.877)	−2.427 *** (0.799)
EPT	−0.993 (0.998)	−1.362 (1.042)	−0.492 (0.566)	0.026 (0.534)
Unemployment × EPT	−0.017 (0.085)	0.016 (0.089)	0.018 (0.048)	−0.015 (0.046)
Economic growth rates	0.040 (0.147)	−0.035 (0.153)	−0.087 (0.083)	−0.025 (0.078)
GDP per capita	−2.953 * (1.555)	−6.091 *** (1.621)	−1.752 * (0.900)	−1.647 ** (0.831)
Divorce rate	2.180 ** (0.963)	3.477 *** (1.005)	−0.237 (0.549)	0.984 * (0.515)
Fertility rate	−2.512 (2.685)	−0.138 (2.801)	−6.845 *** (1.533)	−5.549 ** (1.435)
intercept	56.011 *** (17.511)	89.709 *** (18.262)	42.769 *** (10.131)	35.713 *** (9.363)
Observations	323	323	323	323

Numbers in parentheses are robust standard errors. The size of date is 323 due to missing observations p; for some countries, instead of 340 during 1994-2000 (for 17 years) of 20 countries. * $p < 0.10$; ** $p < 0.05$; *** $p < 0.01$.

© 2017 by the authors; licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons by Attribution (CC-BY) license (http://creativecommons.org/licenses/by/4.0/)