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Economic policy and health sector

Example 1 - what influences the economic impact

Multipliers:	Output		Income		Value added		log(Employment)		Import	
Explenatory variables:	Coef.	Prob.	Coef.	Prob.	Coef.	Prob.	Coef.	Prob.	Coef.	Prob.
X01	0.030	0.001	0.005	0.091	0.004	0.057			-0.001	0.106
X02	-0.001	0.001								
X03									-0.012	0.038
X04	-0.038	0.004								
X05					0.011	0.051			-0.006	0.002
X06							-1.253	0.000		
X07							-0.343	0.020		
X08							-0.524	0.000		
X09									0.001	0.052
X10									-0.008	0.001
c	2.416	0.000	0.332	0.112	0.503	0.055	3.454	0.009	1.043	0.000
R-squared	0.673		0 159		0 305		0.975		0.888	

X01 - government and compulsory health insurance schemes (% of current expenditure on health), X02 - expenditure on health (per capita, USS purchasing power parities), X03 - expenditure on health (% of gross domestic product), X04 - expenditure on pharmaceuticals and other medical non-durables (% of current expenditure on health), X05 - Gini coefficient of equalised disposable income (EU-SILC survey), X06 - log of GDP per capita, X07 - log of constant returns to scale efficiency (Storto, 2017), X08 - log of total pharmaceutical expenditure (% of total health expenditure), X09 - % of urban population, X10 - healthy life years expectancy at birth, C - regression constant.

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Example 2 – economic properties and epidemic outcome

	Model 1 LOG(Deaths - cumulative	Model 2	Model 3 Deaths - cumulative	Areas of	Types of	
Covid 19 outcome variable		total	total	possible policy	possible policy	
	Coefficient Prob.	Coefficient Prob.	Coefficient Prob.	measures	measures	
South America	-1.381***	coefficient Flob.	coefficient Flob.			
Africa	-1.856***				No policy measures	
Asia	-1.894 ***	-0.639*	-0.7105*	Regional characteristics	possible	
Oceania	-3.360***	-2.828***	-4.8998***		possible	
Covid 19 Cases - cumulative total	0.307***	-2.020	-4.0330			
Covid 19 virus clade 20A	0.024	0.030	0.4856	Virus characteristics	No policy measures	
Covid 19 virus clade 20B	0.250*	0.240*	0.6210***	virus churacteristics	possible	
Share of population older than 65	-0.587**	0.240	0.0210			
Share of the population living in urban areas	1.713***		2.0748**	Population	Long- and mid-term policy	Complexity
Mean BMI (male and female)	1.715	3.872 **	9.9473***	characteristics	measures possible	
Female employment-to-population ratio	-1.266***	0.012			Long-, mid-, and short-term	of possible
Gini index of consumption		-1.814**	-3.9628***	Equality characteristics	5 policy measures possible	policy
Share of public health care sector		-0.478*	-0.9352**	Health sector	Long-, mid-, and short-term	measures
Healthcare Access and Quality Index			-3.9142**	characteristics	policy measures possible	
GDP per capita, PPP (constant 2011						
international \$)		-0.393*				
High-Tech export (share of manufactured				National economy	Long-, mid-, and short-term	
exports)		-0.350 **	-0.7123***	characteristics	policy measures possible	
FDI country attractiveness		5.063 ***	6.7496***			
Share of the agriculture sector	-0.393*					
Google mobility measures		0.451***	0.4016***	Cultural characteristics	Short-term policy measures possible	
Constant	0.101	-5.472 ***	-11.4865***			
Sample	78	61	61	1		
R-squared	0.734	0.664	0 7918			

JAGRIČ, Timotej, FISTER, Dušan., JAGRIČ, Vita. Reshaping the Health-care with Economic Policy Measures Based on COVID Epidemic Severity: A Global Study. UNDER REVIEW -2021

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