

Supplementary information

VULNERABILITY AND RESILIENCE IN HEALTH CRISES. EVIDENCE FROM EUROPEAN COUNTRIES

Gina Cristina DIMIAN, Simona Andreea APOSTU, Maria Denisa VASILESCU,
Mirela Ionela ACELEANU, Josef JABLONSKY

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Supplementary 1

Description of the variables

Description	N	MIN	MAX	MEAN	STD. DEV
Covid-19 Indicators					
*Covid-19 Cases/100,000 population	48	2.62	1029.2	138.9	206.0
*Covid-19 Deaths/100,000 population	48	0.04	101.2	7.9	17.0
*Case fatality rate (%)	48	0.27	15.1	4.1	3.7
**Number of tests for Covid-19/100,000 population	41	26.52	42625.4	2046.1	6567.4
*Number of day from the first case to the maximum (days)	48	14	72	36.5	13.6
*Number of days from the first case to the first death (days)	48	3	55	20.4	11.5
Population health-related indicators					
***Life expectancy at birth, total (years) 2016–2018, averages	47	71.6	85.6	78.7	3.9
***Population ages 65 and above (% of total population) 2016–2018 averages	44	6.0	22.5	17.0	3.7
Median age of population (years) 2017–2019, averages	47	29.1	46.3	40.6	3.8
***Obesity, adults aged 18+ (%), 2016	44	19	32	24.8	3.0
***Smoking prevalence, ages 15+ (%) 2014–2016, averages	44	15	46.2	29.3	6.8
***PM2.5 air pollution, population exposed to levels exceeding WHO guideline value (% of total) 2015–2017, averages	45	0	100	78.0	34.9

Description	N	MIN	MAX	MEAN	STD. DEV
***People using at least basic sanitation services (% of population) 2015–2017, averages	47	75.8	100	96.5	4.9
***Current health expenditure (% of GDP) 2015–2017, averages	44	4.2	12.2	8.2	1.9
***Physicians (per 1,000 people) 2014–2016, averages	47	1.2	5.5	3.4	0.9
***Hospital beds (per 1,000 people) 2013–2015, averages	40	2.6	11.0	5.2	2.0
Development and connectivity indicators					
***GDP per capita, PPP (constant 2011 international \$) 2016–2018, averages	46	6212.3	96247.9	32034.5	18225.5
***Employment in agriculture (% of total employment) (modelled ILO estimate) 2017–2019, averages	44	1.0	42.5	9.8	11.0
***Employment in industry (% of total employment) (modelled ILO estimate) 2017–2019, averages	44	11.4	37.6	23.4	6.5
***Employment in services (% of total employment) (modelled ILO estimate) 2017–2019, averages	44	42.9	87.4	66.8	11.6
***Foreign direct investment, net inflows (% of GDP) 2016–2018, averages	46	-11.8	976.2	26.1	143.5
***Imports of goods and services (% of GDP), 2016–2018 averages	45	20.7	178.5	58.2	27.8
***Exports of goods and services (% of GDP), 2016–2018 averages	45	25.4	214.1	58.7	34.8
***International tourism, expenditures (% of total imports) 2016–2018, averages	44	2.3	53.9	12.3	12.6
***International tourism, receipts (% of total exports) 2016–2018, averages	44	2.1	24.7	6.8	5.0
****Final consumption expenditure of households: Hotel and restaurants (% of total) 2016–2018, averages	33	2.8	20.0	8.8	4.4
***Population density (people per sq. km of land area), 2016–2018 averages	48	3.4	1465.5	156.5	223.9
***Urban population (% of total population), 2016–2019, averages	47	14.3	98.0	70.4	16.2
Mortality indicators					
****Death, total 2016–2018, averages	47	258.0	932683	145458	213859

Description	N	MIN	MAX	MEAN	STD. DEV
***Death rate, crude (per 1,000 people) 2016–2018, averages	48	4.4	15.3	10.0	2.7
***Mortality from CVD, cancer, diabetes or CRD between exact ages 30 and 70 (%) 2015–2016, averages	44	8.7	26.2	16.1	5.7
***Mortality rate attributed to household and ambient air pollution, age-standardized (per 100,000 population) 2016	44	7.2	101.8	36.0	26.1
***Mortality rate attributed to unsafe water, unsafe sanitation and lack of hygiene (per 100,000 population) 2016	44	0.1	1.1	0.2	0.2

Note: Sources – * <https://www.ecdc.europa.eu/en/publications-data/download-todays-data-geographic-distribution-covid-19-cases-worldwide>; ** <https://www.statista.com/statistics/1028731/covid19-tests-select-countries-worldwide/>; *** <https://databank.worldbank.org/reports.aspx?source=world-development-indicators>; **** <https://ec.europa.eu/eurostat/data/database>.

Supplementary 2

Kernel Density Estimation (source: authors' computation using IBM SPSS Statistics 21)

