

Initial Report

Replicating “Effects of international sanctions on age-specific mortality: a cross-national panel data analysis”

```
#load packages
if (!require("pacman")) install.packages("pacman")
```

Loading required package: pacman

```
pacman::p_load(haven)
```

Load Data

```
#from stata - use haven package
df1 <- read_dta("data/mortality1_r-1.dta")
df2 <- read_dta("data/un_single_age_life_t.dta")
```

Quick Summary

replicate their summary tables later

```
head(df1)
```

```
# A tibble: 6 x 96
  NAMES_STD countrycode year dependency rural inflation gini
  <chr>      <chr>      <dbl>    <dbl> <dbl>    <dbl> <dbl>
1 Afghanistan AFG        1960      80.1  91.6      NA    NA
```

```

2 Afghanistan AFG          1961      80.2  91.3      NA    NA
3 Afghanistan AFG          1962      80.4  91.0      NA    NA
4 Afghanistan AFG          1963      80.7  90.7      NA    NA
5 Afghanistan AFG          1964      81.2  90.4      NA    NA
6 Afghanistan AFG          1965      82.0  90.1      NA    NA
# i 89 more variables: agricultural_imports <dbl>, food_imports <dbl>,
#   fuel_imports <dbl>, popWB <dbl>, government_effectiveness <dbl>,
#   gdppcPWT <dbl>, un_sanctions <dbl>, un_arms <dbl>, eu_sanctions <dbl>,
#   eu_arms <dbl>, us_sanctions <dbl>, us_arms <dbl>, polity2 <dbl>,
#   eusanct_sanction_us <dbl>, eusanct_sanction_un <dbl>,
#   eusanct_sanction_eu <dbl>, ties_us_sanction <dbl>, ties_eu_sanction <dbl>,
#   giga_un_sanction <dbl>, giga_eu_sanction <dbl>, giga_us_sanction <dbl>, ...

```

```
dim(df1)
```

```
[1] 15182    96
```

```
head(df2)
```

```

# A tibble: 6 x 19
  sortorder locid  year agegrpstart pop_t  dea_t  mx_t  qx_t  px_t  lx_t
    <dbl> <dbl> <dbl>      <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
1      108     4  1950          0  302. 106.  0.353  0.286  0.714 100000
2      108     4  1950          1  259.  23.8  0.0921  0.0880  0.912  71421.
3      108     4  1950          2  241.  13.6  0.0566  0.0551  0.945  65134.
4      108     4  1950          3  229.   8.11  0.0354  0.0348  0.965  61547.
5      108     4  1950          4  218.   4.99  0.0229  0.0227  0.977  59406.
6      108     4  1950          5  208.   3.25  0.0156  0.0155  0.984  58060.
# i 9 more variables: dx_t <dbl>, llx_t <dbl>, sx_t <dbl>, tx_t <dbl>,
#   ex_t <dbl>, ax_t <dbl>, mx2_t <dbl>, rmx <dbl>, countryname <chr>

```

```
dim(df2)
```

```
[1] 1708920    19
```

```
summary(df1)
```

NAMES_STD	countrycode	year	dependency
Length:15182	Length:15182	Min. :1960	Min. : 16.17

Class :character	Class :character	1st Qu.:1975	1st Qu.: 52.04
Mode :character	Mode :character	Median :1991	Median : 68.10
		Mean :1991	Mean : 70.27
		3rd Qu.:2007	3rd Qu.: 88.24
		Max. :2022	Max. :123.31
			NA's :1604
rural	inflation	gini	agricultural_imports
Min. : 0.00	Min. : -17.640	Min. :20.70	Min. : 0.001
1st Qu.:28.03	1st Qu.: 2.112	1st Qu.:31.20	1st Qu.: 0.889
Median :49.39	Median : 4.841	Median :35.70	Median : 1.555
Mean :48.60	Mean : 23.472	Mean :37.79	Mean : 2.196
3rd Qu.:69.42	3rd Qu.: 10.161	3rd Qu.:43.17	3rd Qu.: 2.639
Max. :97.92	Max. :23773.132	Max. :65.80	Max. :47.753
NA's :1700	NA's :6642	NA's :13076	NA's :7558
food_imports	fuel_imports	popWB	government_effectiveness
Min. : 0.474	Min. : 0.010	Min. :4.135e+03	Min. : -2.450
1st Qu.: 9.147	1st Qu.: 6.566	1st Qu.:5.141e+05	1st Qu.: -0.753
Median :13.611	Median :11.627	Median :4.258e+06	Median : -0.157
Mean :14.980	Mean :13.175	Mean :2.500e+07	Mean : -0.013
3rd Qu.:19.227	3rd Qu.:17.805	3rd Qu.:1.375e+07	3rd Qu.: 0.736
Max. :62.416	Max. :94.057	Max. :1.417e+09	Max. : 2.426
NA's :7549	NA's :7558	NA's :1604	NA's :10555
gdppcPWT	un_sanctions	un_arms	eu_sanctions
Min. : 244.6	Min. :0.0000	Min. :0.0000	Min. :0.0000
1st Qu.: 2537.7	1st Qu.:0.0000	1st Qu.:0.0000	1st Qu.:0.0000
Median : 6703.3	Median :0.0000	Median :0.0000	Median :0.0000
Mean : 13701.7	Mean :0.0334	Mean :0.0311	Mean :0.0531
3rd Qu.: 17496.8	3rd Qu.:0.0000	3rd Qu.:0.0000	3rd Qu.:0.0000
Max. :283541.2	Max. :1.0000	Max. :1.0000	Max. :1.0000
NA's :5523	NA's :764	NA's :764	NA's :764
eu_arms	us_sanctions	us_arms	polity2
Min. :0.0000	Min. :0.0000	Min. :0.0000	Min. : -10.000
1st Qu.:0.0000	1st Qu.:0.0000	1st Qu.:0.0000	1st Qu.: -7.000
Median :0.0000	Median :0.0000	Median :0.0000	Median : 2.000
Mean :0.0307	Mean :0.1295	Mean :0.0473	Mean : 1.056
3rd Qu.:0.0000	3rd Qu.:0.0000	3rd Qu.:0.0000	3rd Qu.: 8.000
Max. :1.0000	Max. :1.0000	Max. :1.0000	Max. : 10.000
NA's :764	NA's :764	NA's :764	NA's :6651
eusanct_sanction_us	eusanct_sanction_un	eusanct_sanction_eu	ties_us_sanction
Min. :0.000	Min. :0.000	Min. :0.000	Min. :0.000
1st Qu.:0.000	1st Qu.:0.000	1st Qu.:0.000	1st Qu.:0.000
Median :0.000	Median :0.000	Median :0.000	Median :0.000
Mean :0.146	Mean :0.031	Mean :0.071	Mean :0.121

3rd Qu.:0.000	3rd Qu.:0.000	3rd Qu.:0.000	3rd Qu.:0.000
Max. :1.000	Max. :1.000	Max. :1.000	Max. :1.000
NA's :9008	NA's :9008	NA's :9008	NA's :3410
ties_eu_sanction	giga_un_sanction	giga_eu_sanction	giga_us_sanction
Min. :0.000	Min. :0.000	Min. :0.000	Min. :0.000
1st Qu.:0.000	1st Qu.:0.000	1st Qu.:0.000	1st Qu.:0.000
Median :0.000	Median :0.000	Median :0.000	Median :0.000
Mean :0.015	Mean :0.024	Mean :0.056	Mean :0.082
3rd Qu.:0.000	3rd Qu.:0.000	3rd Qu.:0.000	3rd Qu.:0.000
Max. :1.000	Max. :1.000	Max. :1.000	Max. :1.000
NA's :3410	NA's :10382	NA's :10382	NA's :10382
hse_us_sanction	hse_un_sanction	hse_eu_sanction	openness
Min. :0.000	Min. :0.000	Min. :0.000	Min. : 1.862
1st Qu.:0.000	1st Qu.:0.000	1st Qu.:0.000	1st Qu.: 48.540
Median :0.000	Median :0.000	Median :0.000	Median : 74.367
Mean :0.064	Mean :0.014	Mean :0.003	Mean : 84.818
3rd Qu.:0.000	3rd Qu.:0.000	3rd Qu.:0.000	3rd Qu.:106.346
Max. :1.000	Max. :1.000	Max. :1.000	Max. :593.694
NA's :4428	NA's :4428	NA's :4428	NA's :5062
exist	mr_wb_adu_f	mr_wb_adu_m	mr_wb_inf_f
Min. :0.0000	Min. : 22.07	Min. : 42.59	Min. : 0.90
1st Qu.:1.0000	1st Qu.: 98.67	1st Qu.:177.01	1st Qu.: 12.60
Median :1.0000	Median :153.95	Median :247.00	Median : 31.00
Mean :0.9121	Mean :187.68	Mean :267.32	Mean : 45.45
3rd Qu.:1.0000	3rd Qu.:262.12	3rd Qu.:346.04	3rd Qu.: 66.62
Max. :1.0000	Max. :997.60	Max. :999.94	Max. :259.50
NA's :764	NA's :2502	NA's :2502	NA's :4122
mr_wb_inf_m	mr_wb_inf_t	mr_wb_man_f	mr_wb_neo_t
Min. : 1.10	Min. : 1.00	Min. : 0.0	Min. : 0.70
1st Qu.: 15.50	1st Qu.: 14.10	1st Qu.: 6.0	1st Qu.: 8.00
Median : 38.10	Median : 34.70	Median : 19.0	Median : 18.40
Mean : 53.65	Mean : 49.66	Mean : 65.8	Mean : 22.89
3rd Qu.: 79.30	3rd Qu.: 73.00	3rd Qu.: 50.0	3rd Qu.: 33.10
Max. :295.70	Max. :278.20	Max. :2241.0	Max. :105.30
NA's :4122	NA's :4122	NA's :12366	NA's :5705
mr_wb_un5_f	mr_wb_un5_m	mr_wb_un5_t	mr_uns_1015_t
Min. : 1.60	Min. : 1.90	Min. : 1.70	Min. : 0.1126
1st Qu.: 14.80	1st Qu.: 18.18	1st Qu.: 16.60	1st Qu.: 1.1367
Median : 39.00	Median : 47.10	Median : 43.60	Median : 2.4156
Mean : 68.99	Mean : 77.30	Mean : 74.25	Mean : 4.8994
3rd Qu.:100.90	3rd Qu.:113.60	3rd Qu.:108.60	3rd Qu.: 6.1288
Max. :416.20	Max. :434.20	Max. :429.10	Max. :240.1053
NA's :4122	NA's :4122	NA's :4053	NA's :798

mr_uns_1015_f	mr_uns_1015_m	mr_uns_510_t	mr_uns_510_f
Min. : 0.0900	Min. : 0.1101	Min. : 0.1295	Min. : 0.0372
1st Qu.: 0.8791	1st Qu.: 1.3586	1st Qu.: 1.2886	1st Qu.: 1.0589
Median : 1.9752	Median : 2.8063	Median : 3.0704	Median : 2.5567
Mean : 4.6397	Mean : 5.1514	Mean : 8.0188	Mean : 7.6265
3rd Qu.: 5.8554	3rd Qu.: 6.6610	3rd Qu.: 9.8063	3rd Qu.: 9.1100
Max. :200.6672	Max. :277.7507	Max. :238.3941	Max. :208.9377
NA's :798	NA's :798	NA's :798	NA's :798
mr_uns_510_m	mr_uns_6080_t	mr_uns_6080_f	mr_uns_6080_m
Min. : 0.140	Min. :170.5	Min. :124.6	Min. :210.1
1st Qu.: 1.474	1st Qu.:467.5	1st Qu.:387.7	1st Qu.:549.4
Median : 3.508	Median :568.2	Median :502.5	Median :637.2
Mean : 8.401	Mean :552.6	Mean :493.2	Mean :616.3
3rd Qu.: 10.588	3rd Qu.:650.2	3rd Qu.:606.7	3rd Qu.:700.3
Max. :266.303	Max. :995.1	Max. :989.3	Max. :998.2
NA's :798	NA's :798	NA's :798	NA's :798
ln_mr_crude	gg_final_consumption_perc	imports_share_gdp	mort59
Min. :-1.160	Min. : 0.00	Min. : 0.016	Min. : 0.200
1st Qu.: 1.604	1st Qu.: 11.21	1st Qu.: 24.262	1st Qu.: 1.100
Median : 1.927	Median : 15.30	Median : 35.538	Median : 2.100
Mean : 1.978	Mean : 16.27	Mean : 42.020	Mean : 5.402
3rd Qu.: 2.325	3rd Qu.: 19.45	3rd Qu.: 53.024	3rd Qu.: 6.700
Max. : 4.782	Max. :147.74	Max. :429.359	Max. :150.400
NA's :812	NA's :6822	NA's :6452	NA's :8910
mort1014	exports_gdp	_merge	mr_wb_adu_t
Min. : 0.200	Min. : 0.005	Min. :1.000	Min. : 32.78
1st Qu.: 1.100	1st Qu.: 18.183	1st Qu.:3.000	1st Qu.:141.07
Median : 2.100	Median : 29.289	Median :3.000	Median :203.49
Mean : 3.461	Mean : 36.416	Mean :2.793	Mean :228.79
3rd Qu.: 4.400	3rd Qu.: 46.307	3rd Qu.:3.000	3rd Qu.:301.90
Max. :153.600	Max. :433.836	Max. :3.000	Max. :998.76
NA's :8910	NA's :6461		NA's :2564
global_sanctions	un_another	us_econ_sanctions	eu_econ_sanctions
Min. :0.0000	Min. :0.00000	Min. :0.00000	Min. :0.00000
1st Qu.:0.0000	1st Qu.:0.00000	1st Qu.:0.00000	1st Qu.:0.00000
Median :0.0000	Median :0.00000	Median :0.00000	Median :0.00000
Mean :0.1398	Mean :0.03148	Mean :0.09221	Mean :0.03899
3rd Qu.:0.0000	3rd Qu.:0.00000	3rd Qu.:0.00000	3rd Qu.:0.00000
Max. :1.0000	Max. :1.00000	Max. :1.00000	Max. :1.00000
un_econ_sanctions	arms_sanctions	military_sanctions	non_econ_sanctions
Min. :0.00000	Min. :0.00000	Min. :0.0000	Min. :0.000
1st Qu.:0.00000	1st Qu.:0.00000	1st Qu.:0.0000	1st Qu.:0.000

Median :0.00000	Median :0.00000	Median :0.00000	Median :0.000
Mean :0.01838	Mean :0.07107	Mean :0.0579	Mean :0.107
3rd Qu.:0.00000	3rd Qu.:0.00000	3rd Qu.:0.0000	3rd Qu.:0.000
Max. :1.00000	Max. :1.00000	Max. :1.0000	Max. :1.000

uni_sanctions	us_uni_sanctions	eu_uni_sanctions	uni_another
Min. :0.0000	Min. :0.0000	Min. :0.00000	Min. :0.00000
1st Qu.:0.0000	1st Qu.:0.0000	1st Qu.:0.00000	1st Qu.:0.00000
Median :0.0000	Median :0.0000	Median :0.00000	Median :0.00000
Mean :0.1082	Mean :0.0988	Mean :0.03148	Mean :0.07522
3rd Qu.:0.0000	3rd Qu.:0.0000	3rd Qu.:0.00000	3rd Qu.:0.00000
Max. :1.0000	Max. :1.0000	Max. :1.00000	Max. :1.00000

non_arms_sanctions	arms_mil_sanctions	non_arms_mil_sanctions
Min. :0.0000	Min. :0.00000	Min. :0.0000
1st Qu.:0.0000	1st Qu.:0.00000	1st Qu.:0.0000
Median :0.0000	Median :0.00000	Median :0.0000
Mean :0.1313	Mean :0.08846	Mean :0.1235
3rd Qu.:0.0000	3rd Qu.:0.00000	3rd Qu.:0.0000
Max. :1.0000	Max. :1.00000	Max. :1.0000

uni_arms_sanctions	comprehensiveness	comprehensiveness2	war
Min. :0.00000	Min. : 0.0000	Min. :0.0000	Min. :0.0000
1st Qu.:0.00000	1st Qu.: 0.0000	1st Qu.:0.0000	1st Qu.:0.0000
Median :0.00000	Median : 0.0000	Median :0.0000	Median :0.0000
Mean :0.04156	Mean : 0.5695	Mean :0.2825	Mean :0.1153
3rd Qu.:0.00000	3rd Qu.: 0.0000	3rd Qu.:0.0000	3rd Qu.:0.0000
Max. :1.00000	Max. :17.0000	Max. :6.0000	Max. :1.0000
	NA's :764	NA's :764	

eysf	ccode	econ_sanctions	uni_econ_sanctions
Min. : 0.361	Min. : 1	Min. :0.0000	Min. :0.00000
1st Qu.: 8.570	1st Qu.: 61	1st Qu.:0.0000	1st Qu.:0.00000
Median :11.553	Median :121	Median :0.0000	Median :0.00000
Mean :11.083	Mean :121	Mean :0.1061	Mean :0.09373
3rd Qu.:13.845	3rd Qu.:181	3rd Qu.:0.0000	3rd Qu.:0.00000
Max. :23.484	Max. :241	Max. :1.0000	Max. :1.00000
NA's :6957			

ln_dependency	ln_rural	ln_eysf	lgdppcPWT
Min. :2.783	Min. : -3.912	Min. : -1.019	Min. : 5.500
1st Qu.:3.952	1st Qu.: 3.425	1st Qu.: 2.148	1st Qu.: 7.839
Median :4.221	Median : 3.926	Median : 2.447	Median : 8.810
Mean :4.207	Mean : 3.736	Mean : 2.298	Mean : 8.807
3rd Qu.:4.480	3rd Qu.: 4.251	3rd Qu.: 2.628	3rd Qu.: 9.770

Max. :4.815	Max. : 4.584	Max. : 3.156	Max. :12.555
NA's :1604	NA's :2155	NA's :6957	NA's :5523
idum	ln_mr_wb_neo_t	ln_mr_wb_inf_t	ln_mr_wb_un5_t
Min. :0.0000	Min. :-0.357	Min. :0.000	Min. :0.531
1st Qu.:0.0000	1st Qu.: 2.079	1st Qu.:2.646	1st Qu.:2.809
Median :1.0000	Median : 2.912	Median :3.547	Median :3.775
Mean :0.5602	Mean : 2.730	Mean :3.408	Mean :3.698
3rd Qu.:1.0000	3rd Qu.: 3.500	3rd Qu.:4.290	3rd Qu.:4.688
Max. :1.0000	Max. : 4.657	Max. :5.628	Max. :6.062
	NA's :5705	NA's :4122	NA's :4053
ln_mr_uns_510_t	ln_mr_uns_1015_t	ln_mr_wb_adu_t	ln_mr_uns_6080_t
Min. :-2.0443	Min. :-2.1839	Min. :3.490	Min. :5.138
1st Qu.: 0.2536	1st Qu.: 0.1281	1st Qu.:4.949	1st Qu.:6.147
Median : 1.1218	Median : 0.8820	Median :5.316	Median :6.343
Mean : 1.2424	Mean : 0.9563	Mean :5.296	Mean :6.284
3rd Qu.: 2.2830	3rd Qu.: 1.8130	3rd Qu.:5.710	3rd Qu.:6.477
Max. : 5.4739	Max. : 5.4811	Max. :6.907	Max. :6.903
NA's :798	NA's :798	NA's :2564	NA's :798
ln_polity2			
Min. :-3.045			
1st Qu.: -1.658			
Median :-0.480			
Mean :-0.851			
3rd Qu.: -0.100			
Max. : 0.000			
NA's :6651			

```
summary(df2)
```

sortorder	locid	year	agegrpstart
Min. : 29.0	Min. : 4.0	Min. :1950	Min. : 0
1st Qu.: 93.0	1st Qu.:222.0	1st Qu.:1968	1st Qu.: 25
Median :158.0	Median :442.0	Median :1986	Median : 50
Mean :158.5	Mean :441.6	Mean :1986	Mean : 50
3rd Qu.:224.0	3rd Qu.:660.0	3rd Qu.:2003	3rd Qu.: 75
Max. :290.0	Max. :894.0	Max. :2021	Max. :100

pop_t	dea_t	mx_t	qx_t
Min. : 0.000	Min. : 0.000	Min. :0.0000124	Min. :0.0000124
1st Qu.: 0.618	1st Qu.: 0.009	1st Qu.:0.0026074	1st Qu.:0.0026040
Median : 11.306	Median : 0.128	Median :0.0109663	Median :0.0109063
Mean : 211.015	Mean : 2.139	Mean :0.0736058	Mean :0.0698517

3rd Qu.:	85.534	3rd Qu.:	0.787	3rd Qu.:	0.0728814	3rd Qu.:	0.0702824
Max.	:29753.559	Max.	:3954.196	Max.	:1.0000000	Max.	:1.0000000

px_t	lx_t	dx_t	llx_t
Min. :0.0000	Min. : 0	Min. : 0.0	Min. : 0
1st Qu.:0.9297	1st Qu.: 37128	1st Qu.: 183.1	1st Qu.:35895
Median :0.9891	Median : 75832	Median : 559.5	Median :75339
Mean :0.9301	Mean : 63361	Mean : 990.1	Mean :62860
3rd Qu.:0.9974	3rd Qu.: 92705	3rd Qu.: 1500.1	3rd Qu.:92473
Max. :1.0000	Max. :100000	Max. :40064.3	Max. :99928

sx_t	tx_t	ex_t	ax_t
Min. :0.3333	Min. : 0	Min. : 1.000	Min. :0.05276
1st Qu.:0.9329	1st Qu.: 306447	1st Qu.: 7.996	1st Qu.:0.50000
Median :0.9892	Median :1872510	Median :24.385	Median :0.50000
Mean :0.9380	Mean :2367200	Mean :28.058	Mean :0.51054
3rd Qu.:0.9974	3rd Qu.:4022194	3rd Qu.:45.427	3rd Qu.:0.50000
Max. :1.0000	Max. :8654244	Max. :86.542	Max. :4.31864

mx2_t	rmx	countryname
Min. :0.000	Min. :0.000	Length:1708920
1st Qu.:0.002	1st Qu.:0.994	Class :character
Median :0.010	Median :1.000	Mode :character
Mean :0.067	Mean :0.957	
3rd Qu.:0.063	3rd Qu.:1.003	
Max. :3.000	Max. :3.740	
NA's :21858	NA's :21858	

View column labels

Several columns are labeled with variable descriptions

```
#get labels
df1_labels <- lapply(df1, function(x) attributes(x)$label)
df2_labels <- lapply(df2, function(x) attributes(x)$label)

#print non-null labels
print("DF1 Labels:")
```

```
[1] "DF1 Labels:"
```



```
print(df1_labels[!sapply(df1_labels, is.null)])
```

```
$countrycode
```

```
[1] "CountryCode"
```

```
$dependency
```

```
[1] "Dependency ratio"
```

```
$rural
```

```
[1] "Rural population"
```

```
$inflation
```

```
[1] "Inflation, consumer prices (annual %) [FP.CPI.TOTL.ZG]"
```

```
$gini
```

```
[1] "Gini index [SI.POV.GINI]"
```

```
$agricultural_imports
```

```
[1] "Agricultural raw materials imports (% of merchandise imports) [TM.VAL.AGRI.ZS.UN]"
```

```
$food_imports
```

```
[1] "Food imports (% of merchandise imports) [TM.VAL.FOOD.ZS.UN]"
```

```
$fuel_imports
```

```
[1] "Fuel imports (% of merchandise imports) [TM.VAL.FUEL.ZS.UN]"
```

```
$popWB
```

```
[1] "Population, total"
```

```
$government_effectiveness
```

```
[1] "Government Effectiveness: Estimate [GE.EST]"
```

```
$gdppcPWT
```

```
[1] "Expenditure-side real GDP at chained PPPs (in mil. 2017US$) per habitant"
```

```
$un_sanctions
```

```
[1] "UN sanctions"
```

```
$un_arms
```

```
[1] "1 if the country is subjected to arms sanctions imposed by UN 0 otherwise"
```

```
$eu_sanctions
```

```

[1] "1 if the country is subjected to sanctions imposed by EU 0 otherwise"

$eu_arms
[1] "1 if the country is subjected to arms sanctions imposed by EU 0 otherwise"

$us_sanctions
[1] "US sanctions"

$sus_arms
[1] "1 if the country is subjected to arms sanctions imposed by US 0 otherwise"

$polity2
[1] "Democracy"

$eusanct_sanction_us
[1] "Dummy variable. 1 if the country is subjected to any form of sanctions imposed b"

$eusanct_sanction_un
[1] "Dummy variable. 1 if the country is subjected to any form of sanctions imposed b"

$eusanct_sanction_eu
[1] "Dummy variable. 1 if the country is subjected to any form of sanctions imposed b"

$ties_us_sanction
[1] "Dummy variable. 1 if the country is subjected to any form of sanctions imposed b"

$ties_eu_sanction
[1] "Dummy variable. 1 if the European Union threatened to sanction a country in a gi"

$giga_un_sanction
[1] "Dummy variable. 1 if the country is subjected to any form of sanctions imposed b"

$giga_eu_sanction
[1] "Dummy variable. 1 if the country is subjected to any form of sanctions imposed b"

$giga_us_sanction
[1] "Dummy variable. 1 if the country is subjected to any form of sanctions imposed b"

$hse_us_sanction
[1] "Dummy variable. 1 if the country is subjected to any form of sanctions imposed b"

$hse_un_sanction
[1] "Dummy variable. 1 if the country is subjected to any form of sanctions imposed b"

```

\$hse_eu_sanction
[1] "Dummy variable. 1 if the country is subjected to any form of sanctions imposed b"

\$openness
[1] "Openness"

\$exist
[1] "Dummy variable. 1 if a country existed in a given year. 0 otherwise."

\$mr_wb_adu_f
[1] "Mortality Rate adult, females"

\$mr_wb_adu_m
[1] "Mortality Rate adult, males"

\$mr_wb_inf_f
[1] "Mortality Rate infants, females"

\$mr_wb_inf_m
[1] "Mortality Rate infants, males"

\$mr_wb_inf_t
[1] "Infant mortality"

\$mr_wb_man_f
[1] "Maternal mortality"

\$mr_wb_neo_t
[1] "Neonatal mortality"

\$mr_wb_un5_f
[1] "Mortality Rate under5, females"

\$mr_wb_un5_m
[1] "Mortality Rate under5, males"

\$mr_wb_un5_t
[1] "Under-5 mortality"

\$mr_uns_1015_t
[1] "Mortality Rate 5-15 year. Total"

\$mr_uns_1015_f
[1] "Mortality Rate 5-15 year. Female"

\$mr_uns_1015_m
[1] "Mortality Rate 5-15 year. Male"

\$mr_uns_510_t
[1] "Mortality Rate 5-15 year. Total"

\$mr_uns_510_f
[1] "Mortality Rate 5-15 year. Female"

\$mr_uns_510_m
[1] "Mortality Rate 5-15 year. Male"

\$mr_uns_6080_t
[1] "Mortality Rate 60-80 year. Total"

\$mr_uns_6080_f
[1] "Mortality Rate 60-80 year. Female"

\$mr_uns_6080_m
[1] "Mortality Rate 60-80 year. Male"

\$gg_final_consumption_perc
[1] "General government final consumption expenditure (% of GDP) [NE.CON.GOVT.ZS]"

\$imports_share_gdp
[1] "Imports of goods and services (% of GDP) [NE.IMP.GNFS.ZS]"

\$mort59
[1] "Child mortality"

\$mort1014
[1] "Adolescent mortality"

\$exports_gdp
[1] "Exports of goods and services (% of GDP)"

\$`_merge`
[1] "Matching result from merge"

\$mr_wb_adu_t

```

[1] "Adult mortality"

$global_sanctions
[1] "Any sanctions"

$un_another
[1] "Other UN sanctions"

$un_econ_sanctions
[1] "UN economic sanctions"

$non_econ_sanctions
[1] "Non-economic sanctions"

$uni_sanctions
[1] "Unilateral sanctions"

$sus_uni_sanctions
[1] "US unilateral sanct"

$eu_uni_sanctions
[1] "EU unilateral sanct"

$uni_another
[1] "Other unilateral sanct"

$war
[1] "War"

$eysf
[1] "Female schooling"

$ccode
[1] "group(NAMES_STD)"

$econ_sanctions
[1] "Economic sanctions"

$uni_econ_sanctions
[1] "Unilateral econ sanct"

$lgdppcPWT
[1] "Log per capita income"

```

```
print("DF2 Labels:")
```

```
[1] "DF2 Labels:"
```

```
print(df2_labels[!sapply(df2_labels, is.null)])
```

```
$sortorder
```

```
[1] "SortOrder"
```

```
$locid
```

```
[1] "LocID"
```

```
$year
```

```
[1] "Time"
```

```
$agegrpstart
```

```
[1] "AgeGrpStart"
```

```
$pop_t
```

```
[1] "PopTotal"
```

```
$dea_t
```

```
[1] "DeathTotal"
```

```
$llx_t
```

```
[1] "Lx"
```

```
$sx_t
```

```
[1] "Sx"
```

```
$tx_t
```

```
[1] "Tx"
```