

Online Supplement

Worldwide trends in suicide mortality from 1990 to 2015 with a focus on the global recession time frame

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eTable 1. Age-standardized (world population) mortality rates (ASMRs) from suicide (per 100,000) in men, average annual deaths of the latest period and percentage changes, in selected countries worldwide by three-year period (2004-2015)

	ASMRs				Average annual deaths	Percentage changes		
	(Pre-crisis)	(Around crisis)	(Post-crisis)	(Latest period)	(Latest period)	2013-15 vs 2004-06	2007-09 vs 2004-06	2010-12 vs 2007-09
	2004-06	2007-09	2010-12	2013-15	2013-15			
Europe								
Austria	18.94	16.75	16.35	15.24	966	-19.5	-11.6	-2.4
Belarus	-	38.75	34.58	26.89	1518	.	.	-10.8
Belgium	20.53	19.39	19.54	17.06	1259	-16.9	-5.6	0.8
Bulgaria	13.48	12.09	11.85	10.33	555	-23.4	-10.3	-2
Croatia	20.55	19.42	18.3	17.99	539	-12.5	-5.5	-5.8
Czech Republic	18.5	16.85	18.81	17.19	1202	-7.1	-8.9	11.6
Denmark	12.74	11.66	11.74	11.2	436	-12.1	-8.5	0.7
Estonia	28.54	25.76	22.27	21.99	174	-23	-9.7	-13.6
Finland	24.5	23.79	21.36	18.22	608	-25.6	-2.9	-10.2
France	18.6	17.77	17.29	15.43	6671	-17	-4.5	-2.7
Germany	12.95	11.75	12.03	11.84	7342	-8.6	-9.3	2.4
Greece	4.01	3.95	4.88	5.79	432	44.4	-1.5	23.5
Hungary	30.75	28.88	28.08	21.75	1485	-29.3	-6.1	-2.8
Ireland	16.18	15.77	16.94	15.31	395	-5.4	-2.5	7.4
Italy	6.86	6.84	7.3	6.9	3053	0.6	-0.3	6.7
Kazakhstan	44.06	39.82	32.66	29.03	2581	-34.1	-9.6	-18
Latvia	33.61	31.03	30.01	25.82	313	-23.2	-7.7	-3.3
Lithuania	54.03	49.24	44.7	45.28	794	-16.2	-8.9	-9.2
TFYR Macedonia	9.26	9.01	7.37	10.12	136	9.3	-2.7	-18.2
Netherlands	10.09	9.5	10.77	11.52	1277	14.2	-5.9	13.4
Norway	13.57	12.38	12.84	11.9	380	-12.3	-8.8	3.7
Poland	22.14	21.3	22.95	21.23	5056	-4.1	-3.8	7.8
Portugal	-	8.14	8.6	9.99	813	-	-	5.7
Republic of Moldova	26.26	25.01	23.28	22.63	482	-13.8	-4.8	-6.9
Romania	16.62	15.29	16.51	14.85	1934	-10.7	-8	8
Russian Federation	46.9	39.29	31.34	28.68	23,794	-38.9	-16.2	-20.2
Slovakia	17.6	15.49	15.14	14.19	502	-19.4	-12	-2.3
Slovenia	29.15	23.72	23.55	22.46	339	-23	-18.6	-0.7
Spain	8.09	7.71	7.22	8.06	2760	-0.4	-4.7	-6.4
Sweden	13.98	14.21	13.33	13.15	831	-5.9	1.7	-6.2
Switzerland	16.83	16.09	13.27	13.02	764	-22.6	-4.4	-17.5
Ukraine	32.4	29.71	27.52	24.46	6282	-24.5	-8.3	-7.4
UK	8.54	8.63	8.81	9.43	3654	10.4	1.1	2.1
UK, England and Wales	7.73	7.75	8.05	8.8	3060	13.8	0.3	3.9
UK, Northern Ireland	15.97	18.73	17.98	16.92	169	6	17.3	-4
UK, Scotland	14.52	14.45	13.82	13.65	425	-6	-0.5	-4.4
America								
Argentina	11.69	10.94	10.93	10.72	2443	-8.3	-6.4	-0.1
Brazil	6.82	7.08	7.1	7.47	8358	9.5	3.8	0.3
Chile	16.58	17.71	16.32	14.14	1443	-14.7	6.8	-7.9
Colombia	7.87	7.7	6.98	6.95	1755	-11.7	-2.2	-9.4
Costa Rica	12.07	9.61	10.4	9.33	248	-22.7	-20.4	8.2
Cuba	15.13	14.13	15.33	14.31	1186	-5.4	-6.6	8.5
Guatemala	3.42	5.43	4.08	4.73	336	38.3	58.8	-24.9
Mexico	6.42	6.58	6.88	7.39	4855	15.1	2.5	4.6
Panama	9.43	8.43	6.46	5.4	111	-42.7	-10.6	-23.4
Puerto Rico	11.99	12.31	10.34	8.92	196	-25.6	2.7	-16
Trinidad and Tobago	16.88	16.86	15.74	-	120	-	-0.1	-6.6
Uruguay	20.9	22.22	23.2	23.41	460	12	6.3	4.4
Venezuela	6.33	4.92	4.27	3.26	500	-48.5	-22.3	-13.2
Canada	14.08	13.77	13.63	13.58	3033	-3.6	-2.2	-1
USA	14.78	15.5	16.48	17.04	32,993	15.3	4.9	6.3
Australasia								

Mauritius	11.85	12.31	12.2	12.25	86	3.4	3.9	-0.9
Hong Kong SAR	16.43	12.84	11.8	12.58	603	-23.4	-21.9	-8.1
Israel	7.28	6.55	7.53	5.54	238	-23.9	-10	15
Japan	25.44	25.52	23.49	20.4	17,002	-19.8	0.3	-8
Kuwait	1.71	1.66	1.31	1.61	40	-5.9	-2.9	-21.1
Philippines	3.43	3.27	3.85	-	1732	-	-4.7	17.7
Republic of Korea	27.74	28.64	31.41	27.74	9785	0	3.2	9.7
Turkmenistan	15.3	7.64	4.01	3.01	86	-80.3	-50.1	-47.5
Australia	13.81	13.81	13.91	15.28	2127	10.6	0	0.7
New Zealand	17.42	16.48	16.39	14.91	366	-14.4	-5.4	-0.6

Note: Data for one or more calendar years were not available for Belarus in 2012 and 2015, Bulgaria in 2015, France in 2015, Ireland in 2015, TFYR Macedonia in 2014-2015, Portugal in 2005, the Russian Federation in 2014-2015, Slovakia in 2006-2007, 2011, and 2015, Ukraine in 2013, Costa Rica in 2015, Trinidad and Tobago in 2012-2015, Uruguay in 2011, Venezuela in 2014-2015, Canada in 2014-2015, Mauritius in 2009, Philippines in 2004-05 and 2012-2015, Australia in 2005 and New Zealand in 2014-2015. In these cases, the ASMR for the three-year period was computed by using the available years.

eTable 2. Age-standardized (world population) mortality rates (ASMRs) from suicide (per 100,000) in women, average annual deaths of the latest period and percentage changes, in selected countries worldwide by three-year period (2004-2015)

	ASMRs				Average	Percentage changes		
	(Pre- crisis)	(Around crisis)	(Post- crisis)	(Latest period)	annual deaths (Latest period)	2013-15 vs 2004-06	2007-09 vs 2004-06	2010-12 vs 2007-09
	2004-06	2007-09	2010-12	2013-15	2013-15			
Europe								
Austria	5.06	4.57	4.4	4.48	307	-11.5	-9.7	-3.7
Belarus	.	6.65	5.58	4.25	305	.	.	-16.1
Belgium	6.99	6.94	7.05	6.52	517	-6.7	-0.7	1.6
Bulgaria	3.8	3.42	2.86	2.34	156	-38.4	-10	-16.4
Croatia	6	4.67	4.89	4.92	176	-18	-22.2	4.7
Czech Republic	3.55	3.06	3.39	3.66	276	3.1	-13.8	10.8
Denmark	4.72	4.16	3.96	3.96	165	-16.1	-11.9	-4.8
Estonia	4.94	4.31	3.57	3.8	44	-23.1	-12.8	-17.2
Finland	7.93	7.6	6.61	5.81	195	-26.7	-4.2	-13
France	6.24	5.64	5.28	4.61	2175	-26.1	-9.6	-6.4
Germany	3.82	3.45	3.65	3.81	2546	-0.3	-9.7	5.8
Greece	0.97	0.78	0.98	1.42	110	46.4	-19.6	25.6
Hungary	7.44	6.71	6.56	5.58	477	-25	-9.8	-2.2
Ireland	3.48	4.43	3.84	3.46	92	-0.6	27.3	-13.3
Italy	1.97	1.87	1.82	1.89	872	-4.1	-5.1	-2.7
Kazakhstan	7.56	8.15	6.46	6.22	589	-17.7	7.8	-20.7
Latvia	5.15	5.32	3.88	4.23	71	-17.9	3.3	-27.1
Lithuania	9.13	7.43	7.59	7.75	176	-15.1	-18.6	2.2
TFYR Macedonia	3.54	3.15	2.81	2.22	34	-37.3	-11	-10.8
Netherlands	4.47	3.96	4.67	5.07	575	13.4	-11.4	17.9
Norway	5.77	5.38	5.31	5.42	168	-6.1	-6.8	-1.3
Poland	3.43	3.25	2.95	3.01	789	-12.2	-5.3	-9.2
Portugal	-	2.12	2.02	2.69	249	.	.	-4.7
Republic of Moldova	4.16	3.85	3.97	3.75	87	-9.9	-7.5	3.1
Romania	2.92	2.8	2.68	2.27	342	-22.3	-4.1	-4.3
Russian Federation	7.23	6.73	5.47	4.82	4985	-33.3	-6.9	-18.7
Slovakia	2.81	1.84	2.19	2.19	82	-22.1	-34.5	19
Slovenia	7.99	5.74	4.96	4.57	80	-42.8	-28.2	-13.6
Spain	2.32	2.17	1.99	2.66	915	14.7	-6.5	-8.3
Sweden	6.26	5.74	5.28	5.83	354	-6.9	-8.3	-8
Switzerland	7.09	6.5	4.77	4.67	275	-34.1	-8.3	-26.6
Ukraine	4.72	4.59	4.67	4.61	1491	-2.3	-2.8	1.7
UK	2.49	2.31	2.35	2.61	1055	4.8	-7.2	1.7
UK, England and Wales	2.23	2.03	2.07	2.39	871	7.2	-9	2
UK, Northern Ireland	4.08	5.04	4.74	4.35	44	6.6	23.5	-6
UK, Scotland	4.54	4.21	4.47	4.28	140	-5.7	-7.3	6.2
America								
Argentina	2.77	2.65	2.57	2.66	608	-4	-4.3	-3
Brazil	1.67	1.71	1.84	1.89	2222	13.2	2.4	7.6
Chile	3.08	4.25	3.68	3.29	334	6.8	38	-13.4
Colombia	2.01	1.82	1.54	1.63	418	-18.9	-9.5	-15.4
Costa Rica	2.06	1.65	1.83	1.6	42	-22.3	-19.9	10.9
Cuba	4.72	4.03	3.98	3.62	301	-23.3	-14.6	-1.2
Guatemala	0.95	1.42	1.17	1.52	135	60	49.5	-17.6
Mexico	1.22	1.41	1.55	1.73	1160	41.8	15.6	9.9
Panama	1.34	1.52	1.02	0.84	17	-37.3	13.4	-32.9
Puerto Rico	1.22	1.71	1.88	1.34	31	9.8	40.2	9.9
Trinidad and Tobago	3.47	3.41	3.95	.	29	.	-1.7	15.8
Uruguay	5.66	5.47	5.73	5.71	122	0.9	-3.4	4.8
Venezuela	1.36	1.09	0.87	0.74	116	-45.6	-19.9	-20.2
Canada	4.38	4.45	4.59	4.77	1013	8.9	1.6	3.2
USA	3.82	4.09	4.48	5.03	9632	31.7	7.1	9.5
Australasia								
Mauritius	3.69	3.11	3.43	3.43	22	-7.1	-15.7	10.3
Hong Kong SAR	8.67	6.85	5.96	6.38	368	-26.4	-21	-13

Israel	2.1	1.47	1.64	1.43	66	-31.9	-30	11.6
Japan	8.9	9.37	9.17	7.94	7409	-10.8	5.3	-2.1
Kuwait	1.06	1.17	0.93	0.82	17	-22.6	10.4	-20.5
Philippines	0.94	0.99	1.09	.	524	.	5.3	10.1
Republic of Korea	11.6	14.93	14.28	11.4	4140	-1.7	28.7	-4.4
Turkmenistan	3.86	2.2	1.4	1.19	36	-69.2	-43	-36.4
Australia	3.86	4.1	4.5	5.06	693	31.1	6.2	9.8
New Zealand	5.47	5.19	5.71	6.07	147	11	-5.1	10

Note: Data for one or more calendar years were not available for Belarus in 2012 and 2015, Bulgaria in 2015, France in 2015, Ireland in 2015, TFYR Macedonia in 2014-2015, Portugal in 2005, the Russian Federation in 2014-2015, Slovakia in 2006-2007, 2011, and 2015, Ukraine in 2013, Costa Rica in 2015, Trinidad and Tobago in 2012-2015, Uruguay in 2011, Venezuela in 2014-2015, Canada in 2014-2015, Mauritius in 2009, Philippines in 2004-05 and 2012-2015, Australia in 2005 and New Zealand in 2014-2015. In these cases, the ASMR for the three-year period was computed by using the available years.

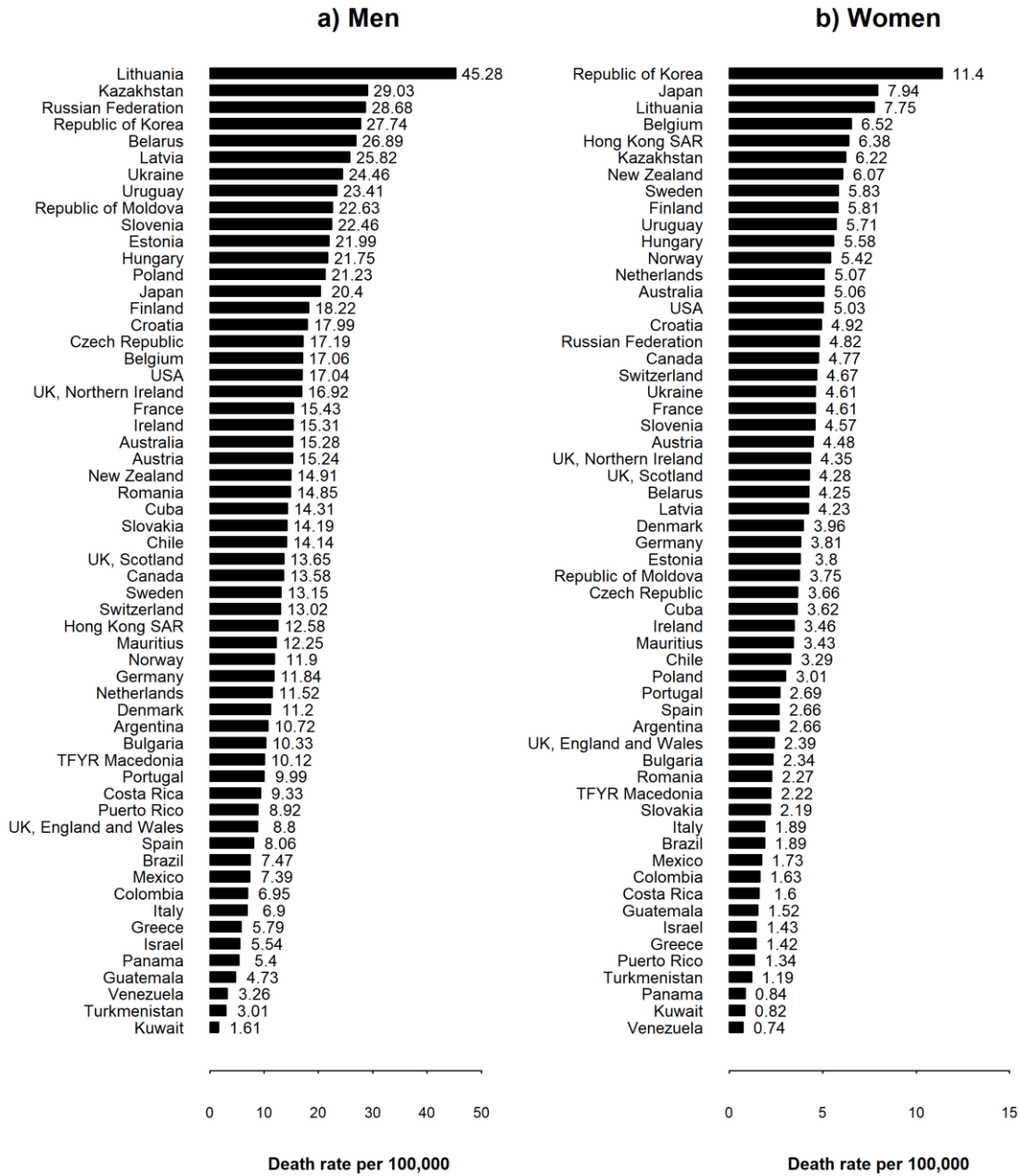
eTable 3. Percentage of deaths coded to ill-defined conditions and external causes of undetermined intent in selected countries worldwide (maximum value over the period 2004-2015)

	Ill-defined causes ^a (%)	Undetermined intent ^b (%)
Europe		
Austria	10.01	0.39
Belarus	15.13	0
Belgium	15.08	0.39
Bulgaria	27.26	0.18
Croatia	12.55	0.03
Czech Republic	14.64	0.49
Denmark	13.48	0.35
Estonia	6.99	1.02
Finland	2.86	0.23
France	16.52	0.12
Germany	12.59	0.31
Greece	24.3	0.06
Hungary	5.63	0.21
Ireland	4.89	0.67
Italy	9.16	0.02
Kazakhstan	22.24	1.67
Latvia	11.3	0.75
Lithuania	5.55	1.09
TFYR Macedonia	15.53	0.05
Netherlands	14.13	0.08
Norway	13.37	0.02
Poland	31.34	0.76
Portugal	18.82	1.11
Republic of Moldova	2.18	0.89
Romania	8.25	0.12
Russian Federation	6.67	0
Slovakia	9.83	5.74
Slovenia	11.75	0.74
Spain	11.09	0.03
Sweden	12.43	0.43
Switzerland	12.49	0.14
Ukraine	7.05	0
UK	7.14	0.42
UK, England and Wales	7.46	0.43
UK, Northern Ireland	5.31	0.73
UK, Scotland	4.77	0.67
America		
Argentina	22.43	0.98
Brazil	17.53	1.28
Chile	6.37	0
Colombia	6.61	1.19
Costa Rica	6.68	0.6
Cuba	7.1	0.33
Guatemala	27.06	7.18
Mexico	5.11	0.88
Panama	12.05	0.98
Puerto Rico	8.25	0.12
Trinidad and Tobago	5.38	1.23
Uruguay	18.45	0.06
Venezuela	9.11	6.4
Canada	6.55	0.31
USA	7.22	0.22
Australasia		
Mauritius	9.69	0.17
Hong Kong SAR	7.33	0.36
Israel	10.76	0.47
Japan	15.69	0.23
Kuwait	16.42	1.53
Philippines	10.45	1.02
Republic of Korea	15.8	1.24
Turkmenistan	15.24	0
Australia	6.07	0.34
New Zealand	3.38	0.12

^a Percentage of deaths coded to symptoms, signs and ill-defined conditions (ICD-10 codes: R00-R99), injury deaths with undetermined intent (ICD-10 codes: Y10-Y34 and Y872), secondary neoplasms and neoplasms of unspecified sites (ICD-10 codes: C76, C80, C97) and ill-defined cardiovascular causes (ICD-10 codes: I47.2, I49.0, I46, I50, I51.4, I51.5, I51.6, I51.9, I70.9).

^b Percentage of deaths coded to injury deaths with undetermined intent (ICD-10 codes: Y10-Y34 and Y872).

Figure 1. Age-standardized mortality rates from suicide per 100,000 men (a) and women (b) for the three-year period 2013-2015 by country.



eFigure 2. Sex ratio of suicide mortality rates for the three-year period 2013-2015 by country.

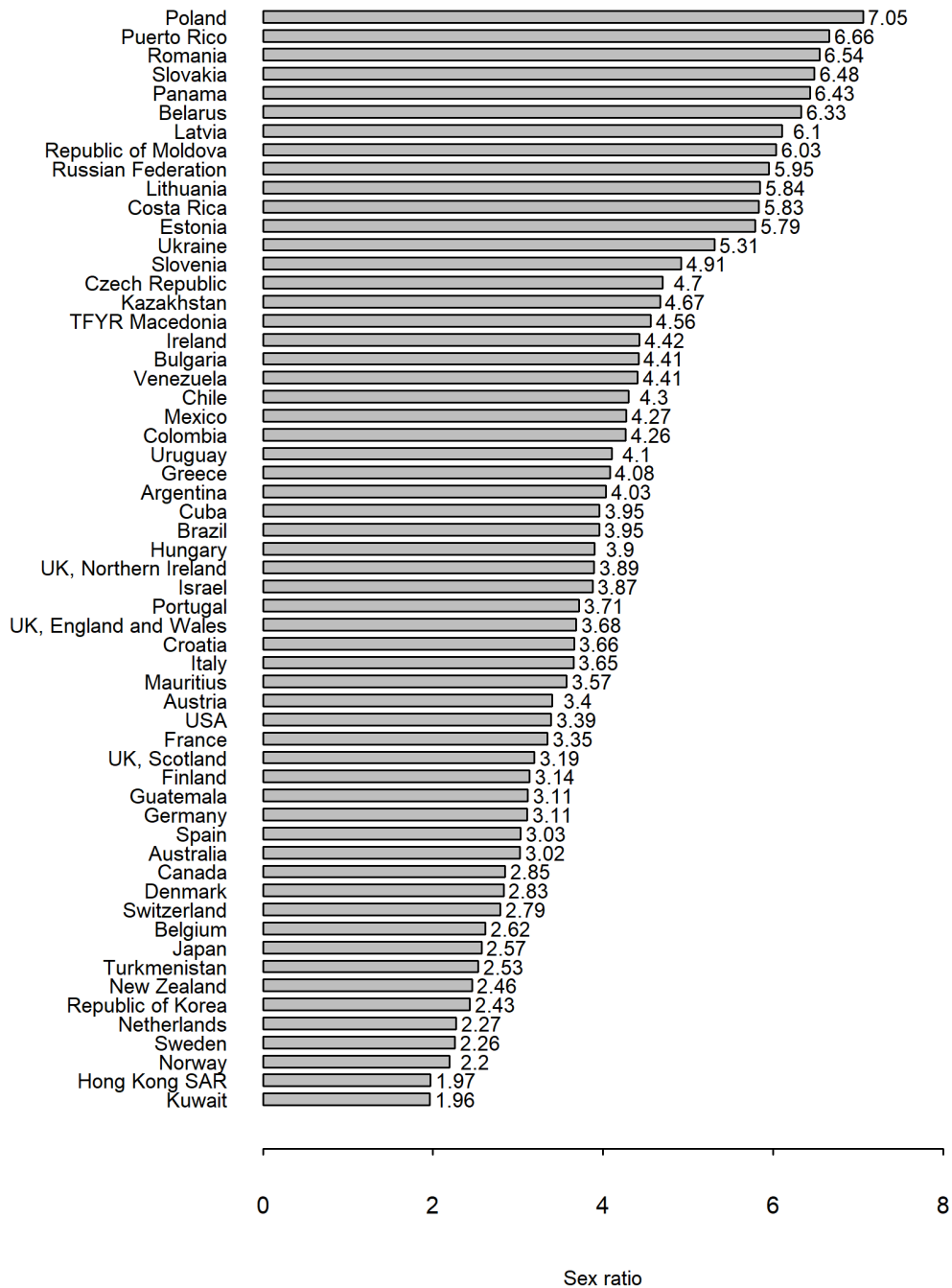


Figure 3. Age-standardized mortality rates (ASMRs) from suicide per 100,000 men from 1990 to 2015 in selected European countries by age categories (years)

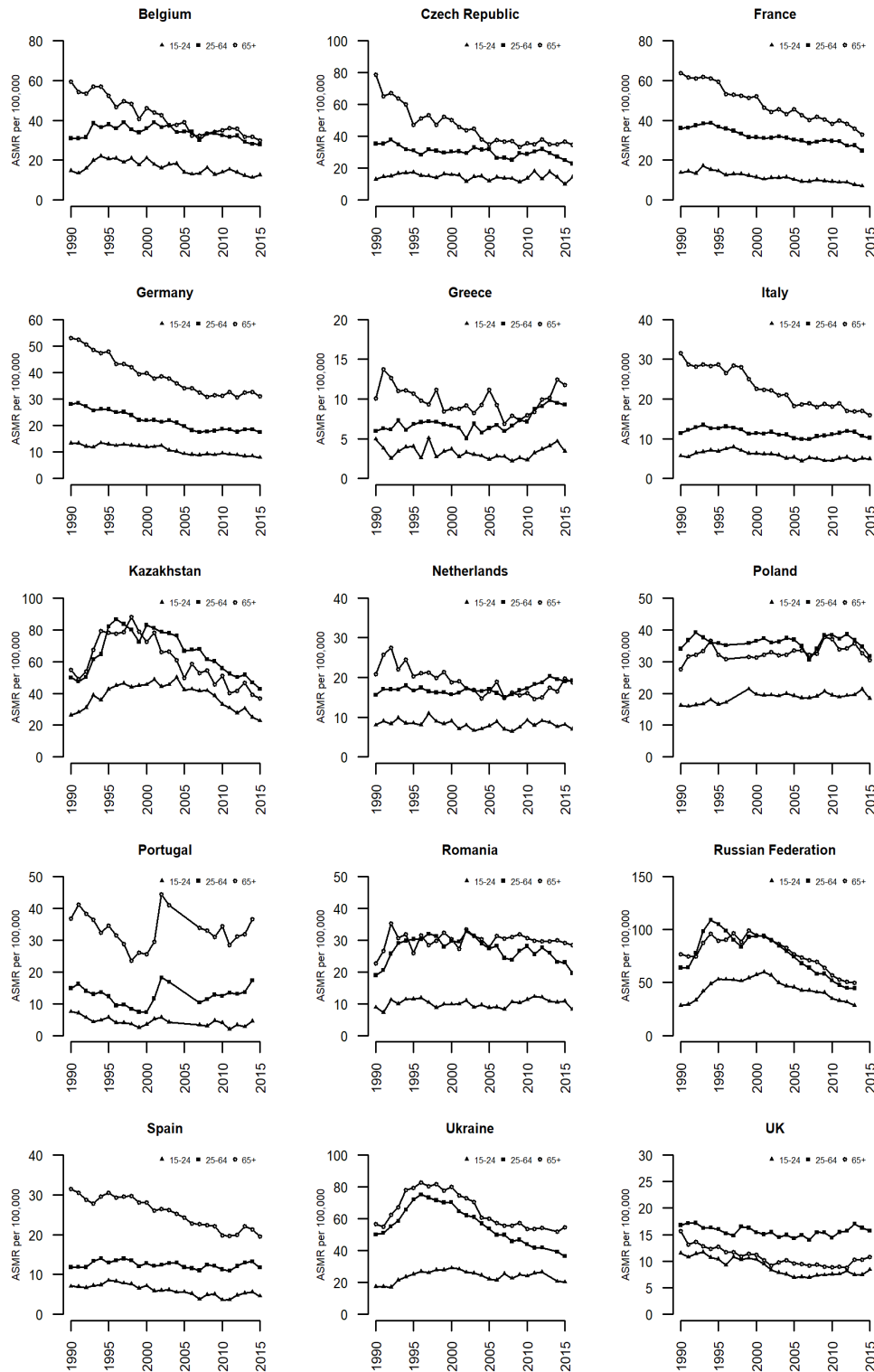


Figure 4. Age-standardized mortality rates (ASMRs) from suicide per 100,000 men from 1990 to 2015 in selected non-European countries by age categories (years)

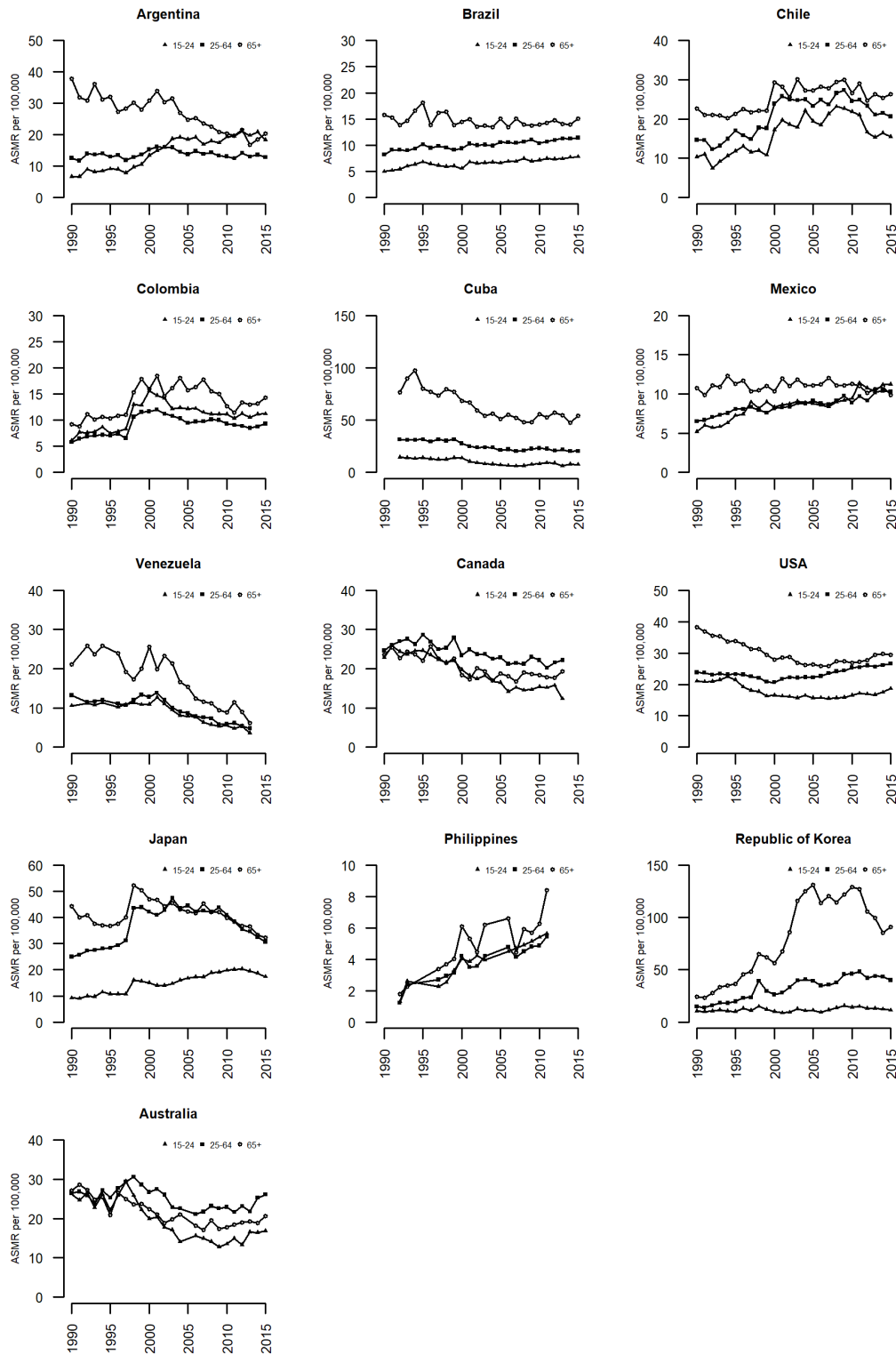


Figure 5. Age-standardized mortality rates (ASMRs) from suicide per 100,000 women from 1990 to 2015 in selected European countries by age categories (years)

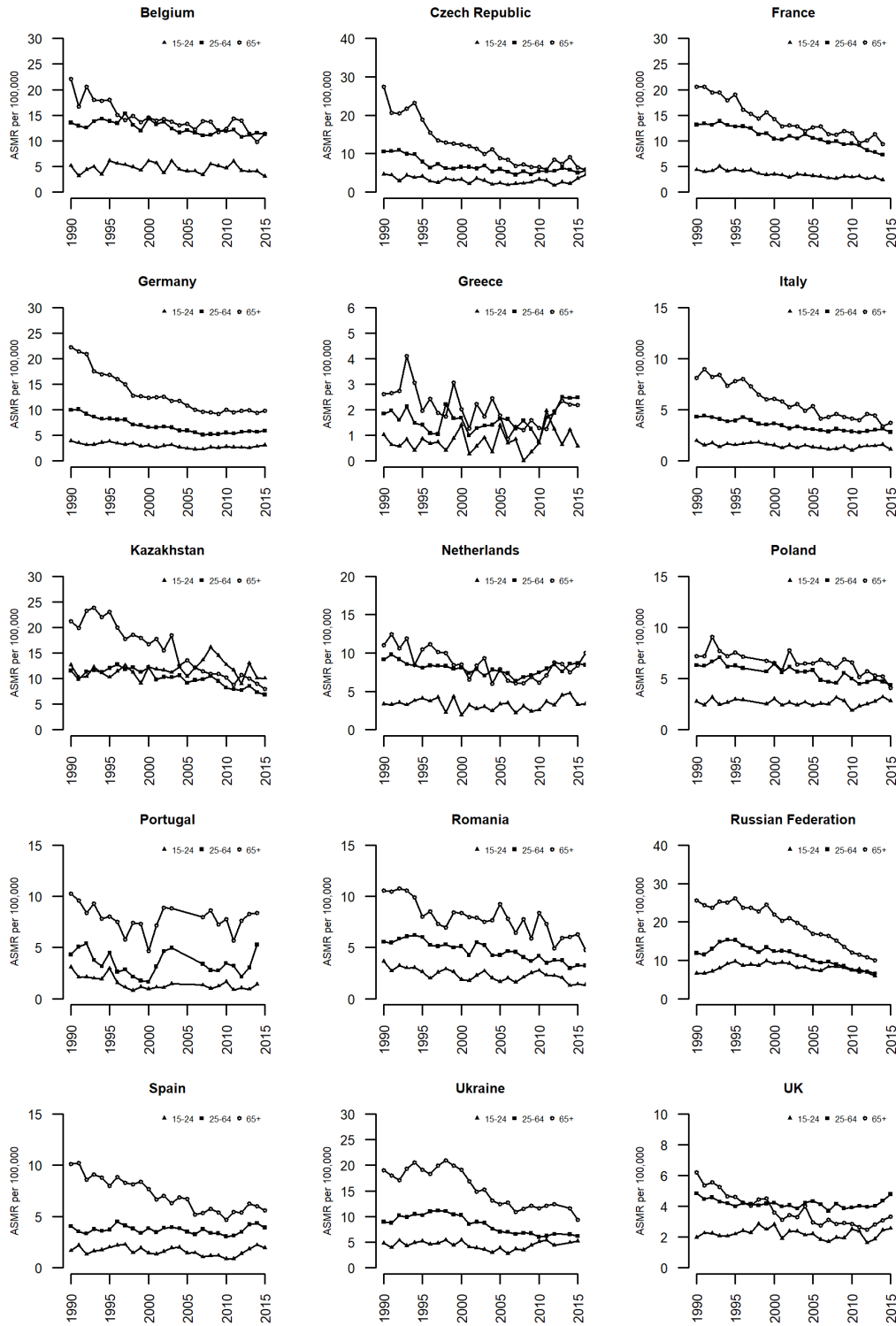


Figure 6. Age-standardized mortality rates (ASMRs) from suicide per 100,000 women from 1990 to 2015 in selected non-European countries by age categories (years)

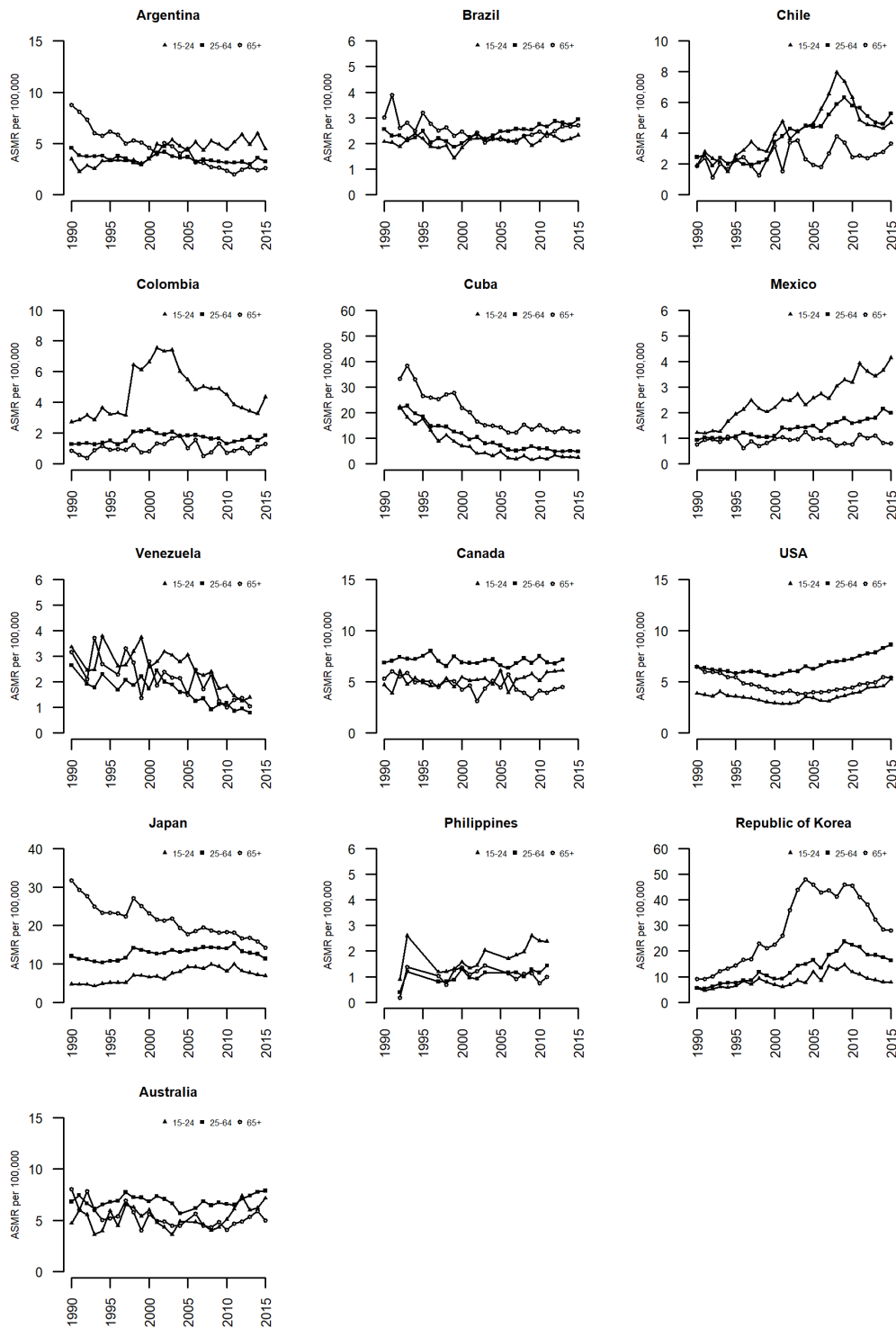


Figure 7. Unemployment rates (estimates from the International Labour Organization, ILO) from 1991 to 2015 in selected European countries by sex
 ILOSTAT database: <https://www.ilo.org/global/statistics-and-databases/lang--en/index.htm> (accessed 15 Apr 2018)

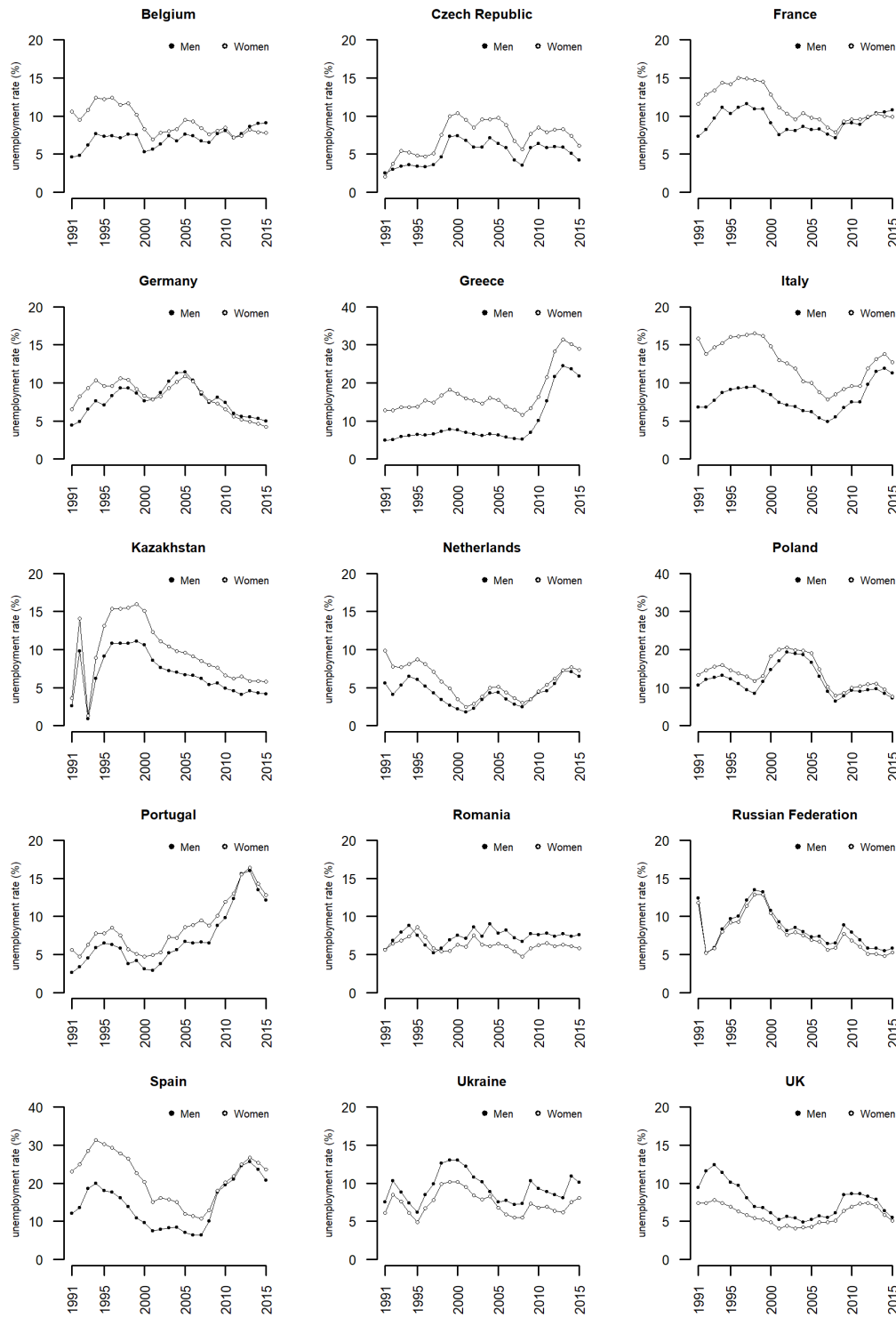


Figure 8. Unemployment rates (estimates from the International Labour Organization, ILO) from 1991 to 2015 in selected non-European countries by sex
 ILOSTAT database: <https://www.ilo.org/global/statistics-and-databases/lang--en/index.htm> (accessed 15 Apr 2018)

