

Supplementary material

Supplementary Table S1. Age-adjusted CKD prevalence and KRT incidence, by region (61 countries).

Supplementary Table S2. Age-adjusted CKD prevalence and KRT incidence, by gender and by region (41 countries).

Supplementary Table S3. Age-adjusted CKD prevalence, all-cause and kidney disease-related mortality rates (59 countries).

Supplemental Table S4. Age-adjusted CKD prevalence and adjusted all-cause mortality, by gender and region (59 countries).

Supplementary Table S5. Linear regression estimates for the association between age-adjusted CKD prevalence and A) KRT incidence, or B) age-adjusted mortality rates, by gender and by region.

Supplementary Figure 1. Incidence of KRT according to crude CKD prevalence, by region.

Supplementary Figure 2: Age-standardized CKD-related mortality according to age-standardized CKD prevalence, by region.

Supplementary Table S1. Age-adjusted CKD prevalence and KRT incidence, by region (61 countries).

Group	Region	Country or sub-region	Age-adjusted CKD prevalence (%)	KRT incidence (pmp)
High Income				
	Australasia	Australia	7.8	117
	Australasia	New Zealand	7.7	119
	High-income Asia-Pacific	Japan	9.5	296
	High-income Asia-Pacific	Rep. of Korea	7.7	311
	High-income Asia-Pacific	Singapore	10.4	333
	High-income North America	Canada	6.6	200
	High-income North America	United States	9	378
	Southern Latin America	Argentina	8.2	165
	Southern Latin America	Chile	7.7	169
	Southern Latin America	Uruguay	7.7	166
	Western Europe	Austria	6.1	133
	Western Europe	Belgium, Dutch sp.	6.2	187
	Western Europe	Belgium, French sp.	6.2	188
	Western Europe	Denmark	6.3	128
	Western Europe	Finland	6.3	102
	Western Europe	France	5.8	165
	Western Europe	Greece	5.8	251
	Western Europe	Iceland	5.6	89
	Western Europe	Israel	6.7	191
	Western Europe	Italy	5.6	145
	Western Europe	Netherlands	6.7	117
	Western Europe	Norway	6.3	106
	Western Europe	Portugal	6.3	236
	Western Europe	Scotland	5.9	106
	Western Europe	Spain	5.5	142
	Western Europe	Sweden	7.4	121
	Western Europe	Switzerland	6.3	101
	Western Europe	United Kingdom	5.6	120
Central and Eastern Europe				
	Central and Eastern Europe	Albania	7.6	81
	Central and Eastern Europe	Belarus	11.9	51
	Central and Eastern Europe	Bosnia and Herzegovina	8.7	113
	Central and Eastern Europe	Bulgaria	8.4	161
	Central and Eastern Europe	Estonia	13.1	85
	Central and Eastern Europe	Hungary	8.7	222
	Central and Eastern Europe	Latvia	12.7	88
	Central and Eastern Europe	Lithuania	12.1	107
	Central and Eastern Europe	Macedonia	8.7	164
	Central and Eastern Europe	Poland	7.8	149
	Central and Eastern Europe	Romania	7.6	175
	Central and Eastern Europe	Russia	13.7	58
	Central and Eastern Europe	Serbia	8.9	92
	Central and Eastern Europe	Slovakia	8.2	128

Central and Eastern Europe	Ukraine	12.3	32
Other			
Latin America	Brazil	7.6	194
Latin America	Colombia	10	80
Latin America	Guatemala	11.3	197
Latin America	Jalisco (Mexico)	13.1	355
Latin America	Peru	7.4	71
North Africa and Middle East	Iran	11.3	81
North Africa and Middle East	Jordan	10.9	60
North Africa and Middle East	Kuwait	10.4	141
North Africa and Middle East	Qatar	10.5	123
North Africa and Middle East	Saudi Arabia	10.4	145
North Africa and Middle East	Turkey	10.9	140
South, East and Southeast Asia	Bangladesh	8.4	51
South, East and Southeast Asia	Indonesia	11.4	135
South, East and Southeast Asia	Malaysia	11.8	259
South, East and Southeast Asia	Philippines	11.4	172
South, East and Southeast Asia	Taiwan	8.8	493
South, East and Southeast Asia	Thailand	10.7	346
Southern Sub-Saharan Africa	South Africa	12.2	22

Supplementary Table S2. Age-adjusted CKD prevalence and KRT incidence, by gender and by region (41 countries).

Group	Region	Country	Men Age-adjusted CKD prevalence (%)	Men KRT incidence (pmp)	Women Age-adjusted CKD prevalence (%)	Women KRT incidence (pmp)
High Income						
	High-income Asia-Pacific	Japan	8.5	296	10.4	296
	High-income Asia-Pacific	Singapore	9.1	333	11.7	333
	High-income North America	Canada	5.7	200	7.3	200
	High-income North America	United States	8	378	9.8	378
	Southern Latin America	Argentina	7.1	165	9.1	165
	Southern Latin America	Uruguay	6.6	166	8.5	166
	Western Europe	Austria	5.3	133	6.7	133
	Western Europe	Belgium, Dutch sp.	5.5	187	6.8	187
	Western Europe	Belgium, French sp.	5.5	188	6.8	188
	Western Europe	Denmark	5.6	128	6.9	128
	Western Europe	Finland	5.5	102	6.9	102
	Western Europe	France	5.1	165	6.4	165
	Western Europe	Greece	5.1	251	6.4	251
	Western Europe	Iceland	4.8	89	6.4	89
	Western Europe	Israel	6	191	7.4	191
	Western Europe	Italy	5	145	6	145
	Western Europe	Netherlands	6	117	7.3	117
	Western Europe	Norway	5.3	106	7.2	106
	Western Europe	Scotland	5.2	106	6.5	106
	Western Europe	Spain	4.8	142	6.1	142
	Western Europe	Sweden	7.6	121	7.1	121
	Western Europe	Switzerland	5.4	101	7	101
	Western Europe	United Kingdom	4.8	120	6.4	120
Central and Eastern Europe						
	Central and Eastern Europe	Albania	6.2	81	8.9	81

Central and Eastern Europe	Belarus	10.3	51	12.9	51
Central and Eastern Europe	Bulgaria	6.9	161	9.7	161
Central and Eastern Europe	Estonia	11.4	85	14.2	85
Central and Eastern Europe	Hungary	7	222	10.1	222
Central and Eastern Europe	Latvia	11	88	13.9	88
Central and Eastern Europe	Lithuania	10.5	107	13.2	107
Central and Eastern Europe	Macedonia	7.2	164	10.2	164
Central and Eastern Europe	Romania	6	175	9	175
Central and Eastern Europe	Russia	11.7	58	15	58
Central and Eastern Europe	Serbia	7.1	92	10.4	92
Central and Eastern Europe	Slovakia	6.6	128	9.5	128
Central and Eastern Europe	Ukraine	10.2	32	13.7	32

Other

Latin America	Peru	6.9	71	7.9	71
North Africa and Middle East	Jordan	9	60	12.9	60
South, East, and Southeast Asia	Indonesia	10.9	135	11.9	135
South, East, and Southeast Asia	Malaysia	11	259	12.5	259
South, East, and Southeast Asia	Taiwan	7.7	493	9.8	493

Supplementary Table S3. Age-adjusted CKD prevalence, all-cause and kidney disease-related mortality rates (59 countries).

Group	Country	Adjusted CKD prevalence (%)	Adjusted All-cause mortality (per 100 000 inhabitants)	Adjusted CKD mortality (per 100 000 inhabitants)
High Income				
	Australia	7.8	335.6	9.6
	New Zealand	7.7	357.3	2.5
	Japan	9.5	299.0	3.7
	Rep. of Korea	7.7	341.2	8.9
	Singapore	10.4	337.9	33.1
	Canada	6.6	340.6	5.8
	United States	9	492.7	3.1
	Argentina	8.2	555.4	20.8
	Chile	7.7	455.9	18.0
	Uruguay	7.7	537.7	13.3
	Austria	6.1	374.2	6.4
	Belgium	6.2	398.5	6.3
	Denmark	6.3	403.0	42.4
	Finland	6.3	389.2	19.3
	France	5.8	338.3	7.2
	Greece	5.8	397.2	5.1
	Iceland	5.6	356.8	13.3
	Israel	6.7	357.6	15.1
	Italy	5.6	343.2	20.1
	Netherlands	6.7	386.0	4.5
	Norway	6.3	358.4	3.2
	Portugal	6.3	385.5	3.7
	Spain	5.5	332.0	28.8
	Sweden	7.4	362.2	30.9
	Switzerland	6.3	326.0	3.7
	United Kingdom	5.6	390.2	5.5
Central and Eastern Europe				
	Albania	7.6	609.2	10.3
	Belarus	11.9	718.6	17.0
	Bosnia and Herzegovina	8.7	565.0	4.6
	Bulgaria	8.4	679.1	6.6
	Estonia	13.1	525.0	14.8
	Hungary	8.7	632.1	3.5
	Latvia	12.7	647.2	6.4
	Lithuania	12.1	649.3	9.6
	Macedonia	8.7	666.0	12.1
	Poland	7.8	531.5	13.0
	Romania	7.6	650.7	4.1
	Russia	13.7	797.8	10.4

	Serbia	8.9	629.8	10.9
	Slovakia	8.2	550.9	14.3
	Ukraine	12.3	789.3	4.0
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	Other			
	Brazil	7.6	614.0	25.8
	Colombia	10	610.9	8.0
	Guatemala	11.3	678.8	14.5
	Mexico	12.8	563.3	3.8
	Peru	7.4	590.5	45.2
	Iran	11.3	654.8	16.0
	Jordan	10.9	707.0	9.2
	Kuwait	10.4	788.0	7.8
	Qatar	10.5	527.6	29.7
	Saudi Arabia	10.4	699.5	5.4
	Turkey	10.9	586.3	3.5
	Bangladesh	8.4	720.2	4.1
	China	7.6	615.5	28.5
	Indonesia	11.4	999.8	22.1
	Malaysia	11.8	656.6	2.9
	Philippines	11.4	964.2	2.6
	Thailand	10.7	600.1	10.8
	South Africa	12.2	1212.5	10.8

Supplemental Table S4. Age-adjusted CKD prevalence and adjusted all-cause mortality, by gender and region (59 countries).

Group	Region	Country	Men Age-adjusted CKD prevalence (%)	Men adjusted all-cause mortality (per 100 000 inhabitants)	Women Age-adjusted CKD prevalence (%)	Women adjusted all- cause mortality (per 100 000 inhabitants)
High Income						
	Australasia	Australia	6.6	398	8.9	278
	Australasia	New Zealand	6	416	9.1	304
	High-income Asia-Pacific	Japan	8.5	401	10.4	217
	High-income Asia-Pacific	Rep. of Korea	7	464	8.4	247
	High-income Asia-Pacific	Singapore	9.1	415	11.7	272
	High-income North America	Canada	5.7	402	7.3	286
	High-income North America	United States	8	592	9.8	404
	Southern Latin America	Argentina	7.1	732	9.1	425
	Southern Latin America	Chile	6.7	582	8.6	356
	Southern Latin America	Uruguay	6.6	728	8.5	400
	Western Europe	Austria	5.3	465	6.7	298
	Western Europe	Belgium	5.5	493	6.8	319
	Western Europe	Denmark	5.6	479	6.9	337
	Western Europe	Finland	5.5	498	6.9	297
	Western Europe	France	5.1	433	6.4	256
	Western Europe	Greece	5.1	495	6.4	310
	Western Europe	Iceland	4.8	410	6.4	310
	Western Europe	Israel	6	434	7.4	294
	Western Europe	Italy	5	424	6	276
	Western Europe	Netherlands	6	452	7.3	331
	Western Europe	Norway	5.3	426	7.2	299
	Western Europe	Portugal	5.6	513	6.9	285
	Western Europe	Spain	4.8	431	6.1	249
	Western Europe	Sweden	7.6	427	7.1	305

Western Europe	Switzerland	5.4	395	7	267
Western Europe	United Kingdom	4.8	455	6.4	333
Central and Eastern Europe					
Central and Eastern Europe	Albania	6.2	726	8.9	502
Central and Eastern Europe	Belarus	10.3	1065	12.9	489
Central and Eastern Europe	Bosnia and Herzegovina	7	695	10.1	458
Central and Eastern Europe	Bulgaria	6.9	881	9.7	514
Central and Eastern Europe	Estonia	11.4	758	14.2	362
Central and Eastern Europe	Hungary	7	850	10.1	476
Central and Eastern Europe	Latvia	11	928	13.9	454
Central and Eastern Europe	Lithuania	10.5	966	13.2	433
Central and Eastern Europe	Macedonia	7.2	795	10.2	557
Central and Eastern Europe	Poland	6.3	726	9	381
Central and Eastern Europe	Romania	6	855	9	485
Central and Eastern Europe	Russia	11.7	1152	15	549
Central and Eastern Europe	Serbia	7.1	784	10.4	507
Central and Eastern Europe	Slovakia	6.6	740	9.5	408
Other					
Latin America	Brazil	6.9	786	8.2	469
Latin America	Colombia	9.7	773	10.3	471
Latin America	Guatemala	10.9	810	11.6	567
Latin America	Mexico	11.9	675	13.6	464
Latin America	Peru	6.9	707	7.9	488
North Africa and Middle East	Iran	9.5	708	13.1	599
North Africa and Middle East	Jordan	9	809	12.9	614
North Africa and Middle East	Kuwait	8.8	834	12.7	722
North Africa and Middle East	Qatar	9.5	564	13.6	455
North Africa and Middle East	Saudi Arabia	8.8	777	12.6	608
North Africa and Middle East	Turkey	8.9	763	12.6	452
South Asia	Bangladesh	7.6	804	9.3	636

South, East and Southeast Asia	China	6.6	697	8.6	539
Southeast Asia	Indonesia	10.9	1 155	11.9	865
Southeast Asia	Malaysia	11	761	12.5	552
Southeast Asia	Philippines	10.5	1 180	12.1	779
Southeast Asia	Thailand	9.9	765	11.4	455
Southern Sub-Saharan Africa	South Africa	10.2	1 551	13.6	977

Supplementary Table S5. Linear regression estimates for the association between age-adjusted CKD prevalence and A) KRT incidence, or B) age-adjusted mortality rates, by gender and by region.

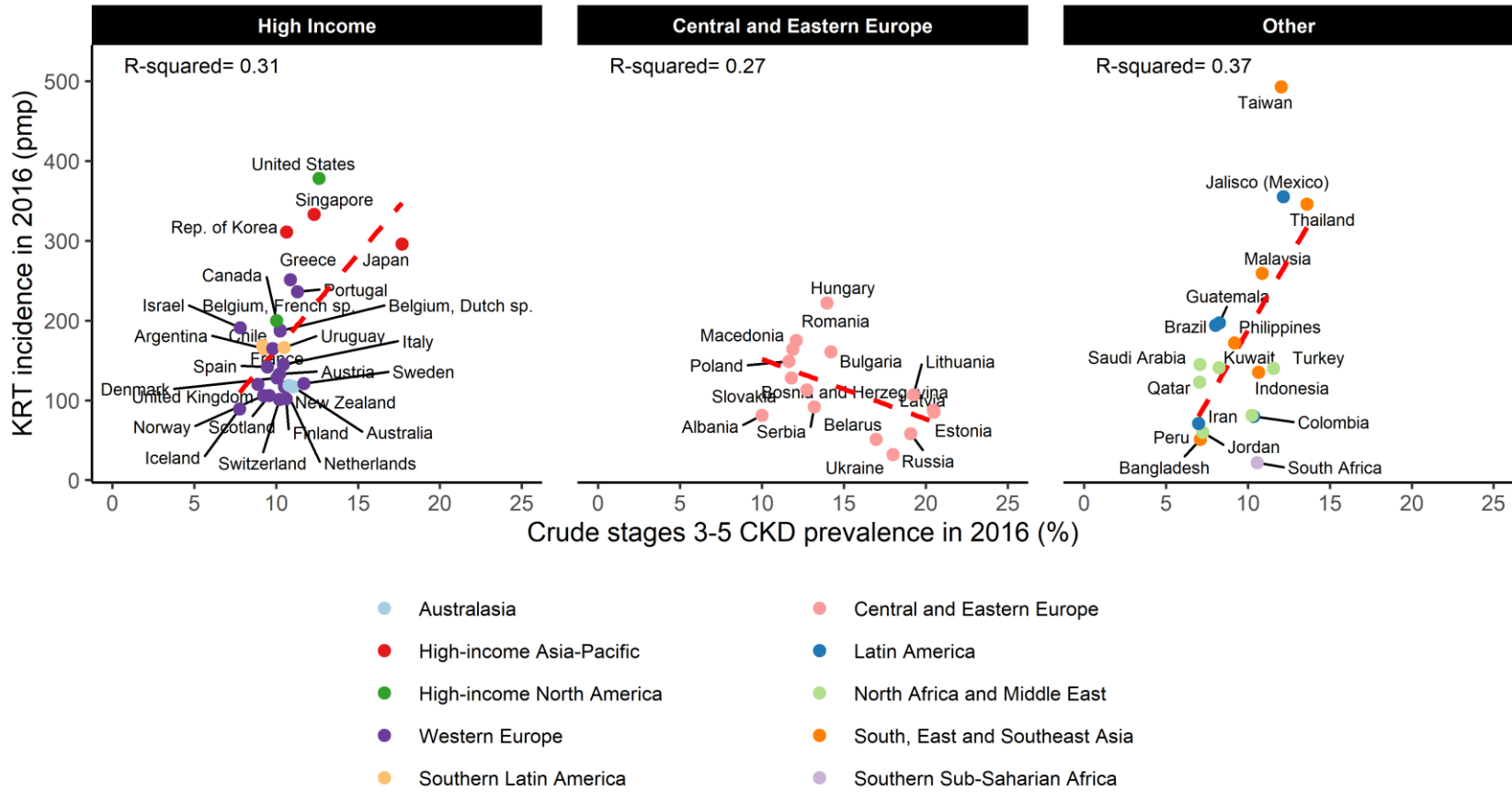
	Men			Women		
	β	R ²	P value	β	R ²	P value
A) KRT incidence						
High Income (N=23)	4407.2	0.49	<0.001	3873.8	0.56	<0.001
Central and Eastern Europe (N=13)	-1641.7	0.43	0.01	-1654.3	0.44	0.01
Other (N=5)	-893.5	0.01	0.88	-1138.5	0.02	0.83
B) Age-adjusted mortality rates (log)						
High Income (N=26)	2.5	0.03	0.39	0.9	0.01	0.69
Central and Eastern Europe (N=14)	5.1	0.47	0.005	0.35	0.00	0.84
Other (N=18)	4.4	0.23	0.25	3.5	0.08	0.25

A negative sign before the **beta** (β) coefficient indicates that the relation between CKD prevalence and KRT incidence or age-adjusted mortality rate is negative.

R-squared (R²) represents the proportion of the *variance* for KRT incidence or age-adjusted mortality rate that is *explained* by CKD prevalence.

Supplementary Figure S1: Incidence of KRT according to crude CKD prevalence, by region.

Legend: KRT, kidney replacement therapy; pmp, per million population; CKD, chronic kidney disease.



Supplementary Figure S2: Age-standardized CKD-related mortality according to age-standardized CKD prevalence, by region.

Legend: CKD, chronic kidney disease.

