

SUPPLEMENT

Table S1 The cancer registries and the time period included in this study	2
Table S2 Age-standardised incidence rates (ASIR) and age-standardised mortality rates (ASMR) for leukemia in adolescents and young adults (15-39 years) in 2024, both sexes.	4
Table S3 Age-standardised incidence rates (ASIR) and age-standardised mortality rates (ASMR) for leukemia in adolescents and young adults (15-39 years) in 2024, male.	9
Table S4 Age-standardised incidence rates (ASIR) and age-standardised mortality rates (ASMR) for leukemia in adolescents and young adults (15-39 years) in 2024, female.	14
Table S5 Average annual percentage change (AAPC) of acute lymphoblastic leukemia (ALL) incidence in adolescents and young adults (15-39 years) in the recent 15 years (2003-2017)	19
Table S6 Average annual percentage change (AAPC) of acute myeloid leukemia (AML) incidence in adolescents and young adults (15-39 years) in the recent 15 years (2003-2017)	21
Table S7 Average annual percentage change (AAPC) of chronic myeloid leukemia (CML) incidence in adolescents and young adults (15-39 years) in the recent 15 years (2003-2017)	23
Table S8 Average annual percentage change (AAPC) of lymphoblastic leukemia incidence in adolescents and young adults (15-39 years) in the recent 15 years (2003-2017)	24
Table S9 Average annual percentage change (AAPC) of myeloid leukemia incidence in adolescents and young adults (15-39 years) in the recent 15 years (2003-2017)	26
Figure S1. Average annual percentage change (AAPC) of lymphoblastic leukemia incidence in adolescents and young adults (15-39 years) in the recent 15 years (2003-2017). * Statistically significant.	28
Figure S2. Average annual percentage change (AAPC) of myeloid leukemia incidence in adolescents and young adults (15-39 years) in the recent 15 years (2003-2017). * Statistically significant.	29

Table S1 The cancer registries and the time period included in this study

Countries	Registries	Period
Argentina	Mendoza	2003-2017
Australia	New South Wales & Australian Capital Territory, Queensland, South, Tasmania, Victoria, Western, Northern Territory	1978-2017
Austria	National	1988-2017
Bahrain	National	1998-2017
Belarus	National	1983-2017
Canada	(Excl Nova Scotia, Northwest Territories, Nunavut, Quebec and Yukon)	1978-2017
Chile	National	1998-2017
China	Beijing, Qidong, Shanghai, Jiashan, Wuhan, Zhongshan, Harbin, Yanting	1993-2017
Colombia	Cali, Bucaramanga, Manizales, Pasto	1983-2017
Costa Rica	National	1982-2017
Croatia	National	1988-2017
Cyprus	National	1998-2017
Czech Republic	National	1983-2017
Denmark	National	1953-2017
Ecuador	Quito	1985-2017
Estonia	National	1983-2017
France	Bas-Rhin, Calvados, Doubs, Haut-Rhin, Isère, Somme, Hérault, Loire-Atlantique, Manche, Vendée	1977-2017
Germany	Hamburg, Bremen, Schleswig-Holstein, Saarland	1973-2017
Iceland	National	1958-2017
India	Mumbai, Chennai, Barshi, Dindigul Ambilikikai	1978-2017
Ireland	National	1994-2017
Israel	National	1963-2017
Italy	Umbria, Perugia, Trento, Syracuse, Palermo, South Tyrol	1994-2017
Japan	Miyagi Prefecture, Osaka	1971-2017
Kuwait	National	1998-2017
Latvia	National	1983-2017
Lithuania	National	1988-2017
Malta	National	1993-2017
Netherlands	National	1989-2017
New Zealand	National	1983-2017
Norway	National	1953-2017
Philippines	Manila	1983-2017
Poland	National	1999-2017
Puerto Rico	National	2003-2017
Qatar	National	2003-2017
Republic of Korea	National	1999-2017
Slovenia	National	1983-2017
Spain	Tarragona, Granada, Murcia, Navarra, Basque Country, Girona,	1977-2017

	Canary Islands, La Rioja	
Switzerland	Geneva, Vaud, Valais, Ticino, Graubünden and Glarus	1973-2017
Thailand	Chiang Mai, Khon Kaen, Songkhla, Lampang	1983-2017
Turkey	Izmir, Antalya	1998-2017
UK	England, Scotland, Northern Ireland, Wales	1971-2017
USA Black	SEER (9 Registries): Atlanta, Connecticut, Detroit, Hawaii, Iowa, New Mexico, San Francisco-Oakland, Seattle-Puget Sound, and Utah	1978-2017
USA White	SEER (9 Registries): Atlanta, Connecticut, Detroit, Hawaii, Iowa, New Mexico, San Francisco-Oakland, Seattle-Puget Sound, and Utah	1978-2017
Uganda	Kyadondo County	1993-2017

Table S2 Age-standardised incidence rates (ASIR) and age-standardised mortality rates (ASMR) for leukemia in adolescents and young adults (15-39 years) in 2024, both sexes.

Population	ASIR (per 100,000)	Incident cases	ASMR (per 100,000)	Death cases
Afghanistan	2.05	360	1.13	198
Albania	1.83	19	0.66	7
Algeria	1.58	273	0.80	138
Angola	1.12	166	0.53	78
Azerbaijan	2.46	99	1.28	51
Argentina	2.61	447	1.45	253
Australia	2.58	245	0.61	56
Austria	1.93	53	0.50	14
Bahamas	1.52	2	0.76	1
Bahrain	3.34	25	2.16	15
Bangladesh	1.26	942	0.70	522
Armenia	1.97	21	1.05	11
Barbados	6.80	6	0.89	1
Belgium	2.90	108	0.63	24
Bhutan	2.49	9	1.92	7
Bolivia (Plurinational State of)	4.97	258	2.81	146
Bosnia Herzegovina	2.65	23	0.39	4
Botswana	0.10	1	0.10	1
Brazil	2.00	1602	1.31	1052
Belize	2.14	4	1.07	2
Solomon Islands	3.28	11	1.18	4
Brunei Darussalam	2.73	4	2.73	4
Bulgaria	2.19	42	0.77	16
Myanmar	3.95	840	2.44	520
Burundi	1.54	82	0.90	48
Belarus	1.68	50	0.84	25
Cambodia	1.47	105	0.88	63
Cameroon	0.15	19	0.09	11
Canada	2.41	326	0.78	103
Cape Verde	1.38	3	1.38	3
Central African Republic	1.27	21	0.76	12
Sri Lanka	3.14	264	1.63	137
Chad	0.89	69	0.56	43
Chile	2.00	146	1.15	83
China	2.45	11367	1.11	5082
Colombia	3.65	770	2.07	443
Comoros	0.00	0	0.00	0
Congo, Republic of	0.93	23	0.53	13

Congo, Democratic Republic of	1.15	449	0.67	261
Costa Rica	1.79	34	1.77	35
Croatia	2.78	31	0.61	7
Cuba	2.70	93	1.47	50
Cyprus	2.81	14	0.39	3
Czechia	1.49	48	0.59	18
Benin	1.61	92	1.01	58
Denmark	2.42	47	0.56	11
Dominican Republic	2.13	98	1.20	55
Ecuador	3.48	261	2.09	156
El Salvador	3.95	109	2.29	63
Equatorial Guinea	1.34	10	1.09	8
Ethiopia	1.72	976	0.95	543
Eritrea	1.71	23	0.79	10
Estonia	1.79	8	0.15	1
Fiji	3.99	15	1.58	6
Finland	1.88	32	0.18	4
France (metropolitan)	2.88	586	0.72	148
French Guyana	0.00	0	0.00	0
French Polynesia	0.00	0	0.00	0
Djibouti	2.04	10	1.63	8
Gabon	1.00	10	0.81	8
Georgia	2.57	34	1.09	15
The Republic of the Gambia	0.54	6	0.44	5
Gaza Strip and West Bank	2.38	54	1.10	25
Germany	2.01	551	0.69	166
Ghana	0.58	80	0.38	52
Greece	2.93	78	0.82	22
France, Guadeloupe	4.16	4	4.16	4
Guam	0.00	0	0.00	0
Guatemala	5.35	442	3.08	254
Guinea	1.32	82	0.63	39
Guyana	3.24	11	1.13	4
Haiti	1.91	99	0.53	28
Honduras	6.38	299	3.67	172
Hungary	1.99	54	0.77	23
Iceland	0.56	1	0.00	0
India	2.04	12520	1.09	6712
Indonesia	3.06	3365	1.52	1664
Iran, Islamic Republic of	2.71	981	1.37	488
Iraq	2.77	526	1.40	265
Ireland	1.67	29	0.30	5
Israel	2.02	67	0.54	18
Italy	2.60	407	0.75	122

Côte d'Ivoire	0.59	75	0.35	45
Jamaica	2.90	37	1.67	21
Japan	3.36	1049	0.66	210
Kazakhstan	2.05	151	1.20	88
Jordan	1.81	89	0.98	48
Kenya	1.12	274	0.62	152
Korea, Democratic People's Republic of	2.58	239	1.43	131
Korea, Republic of	3.24	508	0.89	144
Kuwait	2.29	48	1.26	26
Kyrgyzstan	2.53	70	1.48	41
Lao People's Democratic Republic	2.96	100	1.75	59
Lebanon	3.10	66	1.55	33
Lesotho	1.42	15	0.95	10
Latvia	1.47	9	0.37	3
Liberia	0.74	17	0.53	12
Libya	2.05	59	0.93	27
Lithuania	2.39	22	0.00	0
Luxembourg	0.00	0	0.00	0
Madagascar	0.74	96	0.44	57
Malawi	0.32	30	0.19	18
Malaysia	2.70	416	1.74	264
Maldives	2.99	8	2.76	7
Mali	0.36	33	0.22	20
Malta	2.09	4	0.00	0
France, Martinique	0.00	0	0.00	0
Mauritania	0.85	17	0.51	10
Mauritius	2.65	12	1.41	6
Mexico	3.18	1663	2.25	1182
Mongolia	2.25	30	1.30	17
Republic of Moldova	1.71	17	0.69	7
Montenegro	1.00	2	0.00	0
Morocco	1.39	204	0.72	106
Mozambique	0.82	109	0.49	65
Oman	2.54	71	1.39	38
Namibia	1.52	19	0.97	12
Nepal	1.41	180	0.73	93
The Netherlands	2.45	146	0.58	35
Curaçao	0.00	0	0.00	0
New Caledonia	3.54	4	0.00	0
Vanuatu	3.10	4	0.00	0
New Zealand	2.58	47	0.75	14
Nicaragua	5.58	166	3.10	92

Niger	1.11	104	0.67	63
Nigeria	0.44	411	0.27	252
Norway	2.41	46	0.63	12
Pakistan	1.31	1341	0.76	782
Panama	3.38	59	1.72	30
Papua New Guinea	1.97	89	1.11	50
Paraguay	2.52	73	1.45	42
Peru	4.98	685	2.89	396
Philippines	2.45	1223	1.70	849
Poland	2.14	254	0.75	95
Portugal	4.08	109	0.94	27
Guinea-Bissau	0.43	4	0.43	4
Timor-Leste	2.26	14	1.81	11
Puerto Rico	3.55	36	1.89	19
Qatar	3.60	57	2.02	30
France, La Réunion	1.03	3	0.30	1
Romania	2.12	120	1.00	58
Russian Federation	1.84	896	0.90	442
Rwanda	2.51	148	1.47	87
Saint Lucia	0.00	0	0.00	0
Sao Tome and Principe	0.00	0	0.00	0
Saudi Arabia	1.82	316	0.86	150
Senegal	0.75	58	0.42	32
Serbia	3.03	61	1.26	26
Sierra Leone	0.90	32	0.48	17
Singapore	2.05	51	0.56	14
Slovakia	1.35	21	0.43	8
Viet Nam	1.61	594	0.83	308
Slovenia	2.01	12	0.78	4
Somalia	1.29	94	0.78	57
South Africa	1.23	341	0.77	212
Zimbabwe	1.45	95	0.79	52
Spain	1.94	257	0.70	91
South Sudan	1.38	61	0.68	29
Sudan	2.01	374	0.97	178
Suriname	2.00	5	0.00	0
Eswatini	0.92	5	0.92	5
Sweden	2.05	71	0.51	18
Switzerland	2.95	76	0.45	13
Syrian Arab Republic	2.76	305	1.38	153
Tajikistan	1.87	80	1.13	48
Thailand	2.27	540	1.21	285
Togo	0.62	23	0.35	13
Trinidad and Tobago	2.06	11	0.86	5

United Arab Emirates	1.32	70	0.41	19
Tunisia	1.62	72	0.94	42
Türkiye	2.71	894	1.18	391
Turkmenistan	2.45	71	1.45	42
Uganda	1.46	296	0.87	177
Ukraine	2.14	257	1.02	132
North Macedonia	2.95	16	1.03	6
Egypt	2.31	1083	1.07	506
United Kingdom	2.04	458	0.63	139
Tanzania, United Republic of	0.77	204	0.46	121
United States of America	3.18	3819	0.72	866
Burkina Faso	0.46	46	0.27	27
Uruguay	2.06	25	1.47	18
Uzbekistan	3.36	481	1.91	272
Venezuela	2.33	246	1.61	169
Samoa	0.00	0	0.00	0
Yemen	2.78	465	1.41	235
Zambia	0.65	57	0.42	37

Note: The estimated numbers of incident cases and deaths are presented alongside the ASIRs and ASMRs to provide context regarding the absolute burden. Estimates for small populations should be interpreted cautiously because of small numbers and modelling uncertainty.

Table S3 Age-standardised incidence rates (ASIR) and age-standardised mortality rates (ASMR) for leukemia in adolescents and young adults (15-39 years) in 2024, male.

Population	ASIR (per 100,000)	Incident cases	ASMR (per 100,000)	Death cases
Afghanistan	2.07	185	1.10	98
Albania	2.27	12	0.99	5
Algeria	1.87	165	0.90	79
Angola	1.82	136	0.79	59
Azerbaijan	3.32	65	1.75	34
Argentina	2.72	235	1.69	150
Australia	2.89	139	0.78	36
Austria	2.29	32	0.55	8
Bahamas	3.06	2	1.53	1
Bahrain	5.03	23	3.13	13
Bangladesh	1.56	546	0.82	286
Armenia	2.26	12	1.13	6
Barbados	9.41	4	0.00	0
Belgium	3.39	63	0.75	14
Bhutan	2.40	5	2.01	4
Bolivia (Plurinational State of)	6.49	171	3.84	101
Bosnia Herzegovina	3.64	16	0.58	3
Botswana	0.20	1	0.20	1
Brazil	2.14	857	1.46	586
Belize	1.72	2	0.86	1
Solomon Islands	4.10	7	1.12	2
Brunei Darussalam	2.61	2	2.61	2
Bulgaria	2.41	25	0.89	10
Myanmar	3.83	417	2.30	251
Burundi	1.63	43	0.90	24
Belarus	1.87	29	0.93	14
Cambodia	1.61	57	0.96	34
Cameroon	0.15	10	0.09	6
Canada	2.56	176	0.87	56
Cape Verde	1.66	2	1.66	2
Central African Republic	0.61	5	0.20	1
Sri Lanka	3.65	152	1.85	77
Chad	0.80	32	0.45	18
Chile	2.31	85	1.34	49
China	2.81	6812	1.33	3182
Colombia	3.85	409	2.37	254
Comoros	0.00	0	0.00	0
Congo, Republic of	1.28	16	0.73	9
Congo, Democratic Republic of	0.98	194	0.51	102

Costa Rica	2.48	24	2.40	24
Croatia	3.17	18	0.92	5
Cuba	3.01	53	1.65	29
Cyprus	2.46	6	0.49	2
Czechia	1.78	29	0.74	11
Benin	1.61	46	0.94	27
Denmark	2.66	26	0.60	6
Dominican Republic	2.63	61	1.51	35
Ecuador	3.76	142	2.23	84
El Salvador	4.92	68	2.75	38
Equatorial Guinea	1.73	7	1.26	5
Ethiopia	2.38	684	1.24	357
Eritrea	1.44	10	0.19	1
Estonia	2.18	5	0.30	1
Fiji	4.24	8	2.10	4
Finland	2.16	19	0.17	2
France (metropolitan)	2.99	306	0.84	86
French Guyana	0.00	0	0.00	0
French Polynesia	0.00	0	0.00	0
Djibouti	1.99	5	1.99	5
Gabon	1.36	7	0.98	5
Georgia	2.56	17	1.19	8
The Republic of the Gambia	0.33	2	0.33	2
Gaza Strip and West Bank	3.02	34	1.34	15
Germany	2.30	315	0.78	90
Ghana	0.29	20	0.19	13
Greece	2.43	33	0.80	11
France, Guadeloupe	7.47	3	7.47	3
Guam	0.00	0	0.00	0
Guatemala	5.61	233	3.11	129
Guinea	1.60	49	0.66	20
Guyana	2.39	4	1.19	2
Haiti	1.87	48	0.25	7
Honduras	6.94	164	3.90	92
Hungary	2.10	29	0.85	13
Iceland	1.05	1	0.00	0
India	2.42	7748	1.25	3982
Indonesia	3.62	2031	1.78	996
Iran, Islamic Republic of	3.06	561	1.46	265
Iraq	3.11	300	1.49	143
Ireland	1.71	15	0.59	5
Israel	2.20	37	0.65	11
Italy	3.20	256	0.94	77
Côte d'Ivoire	0.53	35	0.32	21

Jamaica	2.45	16	1.24	8
Japan	3.84	611	0.83	135
Kazakhstan	2.37	88	1.38	51
Jordan	1.96	50	1.06	27
Kenya	1.22	150	0.57	70
Korea, Democratic People's Republic of	2.70	128	1.46	68
Korea, Republic of	3.93	324	1.02	87
Kuwait	2.50	32	1.30	16
Kyrgyzstan	2.92	40	1.68	23
Lao People's Democratic Republic	3.05	52	1.78	30
Lebanon	3.24	34	1.53	16
Lesotho	1.72	9	0.96	5
Latvia	1.18	4	0.49	2
Liberia	0.68	8	0.53	6
Libya	1.44	21	0.54	8
Lithuania	3.00	15	0.00	0
Luxembourg	0.00	0	0.00	0
Madagascar	0.84	55	0.47	31
Malawi	0.30	14	0.17	8
Malaysia	3.27	266	2.03	162
Maldives	4.10	6	3.78	5
Mali	0.21	11	0.12	6
Malta	3.85	4	0.00	0
France, Martinique	0.00	0	0.00	0
Mauritania	0.71	7	0.53	5
Mauritius	2.08	5	1.33	3
Mexico	2.87	742	2.59	675
Mongolia	2.30	16	1.29	9
Republic of Moldova	1.67	8	1.12	5
Montenegro	1.97	2	0.00	0
Morocco	1.73	129	0.90	67
Mozambique	0.99	64	0.55	36
Oman	3.06	56	1.64	29
Namibia	1.62	10	0.98	6
Nepal	1.43	85	0.74	44
The Netherlands	2.66	81	0.54	16
Curaçao	0.00	0	0.00	0
New Caledonia	2.03	1	0.00	0
Vanuatu	3.21	2	0.00	0
New Zealand	2.73	25	0.82	8
Nicaragua	6.78	101	3.76	56
Niger	0.43	24	0.25	14
Nigeria	0.43	197	0.24	111
Norway	2.82	27	0.70	7

Pakistan	1.31	688	0.74	392
Panama	3.83	34	1.90	17
Papua New Guinea	2.26	53	1.24	29
Paraguay	2.79	41	1.65	24
Peru	5.43	370	3.21	218
Philippines	2.64	663	1.90	479
Poland	2.60	159	0.87	54
Portugal	4.06	53	1.09	16
Guinea-Bissau	0.41	2	0.41	2
Timor-Leste	2.55	8	1.95	6
Puerto Rico	4.03	20	2.05	10
Qatar	4.00	47	2.19	24
France, La Réunion	1.39	2	0.00	0
Romania	2.62	74	1.21	35
Russian Federation	1.66	424	1.05	255
Rwanda	2.09	61	1.13	33
Saint Lucia	0.00	0	0.00	0
Sao Tome and Principe	0.00	0	0.00	0
Saudi Arabia	2.10	227	0.99	107
Senegal	0.64	25	0.23	9
Serbia	4.03	41	1.57	16
Sierra Leone	0.67	12	0.39	7
Singapore	1.57	20	0.39	5
Slovakia	0.80	6	0.30	3
Viet Nam	1.79	331	0.95	174
Slovenia	1.91	6	1.48	4
Somalia	1.56	58	0.87	32
South Africa	1.20	166	0.78	107
Zimbabwe	1.66	53	0.74	24
Spain	1.98	131	0.77	50
South Sudan	1.22	28	0.40	9
Sudan	0.97	92	0.13	11
Suriname	0.00	0	0.00	0
Eswatini	1.47	4	1.47	4
Sweden	2.50	45	0.49	9
Switzerland	2.11	27	0.54	8
Syrian Arab Republic	3.08	173	1.46	82
Tajikistan	2.02	42	1.16	24
Thailand	2.51	300	1.31	156
Togo	0.37	7	0.26	5
Trinidad and Tobago	1.90	5	0.24	1
United Arab Emirates	1.04	32	0.24	4
Tunisia	1.82	40	1.00	22
Türkiye	2.88	483	1.26	212

Turkmenistan	2.15	31	1.27	18
Uganda	1.87	189	1.06	107
Ukraine	2.47	148	1.12	74
North Macedonia	3.58	10	1.79	5
Egypt	2.63	626	1.23	295
United Kingdom	2.29	261	0.75	83
Tanzania, United Republic of	0.93	122	0.52	68
United States of America	3.48	2150	0.81	501
Burkina Faso	0.73	38	0.42	22
Uruguay	2.59	16	1.63	10
Uzbekistan	3.56	260	2.00	145
Venezuela	2.67	143	1.94	103
Samoa	0.00	0	0.00	0
Yemen	3.11	264	1.49	126
Zambia	0.64	28	0.36	16

Note: The estimated numbers of incident cases and deaths are presented alongside the ASIRs and ASMRs to provide context regarding the absolute burden. Estimates for small populations should be interpreted cautiously because of small numbers and modelling uncertainty.

Table S4 Age-standardised incidence rates (ASIR) and age-standardised mortality rates (ASMR) for leukemia in adolescents and young adults (15-39 years) in 2024, female.

Population	ASIR (per 100,000)	Incident cases	ASMR (per 100,000)	Death cases
Afghanistan	2.03	175	1.16	100
Albania	1.36	7	0.31	2
Algeria	1.27	108	0.69	59
Angola	0.43	30	0.27	19
Azerbaijan	1.58	34	0.79	17
Argentina	2.49	212	1.20	103
Australia	2.26	106	0.42	20
Austria	1.56	21	0.45	6
Bahamas	0.00	0	0.00	0
Bahrain	0.80	2	0.80	2
Bangladesh	0.99	396	0.59	236
Armenia	1.71	9	0.97	5
Barbados	4.11	2	1.76	1
Belgium	2.40	45	0.52	10
Bhutan	2.59	4	1.84	3
Bolivia (Plurinational State of)	3.43	87	1.76	45
Bosnia Herzegovina	1.57	7	0.17	1
Botswana	0.00	0	0.00	0
Brazil	1.86	745	1.16	466
Belize	2.57	2	1.28	1
Solomon Islands	2.45	4	1.23	2
Brunei Darussalam	2.86	2	2.86	2
Bulgaria	1.96	17	0.65	6
Myanmar	4.07	423	2.59	269
Burundi	1.45	39	0.90	24
Belarus	1.47	21	0.73	11
Cambodia	1.33	48	0.80	29
Cameroon	0.15	9	0.08	5
Canada	2.26	150	0.69	47
Cape Verde	1.10	1	1.10	1
Central African Republic	1.79	16	1.22	11
Sri Lanka	2.64	112	1.42	60
Chad	0.98	37	0.67	25
Chile	1.68	61	0.95	34
China	2.05	4555	0.87	1900
Colombia	3.46	361	1.77	189
Comoros	0.00	0	0.00	0
Congo, Republic of	0.58	7	0.33	4
Congo, Democratic Republic of	1.32	255	0.82	159

Costa Rica	1.07	10	1.12	11
Croatia	2.37	13	0.29	2
Cuba	2.37	40	1.27	21
Cyprus	3.21	8	0.27	1
Czechia	1.19	19	0.44	7
Benin	1.61	46	1.08	31
Denmark	2.17	21	0.51	5
Dominican Republic	1.63	37	0.89	20
Ecuador	3.19	119	1.94	72
El Salvador	2.98	41	1.82	25
Equatorial Guinea	0.89	3	0.89	3
Ethiopia	1.05	292	0.67	186
Eritrea	1.97	13	1.38	9
Estonia	1.36	3	0.00	0
Fiji	3.74	7	1.06	2
Finland	1.58	13	0.18	2
France (metropolitan)	2.77	280	0.61	62
French Guyana	0.00	0	0.00	0
French Polynesia	0.00	0	0.00	0
Djibouti	2.09	5	1.26	3
Gabon	0.63	3	0.63	3
Georgia	2.58	17	1.00	7
The Republic of the Gambia	0.75	4	0.56	3
Gaza Strip and West Bank	1.75	20	0.87	10
Germany	1.70	236	0.59	76
Ghana	0.87	60	0.57	39
Greece	3.47	45	0.85	11
France, Guadeloupe	1.51	1	1.51	1
Guam	0.00	0	0.00	0
Guatemala	5.08	209	3.04	125
Guinea	1.04	33	0.60	19
Guyana	4.04	7	1.06	2
Haiti	1.95	51	0.82	21
Honduras	5.80	135	3.44	80
Hungary	1.87	25	0.67	10
Iceland	0.00	0	0.00	0
India	1.61	4772	0.92	2730
Indonesia	2.46	1334	1.25	668
Iran, Islamic Republic of	2.35	420	1.27	223
Iraq	2.42	226	1.31	122
Ireland	1.63	14	0.00	0
Israel	1.83	30	0.42	7
Italy	1.95	151	0.55	45
Côte d'Ivoire	0.64	40	0.39	24

Jamaica	3.37	21	2.12	13
Japan	2.86	438	0.48	75
Kazakhstan	1.72	63	1.01	37
Jordan	1.65	39	0.89	21
Kenya	1.02	124	0.68	82
Korea, Democratic People's Republic of	2.45	111	1.40	63
Korea, Republic of	2.48	184	0.75	57
Kuwait	1.99	16	1.24	10
Kyrgyzstan	2.12	30	1.26	18
Lao People's Democratic Republic	2.86	48	1.73	29
Lebanon	2.97	32	1.58	17
Lesotho	1.13	6	0.94	5
Latvia	1.77	5	0.24	1
Liberia	0.79	9	0.53	6
Libya	2.70	38	1.35	19
Lithuania	1.72	7	0.00	0
Luxembourg	0.00	0	0.00	0
Madagascar	0.65	41	0.41	26
Malawi	0.33	16	0.20	10
Malaysia	2.06	150	1.42	102
Maldives	1.55	2	1.55	2
Mali	0.52	22	0.33	14
Malta	0.00	0	0.00	0
France, Martinique	0.00	0	0.00	0
Mauritania	0.98	10	0.49	5
Mauritius	3.24	7	1.49	3
Mexico	3.48	921	1.91	507
Mongolia	2.19	14	1.31	8
Republic of Moldova	1.75	9	0.28	2
Montenegro	0.00	0	0.00	0
Morocco	1.03	75	0.53	39
Mozambique	0.67	45	0.43	29
Oman	1.68	15	1.02	9
Namibia	1.42	9	0.96	6
Nepal	1.39	95	0.73	49
The Netherlands	2.23	65	0.62	19
Curaçao	0.00	0	0.00	0
New Caledonia	5.01	3	0.00	0
Vanuatu	3.03	2	0.00	0
New Zealand	2.41	22	0.67	6
Nicaragua	4.38	65	2.44	36
Niger	1.81	80	1.10	49
Nigeria	0.46	214	0.31	141
Norway	1.99	19	0.57	5

Pakistan	1.30	653	0.78	390
Panama	2.92	25	1.53	13
Papua New Guinea	1.68	36	0.98	21
Paraguay	2.24	32	1.25	18
Peru	4.54	315	2.56	178
Philippines	2.26	560	1.49	370
Poland	1.66	95	0.63	41
Portugal	4.09	56	0.79	11
Guinea-Bissau	0.44	2	0.44	2
Timor-Leste	1.97	6	1.66	5
Puerto Rico	3.06	16	1.72	9
Qatar	2.31	10	1.44	6
France, La Réunion	0.74	1	0.54	1
Romania	1.60	46	0.79	23
Russian Federation	2.03	472	0.76	187
Rwanda	2.91	87	1.81	54
Saint Lucia	0.00	0	0.00	0
Sao Tome and Principe	0.00	0	0.00	0
Saudi Arabia	1.39	89	0.67	43
Senegal	0.86	33	0.60	23
Serbia	2.04	20	0.95	10
Sierra Leone	1.12	20	0.56	10
Singapore	2.61	31	0.75	9
Slovakia	1.92	15	0.57	5
Viet Nam	1.42	263	0.72	134
Slovenia	2.11	6	0.00	0
Somalia	1.01	36	0.70	25
South Africa	1.25	175	0.75	105
Zimbabwe	1.25	42	0.84	28
Spain	1.91	126	0.63	41
South Sudan	1.53	33	0.94	20
Sudan	3.01	282	1.78	167
Suriname	4.06	5	0.00	0
Eswatini	0.37	1	0.37	1
Sweden	1.57	26	0.53	9
Switzerland	3.83	49	0.36	5
Syrian Arab Republic	2.43	132	1.31	71
Tajikistan	1.73	38	1.09	24
Thailand	2.02	240	1.09	129
Togo	0.88	16	0.44	8
Trinidad and Tobago	2.22	6	1.50	4
United Arab Emirates	1.87	38	0.76	15
Tunisia	1.41	32	0.88	20
Türkiye	2.53	411	1.09	179

Turkmenistan	2.75	40	1.64	24
Uganda	1.05	107	0.68	70
Ukraine	1.79	109	0.91	58
North Macedonia	2.30	6	0.26	1
Egypt	1.98	457	0.91	211
United Kingdom	1.79	197	0.51	56
Tanzania, United Republic of	0.62	82	0.40	53
United States of America	2.86	1669	0.62	365
Burkina Faso	0.19	8	0.12	5
Uruguay	1.52	9	1.30	8
Uzbekistan	3.15	221	1.81	127
Venezuela	1.98	103	1.28	66
Samoa	0.00	0	0.00	0
Yemen	2.44	201	1.32	109
Zambia	0.67	29	0.48	21

Note: The estimated numbers of incident cases and deaths are presented alongside the ASIRs and ASMRs to provide context regarding the absolute burden. Estimates for small populations should be interpreted cautiously because of small numbers and modelling uncertainty.

Table S5 Average annual percentage change (AAPC) of acute lymphoblastic leukemia (ALL) incidence in adolescents and young adults (15-39 years) in the recent 15 years (2003-2017)

Region	Country	Period	Gender	Cases	AAPC (95% CI)
Oceania	Australia	2003-2017	Male	638	1.6 (-0.6 to 3.9)
Oceania	Australia	2003-2017	Female	342	2.9 (-0.3 to 6.3)
Europe	Austria	2003-2017	Male	178	-1.8 (-5.9 to 2.4)
Europe	Austria	2003-2017	Female	107	-10.2 (-27.5 to 11.1)
Europe	Belarus	2003-2017	Male	211	-2.7 (-5.3 to -0.1)
Europe	Belarus	2003-2017	Female	114	-3.7 (-11.3 to 4.5)
North America	Canada	2003-2017	Male	561	4.4 (2.5 to 6.4)
North America	Canada	2003-2017	Female	291	5.7 (2.3 to 9.3)
Asia	China	2003-2017	Male	445	-0.1 (-2.3 to 2.1)
Asia	China	2003-2017	Female	273	0.1 (-3.6 to 3.9)
Latin America and The Carribean	Colombia	2003-2017	Male	223	3.7 (-0.4 to 7.9)
Latin America and The Carribean	Colombia	2003-2017	Female	162	4.6 (0.1 to 9.3)
Latin America and The Carribean	Costa Rica	2003-2017	Male	147	-9.7 (-15.2 to -3.8)
Latin America and The Carribean	Costa Rica	2003-2017	Female	86	NA
Europe	Denmark	2003-2017	Male	140	4.3 (0.5 to 8.1)
Europe	Denmark	2003-2017	Female	68	NA
Latin America and The Carribean	Ecuador	2003-2017	Male	131	0.1 (-3.2 to 3.5)
Latin America and The Carribean	Ecuador	2003-2017	Female	77	NA
Europe	Germany	2003-2017	Male	165	2.9 (-0.1 to 6.9)
Europe	Germany	2003-2017	Female	104	-4.2 (-7.5 to -0.8)
Asia	India	2003-2017	Male	551	2.8 (0.4 to 5.2)
Asia	India	2003-2017	Female	244	1.6 (-1.1 to 4.3)
Europe	Israel	2003-2017	Male	332	-2.6 (-5.9 to 0.9)
Europe	Israel	2003-2017	Female	166	-4.8 (-9.8 to 0.6)
Asia	Japan	2003-2017	Male	185	-11.8 (-29.7 to 10.5)
Asia	Japan	2003-2017	Female	144	5.3 (-1.6 to 12.8)
Europe	Netherlands	2003-2017	Male	377	3.0 (0.8 to 5.3)
Europe	Netherlands	2003-2017	Female	233	0.3 (-2.9 to 3.6)
Oceania	New Zealand	2003-2017	Male	127	1.3 (-2.8 to 5.5)
Oceania	New Zealand	2003-2017	Female	84	NA
Europe	Norway	2003-2017	Male	138	4.0 (-0.5 to 8.8)
Europe	Norway	2003-2017	Female	76	NA
Asia	Philippines	2003-2017	Male	189	0.8 (-3.6 to 5.4)

Asia	Philippines	2003-2017	Female	103	-0.5 (-5.5 to 4.8)
Asia	Republic of Korea	2003-2017	Male	1137	3.3 (1.4 to 5.2)
Asia	Republic of Korea	2003-2017	Female	751	3.0 (1.6 to 4.4)
Europe	Spain	2003-2017	Male	172	-3.0 (-8.0 to 2.1)
Europe	Spain	2003-2017	Female	106	-2.3 (-7 to 2.6)
Asia	Thailand	2003-2017	Male	100	3.5 (-0.7 to 8.0)
Asia	Thailand	2003-2017	Female	71	NA
Asia	Turkey	2003-2017	Male	173	1.1 (-2.1 to 4.3)
Asia	Turkey	2003-2017	Female	116	-0.1 (-5.6 to 5.7)
Europe	UK	2003-2017	Male	1333	1.2 (-0.4 to 2.8)
Europe	UK	2003-2017	Female	697	0.6 (-1.0 to 2.2)
North America	USA White	2003-2017	Male	686	3.2 (-0.3 to 6.8)
North America	USA White	2003-2017	Female	406	2.0 (-1.0 to 5.2)

Note: Case counts represent the cumulative number of cases among AYAs aged 15-39 years during the common analytical period from 2003 to 2017. The ≥ 100 -case eligibility criterion was applied separately by leukemia subtype and sex.

Table S6 Average annual percentage change (AAPC) of acute myeloid leukemia (AML) incidence in adolescents and young adults (15-39 years) in the recent 15 years (2003-2017)

Region	Country	Period	Gender	Cases	AAPC (95% CI)
Oceania	Australia	2003-2017	Male	701	-2.9 (-5.2 to -0.5)
Oceania	Australia	2003-2017	Female	667	-0.8 (-2.5 to 1.0)
Europe	Austria	2003-2017	Male	267	-0.8 (-3.9 to 2.3)
Europe	Austria	2003-2017	Female	232	-1.4 (-5.5 to 2.9)
Europe	Belarus	2003-2017	Male	222	-1.0 (-4.7 to 2.8)
Europe	Belarus	2003-2017	Female	225	-2.0 (-6.0 to 2.1)
North America	Canada	2003-2017	Male	639	-1.0 (-3.3 to 1.4)
North America	Canada	2003-2017	Female	670	1.3 (-0.9 to 3.6)
Asia	China	2003-2017	Male	739	-0.1 (-1.9 to 1.8)
Asia	China	2003-2017	Female	613	-1.8 (-3.9 to 0.3)
Latin America and The Carribean	Colombia	2003-2017	Male	103	8.5 (1.2 to 16.2)
Latin America and The Carribean	Colombia	2003-2017	Female	103	5.3 (-2.1 to 13.3)
Europe	Czech Republic	2003-2017	Male	191	-1.1 (-5.5 to 3.6)
Europe	Czech Republic	2003-2017	Female	171	0.3 (-3.2 to 3.9)
Europe	Denmark	2003-2017	Male	117	-5.7 (-9.3 to -1.9)
Europe	Denmark	2003-2017	Female	119	0.2 (-4.4 to 4.9)
Europe	Germany	2003-2017	Male	181	3.7 (-0.7 to 8.4)
Europe	Germany	2003-2017	Female	180	-2.7 (-6.4 to 1.1)
Asia	India	2003-2017	Male	491	0.5 (-1.9 to 3.1)
Asia	India	2003-2017	Female	408	-1.9 (-5.0 to 1.3)
Europe	Ireland	2003-2017	Male	90	NA
Europe	Ireland	2003-2017	Female	119	-1.1 (-7.0 to 5.2)
Europe	Israel	2003-2017	Male	372	-1.3 (-3.7 to 1.3)
Europe	Israel	2003-2017	Female	349	-2.4 (-5.0 to 0.4)
Asia	Japan	2003-2017	Male	295	3.1 (-0.1 to 6.4)
Asia	Japan	2003-2017	Female	257	3.2 (-0.1 to 6.5)
Europe	Netherlands	2003-2017	Male	365	-0.9 (-3.2 to 1.5)
Europe	Netherlands	2003-2017	Female	408	-1.6 (-4.0 to 0.9)
Oceania	New Zealand	2003-2017	Male	154	-1.3 (-5.6 to 3.3)
Oceania	New Zealand	2003-2017	Female	146	-1.4 (-4.6 to 2.0)
Europe	Norway	2003-2017	Male	117	-0.9 (-5.1 to 3.4)
Europe	Norway	2003-2017	Female	108	1.4 (-5.0 to 8.2)
Asia	Philippines	2003-2017	Male	221	-3.1 (-6.1 to 0.1)
Asia	Philippines	2003-2017	Female	231	-0.5 (-3.0 to 2.0)
Asia	Republic of Korea	2003-2017	Male	2050	1.2 (0.4 to 2.0)
Asia	Republic of Korea	2003-2017	Female	1623	-1.0 (-2.2 to 0.1)
Europe	Spain	2003-2017	Male	254	0.4 (-3.1 to 4.1)
Europe	Spain	2003-2017	Female	226	-1.8 (-4.4 to 0.8)

Asia	Thailand	2003-2017	Male	164	0.9 (-2.7 to 4.7)
Asia	Thailand	2003-2017	Female	182	0.8 (-3.3 to 5.0)
Asia	Turkey	2003-2017	Male	234	-1.6 (-4.4 to 1.2)
Asia	Turkey	2003-2017	Female	214	2.2 (-0.6 to 5.1)
Europe	UK	2003-2017	Male	1628	0.4 (-0.9 to 1.6)
Europe	UK	2003-2017	Female	1540	-0.2 (-1.7 to 1.3)
North America	USA Black	2003-2017	Male	111	-2.1 (-7.6 to 3.7)
North America	USA Black	2003-2017	Female	122	3.5 (-1.4 to 8.8)
North America	USA White	2003-2017	Male	616	0.3 (-1.4 to 2.0)
North America	USA White	2003-2017	Female	661	0.3 (-1.3 to 2.0)

Note: Case counts represent the cumulative number of cases among AYAs aged 15-39 years during the common analytical period from 2003 to 2017. The ≥ 100 -case eligibility criterion was applied separately by leukemia subtype and sex.

Table S7 Average annual percentage change (AAPC) of chronic myeloid leukemia (CML) incidence in adolescents and young adults (15-39 years) in the recent 15 years (2003-2017)

Region	Country	Period	Gender	Cases	AAPC (95% CI)
Oceania	Australia	2003-2017	Male	463	-0.8 (-3.7 to 2.3)
Oceania	Australia	2003-2017	Female	288	2.1 (-0.7 to 4.9)
Europe	Austria	2003-2017	Male	124	-1.8 (-8.0 to 4.8)
Europe	Austria	2003-2017	Female	67	NA
Europe	Belarus	2003-2017	Male	125	-7.4 (-14.5 to 0.2)
Europe	Belarus	2003-2017	Female	131	-3.2 (-6.5 to 0.3)
North America	Canada	2003-2017	Male	402	0.1 (-2.0 to 2.2)
North America	Canada	2003-2017	Female	284	3.7 (0.6 to 7.0)
Asia	China	2003-2017	Male	276	-2.5 (-5.3 to 0.3)
Asia	China	2003-2017	Female	170	-0.4 (-4.9 to 4.2)
Europe	Czech Republic	2003-2017	Male	122	0.5 (-5.1 to 6.4)
Europe	Czech Republic	2003-2017	Female	73	NA
Asia	India	2003-2017	Male	452	-0.8 (-3.9 to 2.3)
Asia	India	2003-2017	Female	210	-1.5 (-4.9 to 2.0)
Europe	Israel	2003-2017	Male	173	-2.2 (-7.0 to 2.9)
Europe	Israel	2003-2017	Female	105	2.1 (-4.4 to 9.1)
Asia	Japan	2003-2017	Male	174	4.2 (0.5 to 8.2)
Asia	Japan	2003-2017	Female	92	NA
Europe	Netherlands	2003-2017	Male	238	0.5 (-3.3 to 4.5)
Europe	Netherlands	2003-2017	Female	141	2.0 (-2.9 to 7.3)
Asia	Philippines	2003-2017	Male	112	-5.4 (-12.1 to 1.9)
Asia	Philippines	2003-2017	Female	81	NA
Asia	Republic of Korea	2003-2017	Male	1271	3.8 (2.2 to 5.4)
Asia	Republic of Korea	2003-2017	Female	589	2.3 (0.3 to 4.5)
Europe	Spain	2003-2017	Male	125	-0.3 (-4.5 to 4.2)
Europe	Spain	2003-2017	Female	70	NA
Asia	Turkey	2003-2017	Male	105	3.7 (-1.1 to 8.8)
Asia	Turkey	2003-2017	Female	88	NA
Europe	UK	2003-2017	Male	937	2.3 (0.9 to 3.7)
Europe	UK	2003-2017	Female	604	3.8 (0.8 to 6.9)
North America	USA White	2003-2017	Male	432	3.2 (-0.3 to 6.8)
North America	USA White	2003-2017	Female	269	3.4 (-0.8 to 7.7)

Note: Case counts represent the cumulative number of cases among AYAs aged 15-39 years during the common analytical period from 2003 to 2017. The ≥ 100 -case eligibility criterion was applied separately by leukemia subtype and sex.

Table S8 Average annual percentage change (AAPC) of lymphoblastic leukemia incidence in adolescents and young adults (15-39 years) in the recent 15 years (2003-2017)

Region	Country	Period	Gender	Cases	AAPC (95% CI)
Oceania	Australia	2003-2017	Male	848	1.9 (-0.1 to 3.8)
Oceania	Australia	2003-2017	Female	434	3.0 (0.2 to 5.9)
Europe	Austria	2003-2017	Male	246	-1.6 (-5.4 to 2.2)
Europe	Austria	2003-2017	Female	152	-2.9 (-9.3 to 3.9)
Europe	Belarus	2003-2017	Male	290	-2.1 (-4.8 to 0.7)
Europe	Belarus	2003-2017	Female	144	5.5 (-4.3 to 16.3)
North America	Canada	2003-2017	Male	851	1.6 (0.1 to 3.1)
North America	Canada	2003-2017	Female	482	4.2 (2.4 to 6.0)
Asia	China	2003-2017	Male	524	0.4 (-1.4 to 2.3)
Asia	China	2003-2017	Female	330	0.8 (-2.4 to 4.1)
Latin America and The Carribean	Colombia	2003-2017	Male	254	2.9 (-0.6 to 6.4)
Latin America and The Carribean	Colombia	2003-2017	Female	199	4.2 (0.2 to 8.5)
Latin America and The Carribean	Costa Rica	2003-2017	Male	164	-8.3 (-14.2 to -2.1)
Latin America and The Carribean	Costa Rica	2003-2017	Female	93	NA
Europe	Croatia	2003-2017	Male	101	7.2 (-0.5 to 15.5)
Europe	Croatia	2003-2017	Female	73	NA
Europe	Czech Republic	2003-2017	Male	201	9.6 (-1.4 to 21.9)
Europe	Czech Republic	2003-2017	Female	117	6.5 (-2.9 to 16.7)
Europe	Denmark	2003-2017	Male	173	4.9 (1.8 to 8.7)
Europe	Denmark	2003-2017	Female	81	NA
Latin America and The Carribean	Ecuador	2003-2017	Male	147	0.9 (-2.7 to 4.6)
Latin America and The Carribean	Ecuador	2003-2017	Female	86	NA
Europe	France	2003-2017	Male	112	1.7 (-3.7 to 7.4)
Europe	France	2003-2017	Female	61	NA
Europe	Germany	2003-2017	Male	235	2.1 (-0.3 to 4.5)
Europe	Germany	2003-2017	Female	154	-2.0 (-6.6 to 2.8)
Asia	India	2003-2017	Male	589	2.9 (0.5 to 5.3)
Asia	India	2003-2017	Female	269	2.2 (-0.1 to 4.5)
Europe	Ireland	2003-2017	Male	141	2.5 (-2.2 to 7.4)
Europe	Ireland	2003-2017	Female	69	NA
Europe	Israel	2003-2017	Male	473	-2.4 (-4.8 to -0.1)
Europe	Israel	2003-2017	Female	226	-3.0 (-8.9 to 3.2)
Europe	Italy	2003-2017	Male	121	1.9 (-1.3 to 5.2)
Europe	Italy	2003-2017	Female	52	NA

Asia	Japan	2003-2017	Male	217	-12.3 (-30.3 to 10.2)
Asia	Japan	2003-2017	Female	167	4.9 (-0.5 to 10.6)
Europe	Netherlands	2003-2017	Male	497	2.8 (1.1 to 4.5)
Europe	Netherlands	2003-2017	Female	284	0.6 (-2.7 to 4.0)
Oceania	New Zealand	2003-2017	Male	150	1.1 (-2.8 to 5.2)
Oceania	New Zealand	2003-2017	Female	103	-2.2 (-5.9 to 1.7)
Europe	Norway	2003-2017	Male	178	3.9 (0.6 to 7.2)
Europe	Norway	2003-2017	Female	91	NA
Asia	Philippines	2003-2017	Male	203	0.9 (-3.0 to 4.9)
Asia	Philippines	2003-2017	Female	119	-0.6 (-5.7 to 4.7)
Asia	Republic of Korea	2003-2017	Male	1221	3.6 (1.8 to 5.4)
Asia	Republic of Korea	2003-2017	Female	796	3.1 (1.7 to 4.5)
Europe	Spain	2003-2017	Male	238	0.6 (-4.5 to 3.5)
Europe	Spain	2003-2017	Female	149	-1.1 (-6.3 to 4.5)
Asia	Thailand	2003-2017	Male	114	4.4 (-0.4 to 9.5)
Asia	Thailand	2003-2017	Female	80	NA
Asia	Turkey	2003-2017	Male	229	2.5 (-0.7 to 5.8)
Asia	Turkey	2003-2017	Female	138	0.7 (-4.6 to 6.3)
Europe	UK	2003-2017	Male	1776	1.8 (0.6 to 3.0)
Europe	UK	2003-2017	Female	902	0.8 (-0.4 to 2.1)
North America	USA Black	2003-2017	Male	127	1.6 (-2.0 to 5.2)
North America	USA Black	2003-2017	Female	56	NA
North America	USA White	2003-2017	Male	907	3.1 (0.4 to 5.9)
North America	USA White	2003-2017	Female	509	3.1 (0.3 to 5.9)

Note: Case counts represent the cumulative number of cases among AYAs aged 15-39 years during the common analytical period from 2003 to 2017. The ≥ 100 -case eligibility criterion was applied separately by leukemia subtype and sex.

Table S9 Average annual percentage change (AAPC) of myeloid leukemia incidence in adolescents and young adults (15-39 years) in the recent 15 years (2003-2017)

Region	Country	Period	Gender	Cases	AAPC (95% CI)
Oceania	Australia	2003-2017	Male	1187	-1.9 (-3.7 to -0.1)
Oceania	Australia	2003-2017	Female	986	0.3 (-1.3 to 1.9)
Europe	Austria	2003-2017	Male	410	-1.2 (-3.4 to 1.0)
Europe	Austria	2003-2017	Female	313	-1.5 (-4.8 to 1.9)
Europe	Belarus	2003-2017	Male	359	-1.4 (-3.6 to 0.9)
Europe	Belarus	2003-2017	Female	363	-2.2 (-4.9 to 0.7)
North America	Canada	2003-2017	Male	1087	-0.6 (-2.0 to 0.7)
North America	Canada	2003-2017	Female	985	2.3 (0.8 to 3.7)
Asia	China	2003-2017	Male	1046	-0.7 (-2.1 to 0.6)
Asia	China	2003-2017	Female	809	-1.9 (-4.1 to 0.4)
Latin America and The Carribean	Colombia	2003-2017	Male	186	4.0 (-1.7 to 10.1)
Latin America and The Carribean	Colombia	2003-2017	Female	160	1.3 (-4.0 to 6.9)
Latin America and The Carribean	Costa Rica	2003-2017	Male	105	-9.0 (-12.7 to -5.2)
Latin America and The Carribean	Costa Rica	2003-2017	Female	74	NA
Europe	Croatia	2003-2017	Male	148	1.5 (-1.9 to 5.0)
Europe	Croatia	2003-2017	Female	124	3.9 (-1.3 to 9.4)
Europe	Czech Republic	2003-2017	Male	329	-0.1 (-3.6 to 3.5)
Europe	Czech Republic	2003-2017	Female	253	-1.1 (-4.0 to 1.7)
Europe	Denmark	2003-2017	Male	217	-0.7 (-3.5 to 2.2)
Europe	Denmark	2003-2017	Female	188	1.3 (-1.7 to 4.4)
Latin America and The Carribean	Ecuador	2003-2017	Male	107	6.7 (0.6 to 13.1)
Latin America and The Carribean	Ecuador	2003-2017	Female	98	NA
Europe	France	2003-2017	Male	146	0.5 (-4.2 to 5.4)
Europe	France	2003-2017	Female	128	0.9 (-3.2 to 5.1)
Europe	Germany	2003-2017	Male	281	3.2 (-1.4 to 8.0)
Europe	Germany	2003-2017	Female	236	-1.7 (-4.4 to 1.1)
Asia	India	2003-2017	Male	996	0.9 (-0.9 to 2.7)
Asia	India	2003-2017	Female	642	-0.9 (-2.8 to 1.1)
Europe	Ireland	2003-2017	Male	150	0.0 (-3.8 to 3.8)
Europe	Ireland	2003-2017	Female	173	-1.3 (-7.2 to 5.0)
Europe	Israel	2003-2017	Male	570	-1.2 (-3.7 to 1.4)
Europe	Israel	2003-2017	Female	475	-1.1 (-2.6 to 0.4)
Europe	Italy	2003-2017	Male	140	1.1 (-3.4 to 5.8)
Europe	Italy	2003-2017	Female	120	1.0 (-7.4 to 10.1)
Asia	Japan	2003-2017	Male	479	4.2 (2.6 to 5.9)

Asia	Japan	2003-2017	Female	356	2.2 (-0.4 to 4.8)
Europe	Lithuania	2003-2017	Male	132	-0.6 (-4.5 to 3.5)
Europe	Lithuania	2003-2017	Female	107	-2.2 (-9.3 to 5.5)
Europe	Netherlands	2003-2017	Male	615	-0.3 (-2.3 to 1.7)
Europe	Netherlands	2003-2017	Female	558	-0.6 (-3.1 to 1.9)
Oceania	New Zealand	2003-2017	Male	240	0.9 (-2.8 to 4.6)
Oceania	New Zealand	2003-2017	Female	194	-2.3 (-6.1 to 1.8)
Europe	Norway	2003-2017	Male	191	4.0 (1.1 to 7.1)
Europe	Norway	2003-2017	Female	175	2.1 (-3.7 to 8.1)
Asia	Philippines	2003-2017	Male	342	-3.9 (-6.4 to -1.3)
Asia	Philippines	2003-2017	Female	317	-1.3 (-3.1 to 0.7)
Latin America and The Carribean	Puerto Rico	2003-2017	Male	160	5.4 (0.2 to 10.9)
Latin America and The Carribean	Puerto Rico	2003-2017	Female	155	5.3 (0.4 to 10.4)
Asia	Republic of Korea	2003-2017	Male	3388	2.2 (1.4 to 3.1)
Asia	Republic of Korea	2003-2017	Female	2257	-0.2 (-1.3 to 1.0)
Europe	Spain	2003-2017	Male	390	1.0 (-1.1 to 3.1)
Europe	Spain	2003-2017	Female	302	-2.2 (-4.5 to 0.1)
Asia	Thailand	2003-2017	Male	255	1.5 (-2.5 to 5.7)
Asia	Thailand	2003-2017	Female	252	0.4 (-3.5 to 4.4)
Asia	Turkey	2003-2017	Male	346	-0.4 (-2.5 to 1.8)
Asia	Turkey	2003-2017	Female	309	3.0 (0.1 to 5.9)
Europe	UK	2003-2017	Male	2620	1.1 (0.3 to 2.0)
Europe	UK	2003-2017	Female	2188	0.8 (-0.8 to 2.5)
North America	USA Black	2003-2017	Male	199	-1.1 (-4.5 to 2.3)
North America	USA Black	2003-2017	Female	193	2.2 (-0.6 to 5.1)
North America	USA White	2003-2017	Male	1094	1.4 (0.1 to 2.7)
North America	USA White	2003-2017	Female	964	1.2 (-0.1 to 2.5)

Note: Case counts represent the cumulative number of cases among AYAs aged 15-39 years during the common analytical period from 2003 to 2017. The ≥ 100 -case eligibility criterion was applied separately by leukemia subtype and sex.

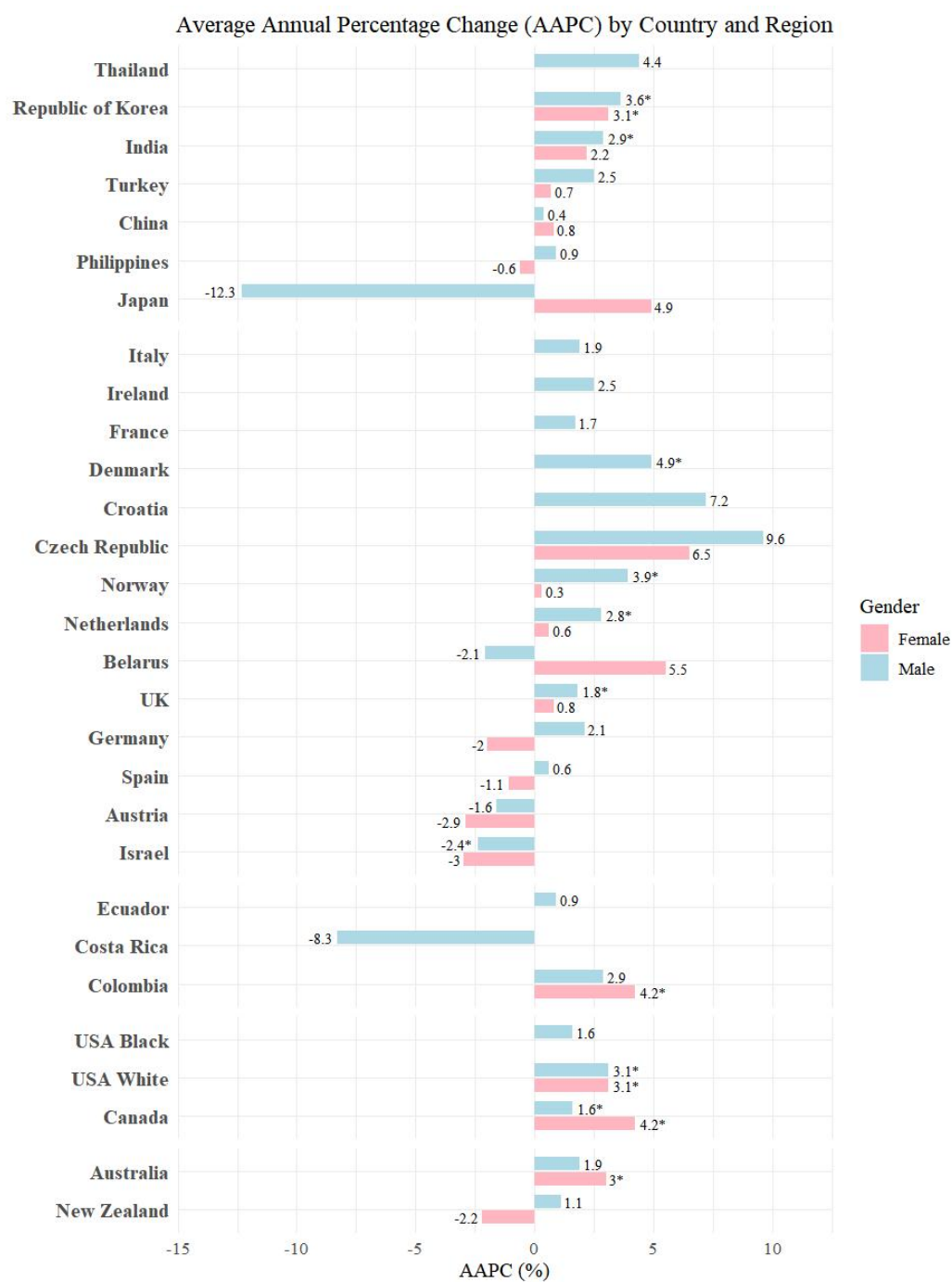


Figure S1. Average annual percentage change (AAPC) of lymphoblastic leukemia incidence in adolescents and young adults (15-39 years) in the recent 15 years (2003-2017). * Statistically significant.

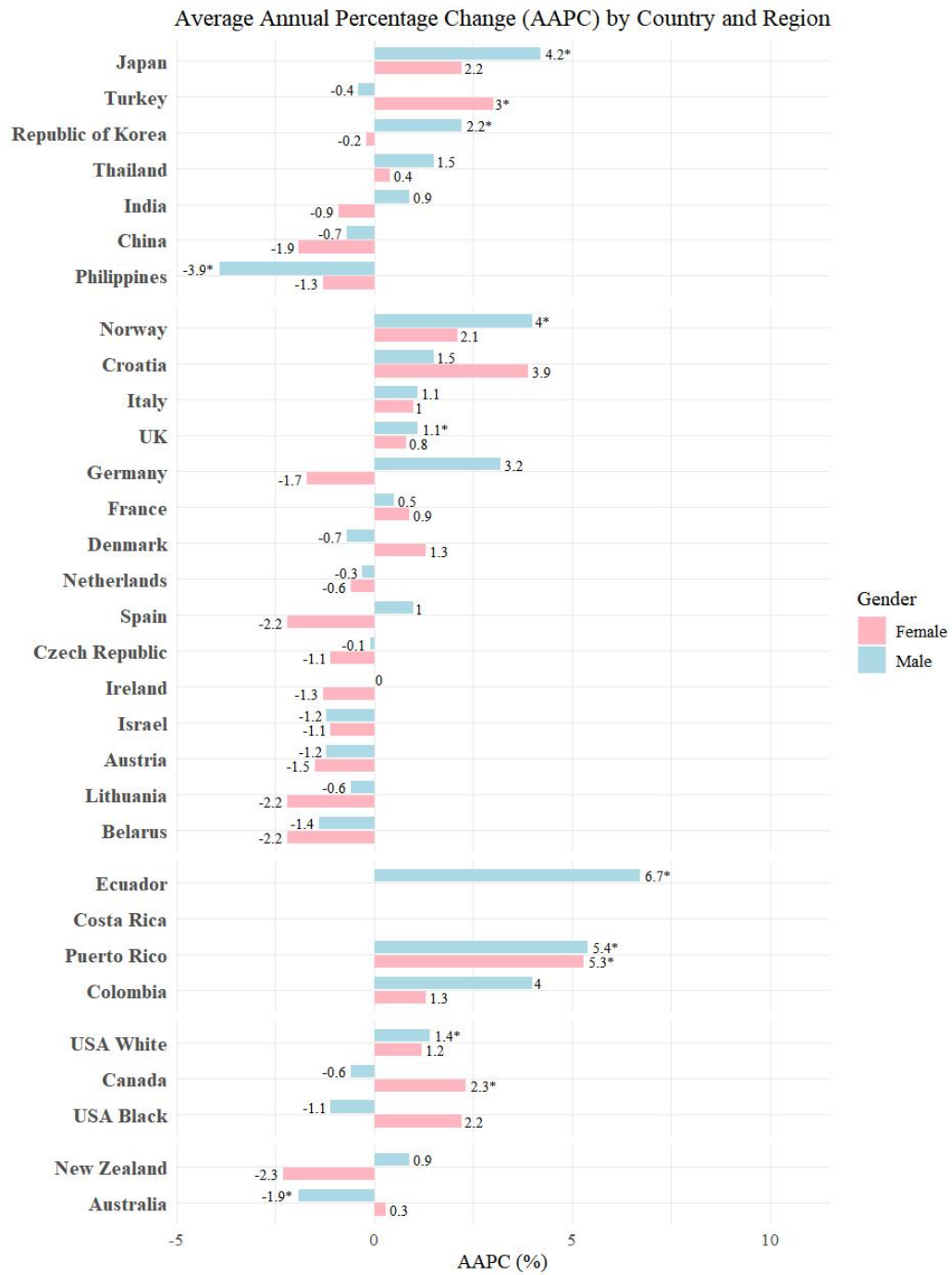


Figure S2. Average annual percentage change (AAPC) of myeloid leukemia incidence in adolescents and young adults (15-39 years) in the recent 15 years (2003-2017). * Statistically significant.