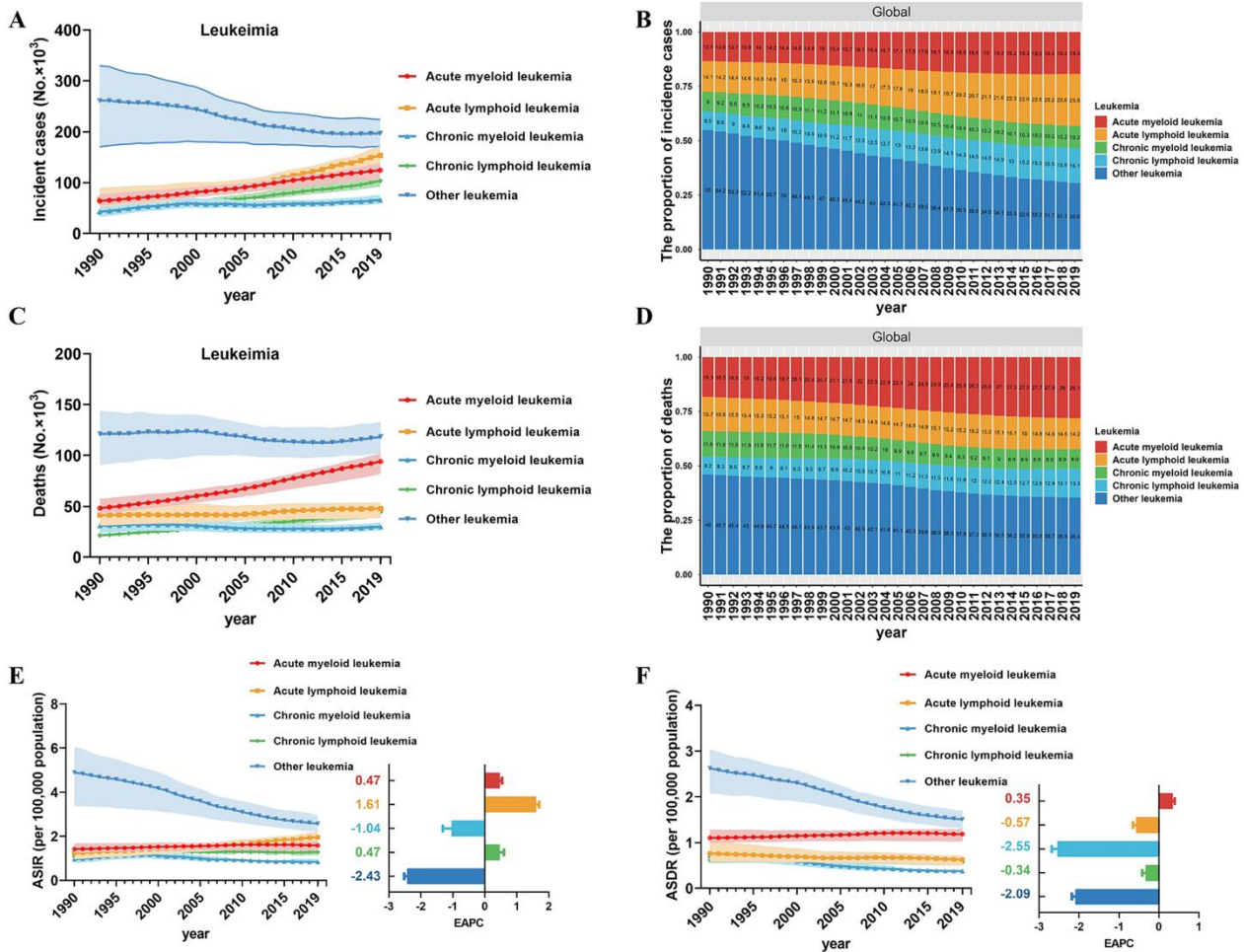


# Supplementary material

## Global burden of hematologic malignancies and evolution patterns over the past 30 years

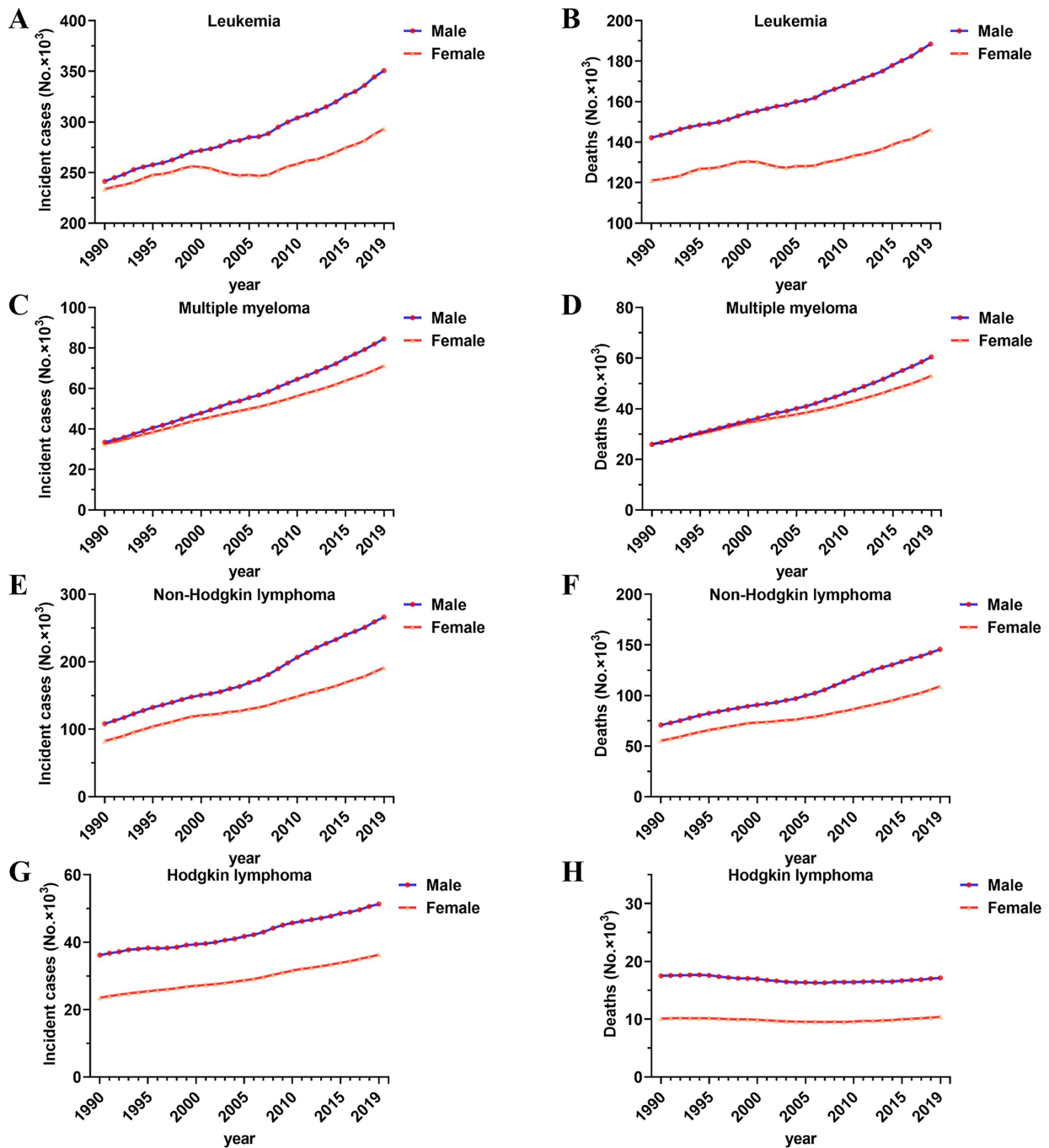
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**Supplementary Figure S1.** Global trends in incidence and death for leukemia from 1990 to 2019 by five causes.



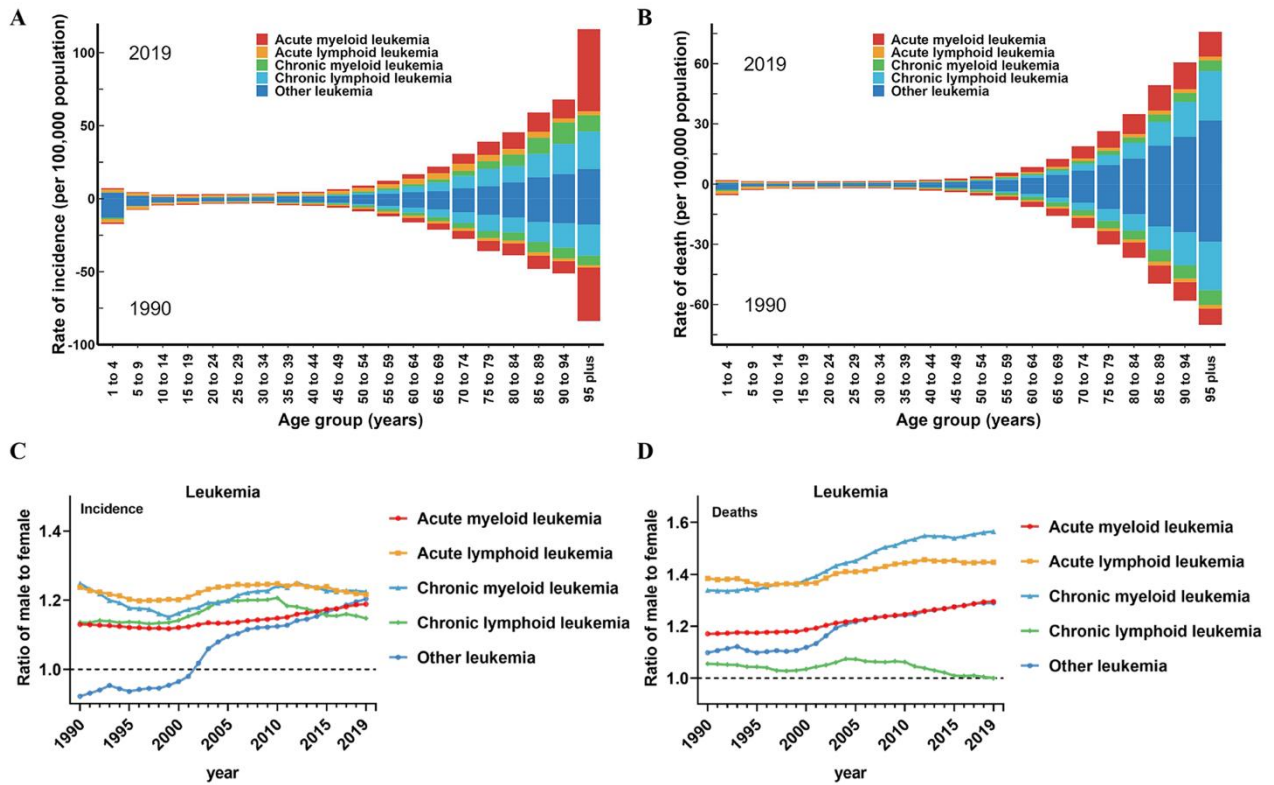
(A) The new cases of leukemia from 1990 to 2019. (B) The proportion of new cases of leukemia from 1990 to 2019. (C) The number of deaths due to leukemia from 1990 to 2019. (D) The proportion of deaths of leukemia from 1990 to 2019. (E) ASIR and EAPCs in leukemia over the last 30 years. (F) ASDR and EAPCs in leukemia over the last 30 years. ASIR, age-standardized incidence rate; ASDR, age-standardized death rate; EAPC, estimated annual percentage change.

**Supplementary Figure S2.** Global incidence and death of hematological malignancies by sex from 1990 to 2019.



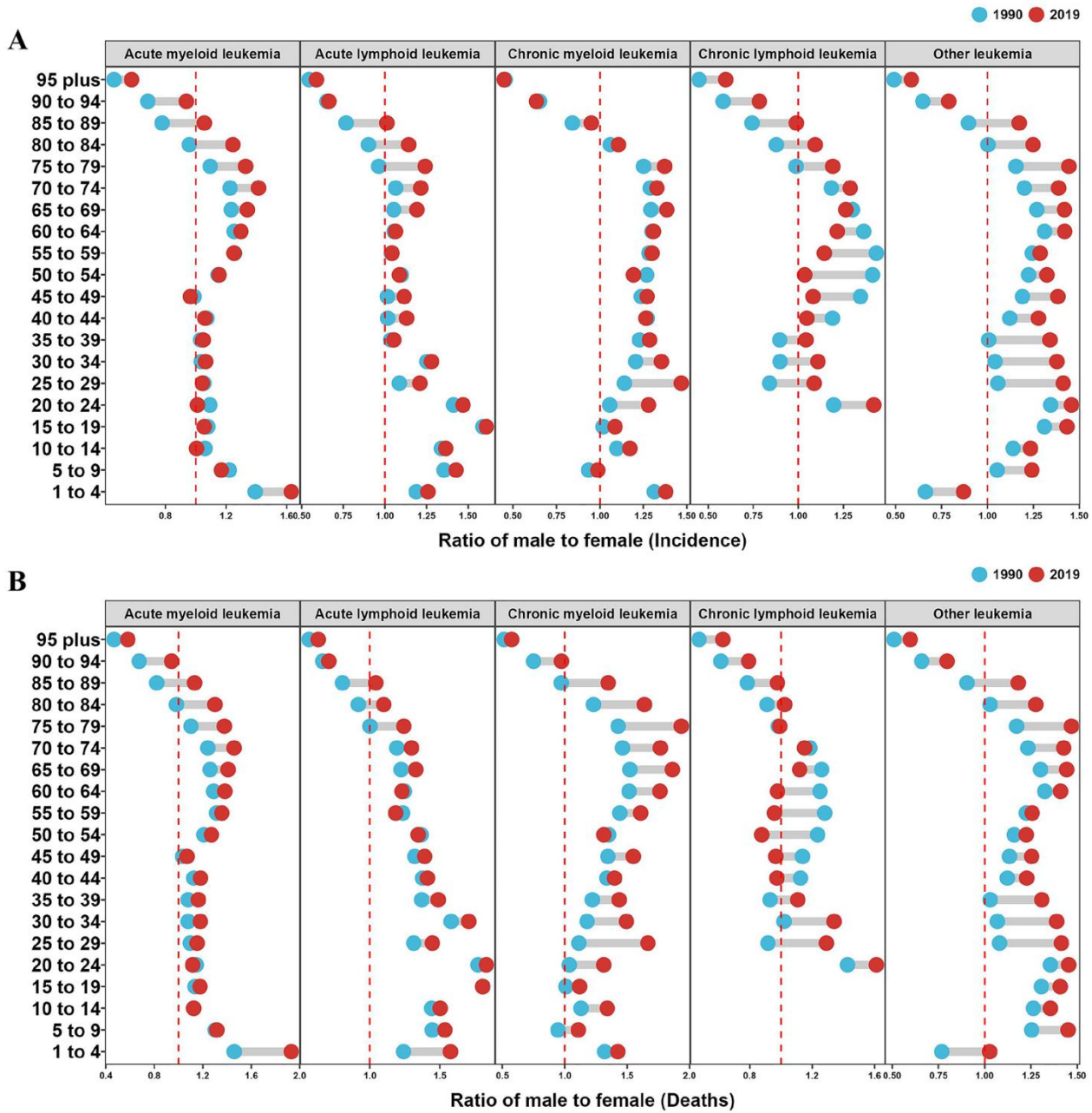
(A-B) Sex differences in leukemia. (C-D) Sex differences in multiple myeloma. (E-F) Sex differences in non-Hodgkin lymphoma. (G-H) Sex differences in Hodgkin lymphoma.

**Supplementary Figure S3. Global incidence and death of leukemia by age and sex.**



(A) Global leukemia incident cases by age for both sexes combined in 1990 and 2019. (B) Global leukemia deaths by age for both sexes combined in 1990 and 2019. For each group, the below column shows case data in 1990 and the above column shows data in 2019. (C) The sex ratio of leukemia incident cases from 1990 to 2019 by five causes. (D) The sex ratio of leukemia deaths from 1990 to 2019 by five causes.

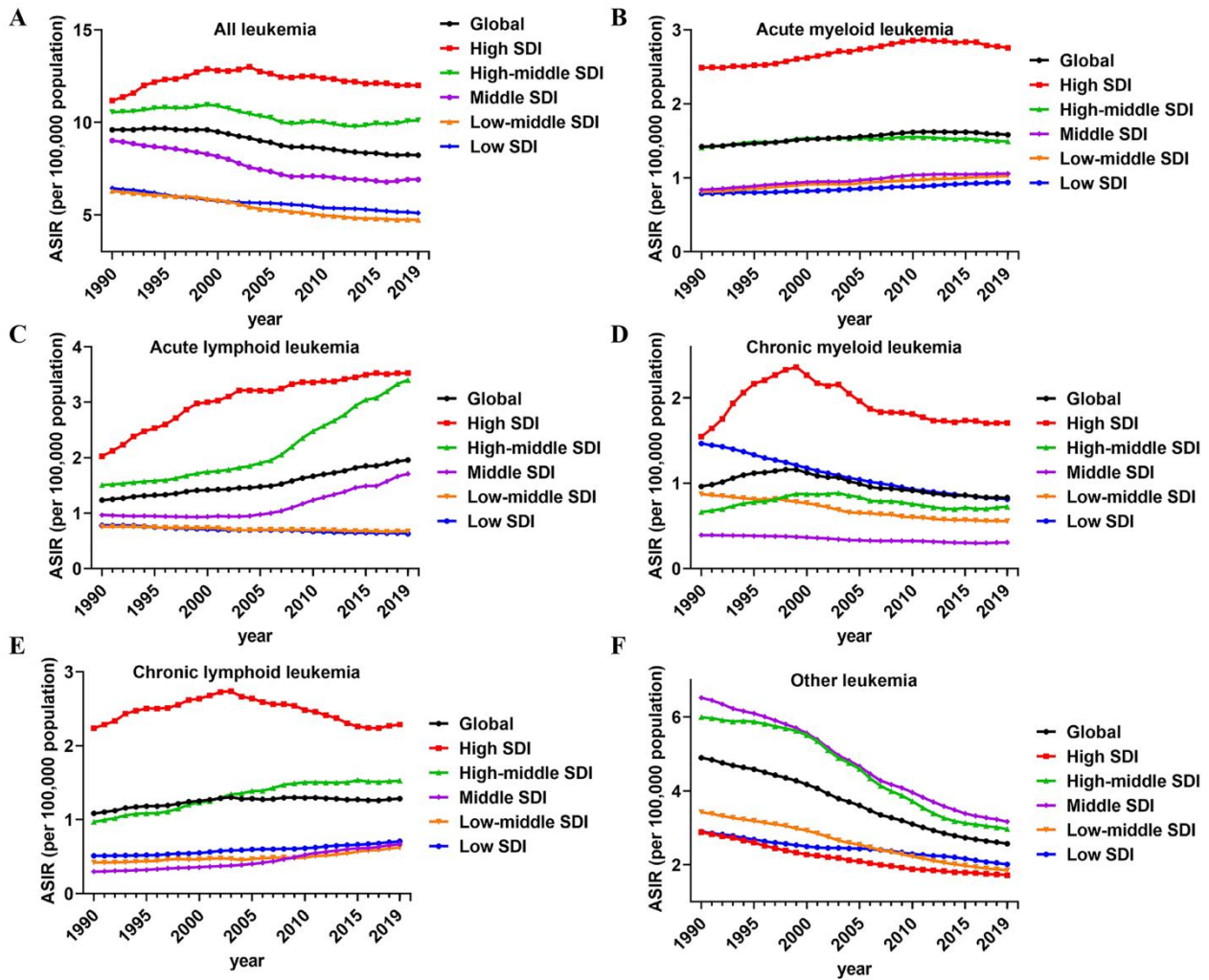
Supplementary Figure S4. Sex differences in leukemia by age and five causes.



(A) The ratio of male to female in global leukemia incident cases by age in 1990 and 2019.

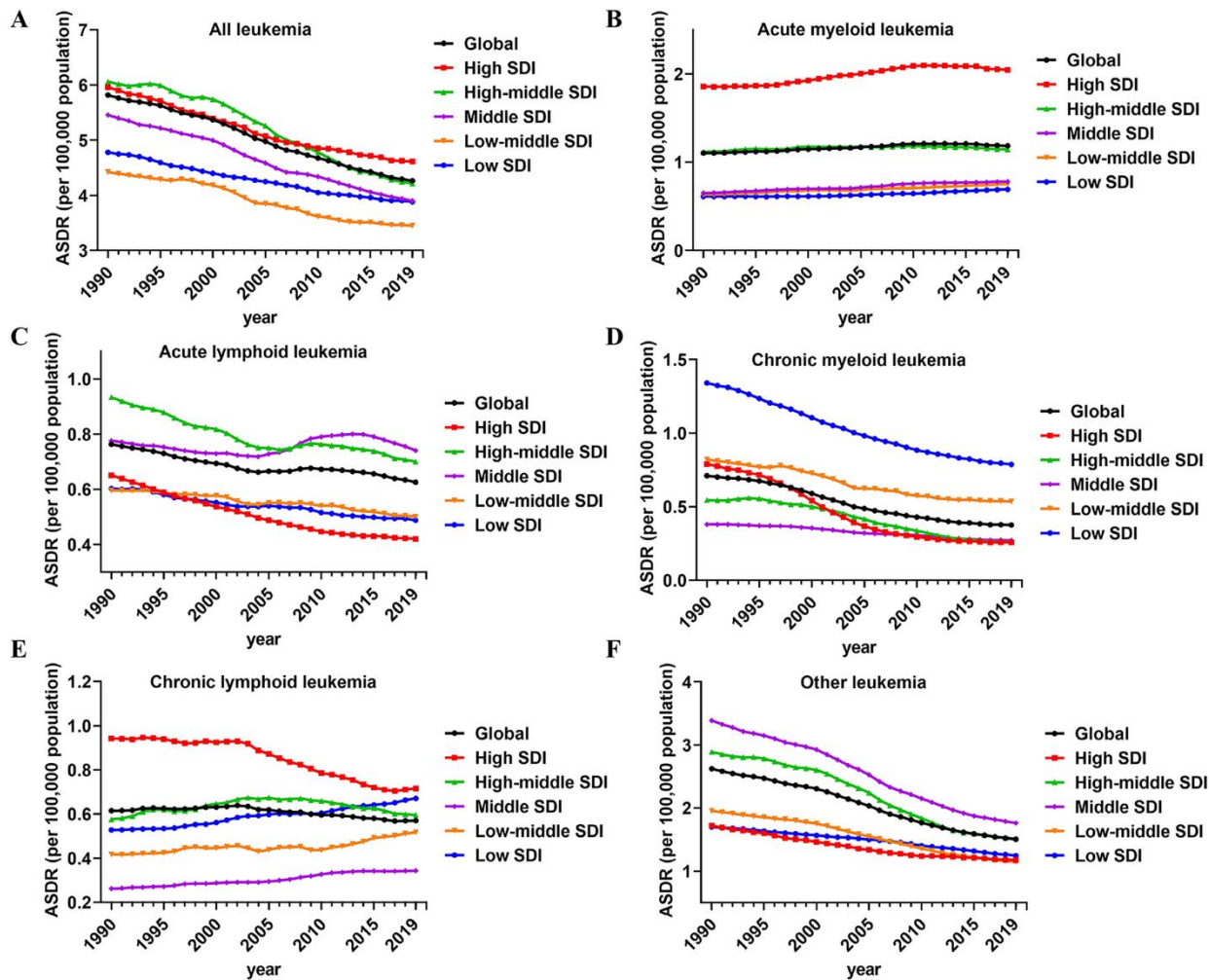
(B) The ratio of male to female in global leukemia deaths by age in 1990 and 2019.

**Supplementary Figure S5.** The ASIR of leukemia in SDI regions from 1990 to 2019.



(A) All leukemia. (B) Acute myeloid leukemia. (C) Acute lymphoid leukemia. (D) Chronic myeloid leukemia. (E) Chronic lymphoid leukemia. (F) Other leukemia. ASIR, age-standardized incidence rate; SDI, Socio-demographic Index.

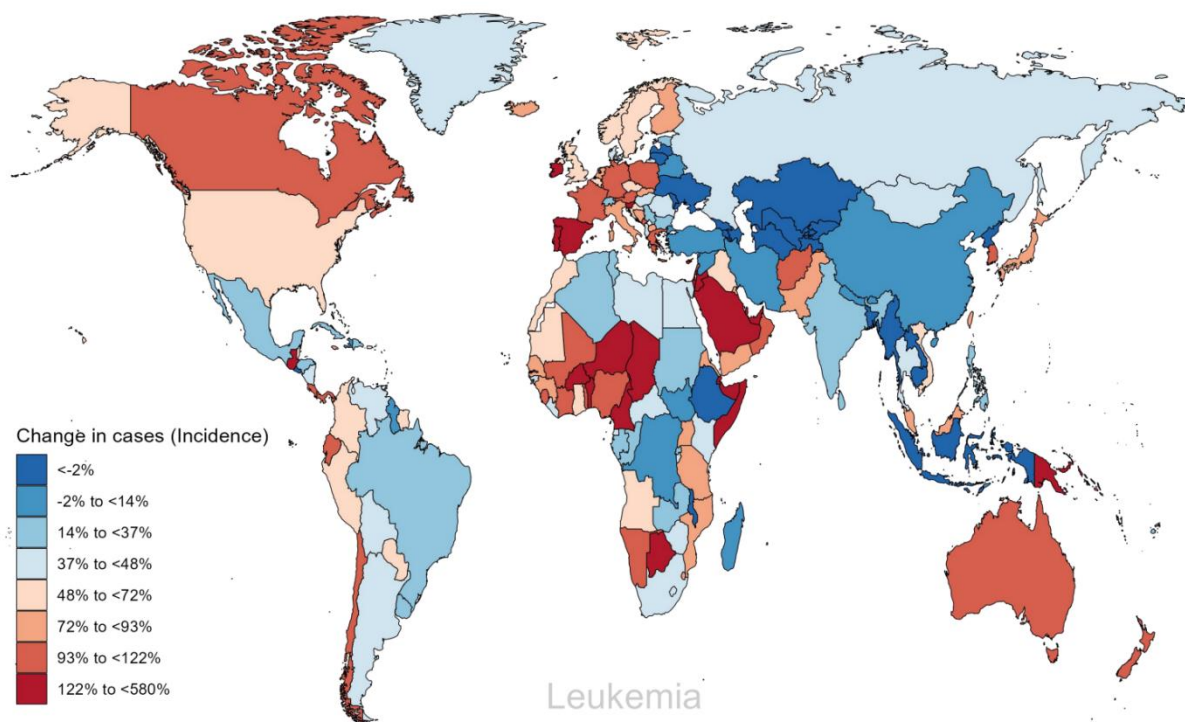
**Supplementary Figure S6.** The ASDR of leukemia in SDI regions from 1990 to 2019.



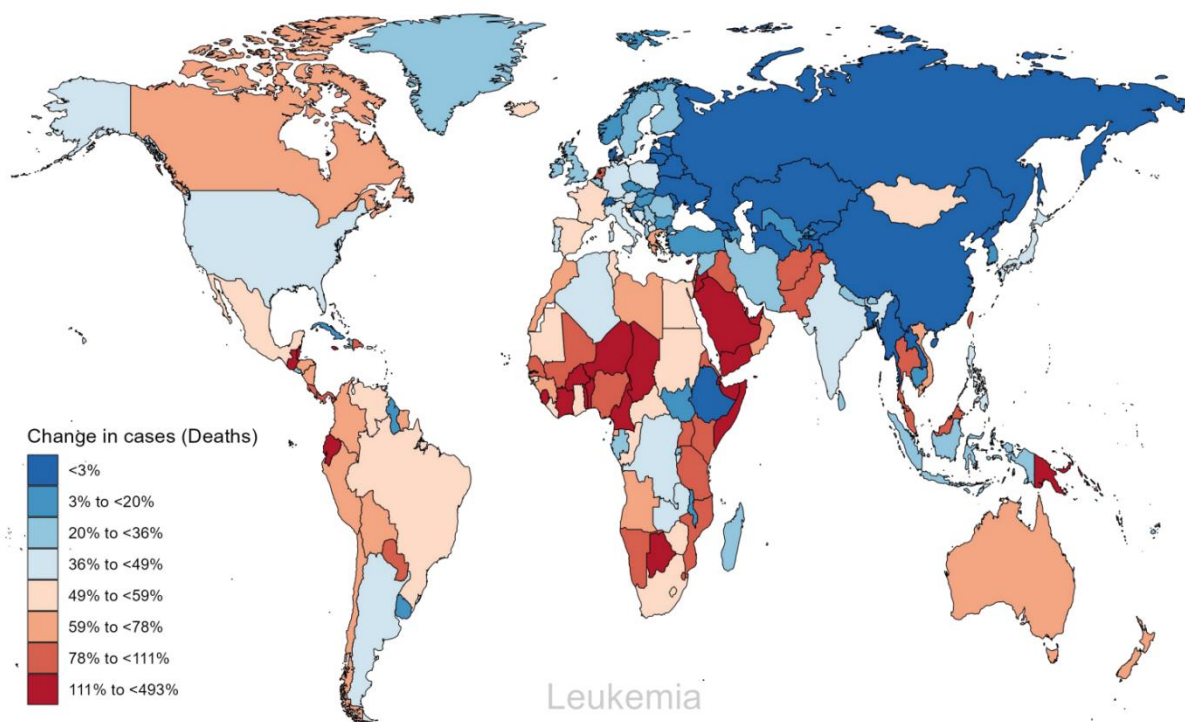
(A) All leukemia. (B) Acute myeloid leukemia. (C) Acute lymphoid leukemia. (D) Chronic myeloid leukemia. (E) Chronic lymphoid leukemia. (F) Other leukemia. ASDR, age-standardized death rate; SDI, Socio-demographic Index.

Supplementary Figure S7. Changes in the number of leukemia by countries and territories.

A



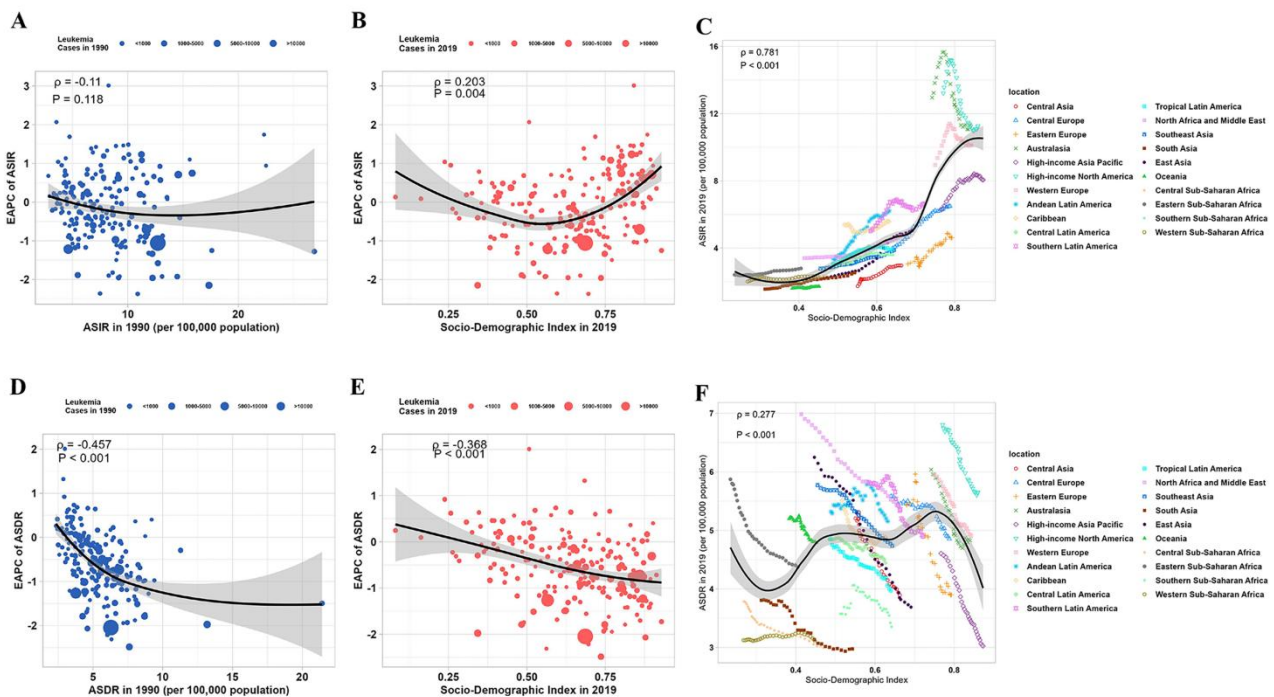
B



(A) The percentage change in incident cases of leukemia between 1990 and 2019. (B) The percentage change in deaths of leukemia between 1990 and 2019.

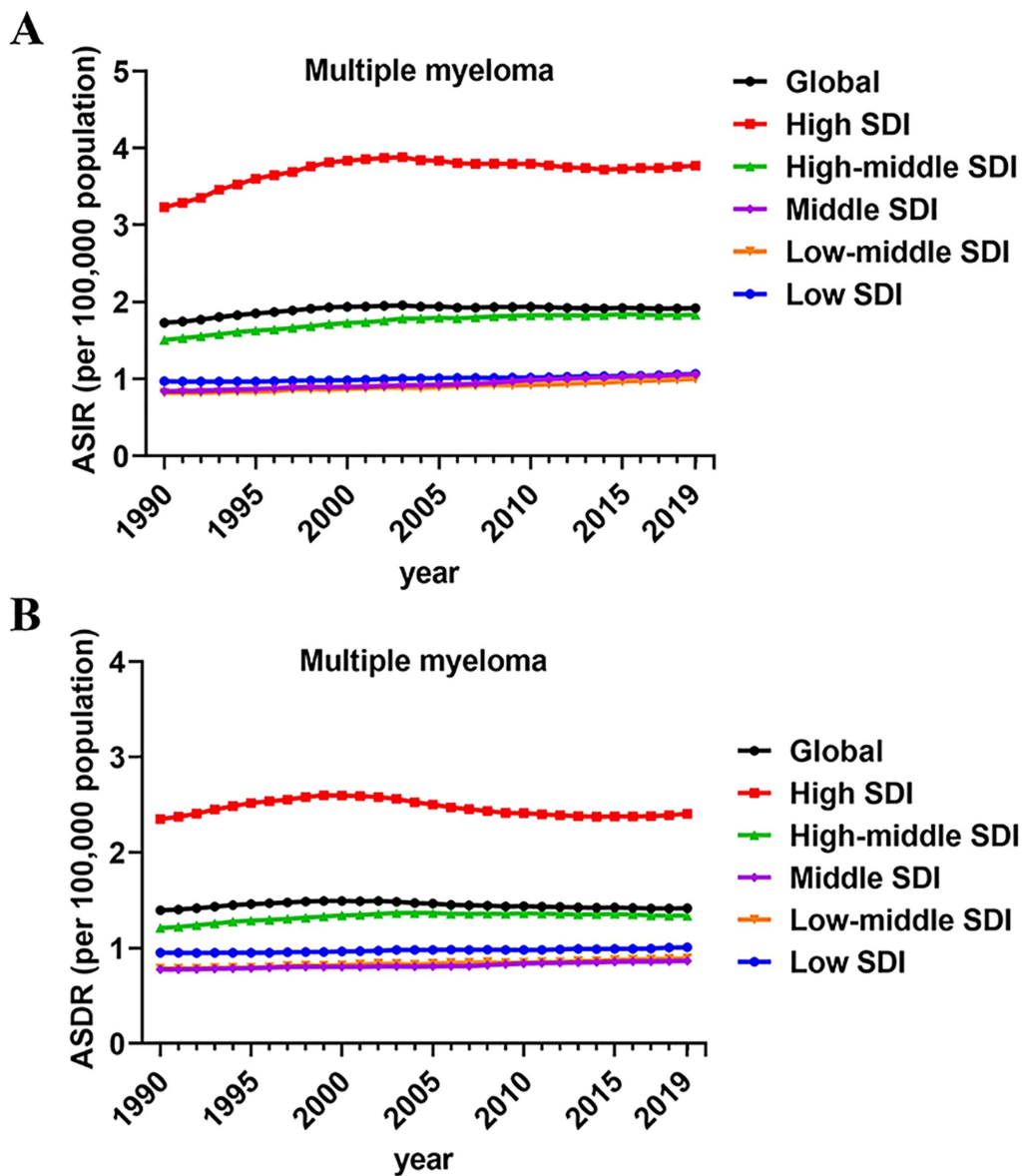


**Supplementary Figure S8.** The correlation between EAPC and age-standardized rate in leukemia.



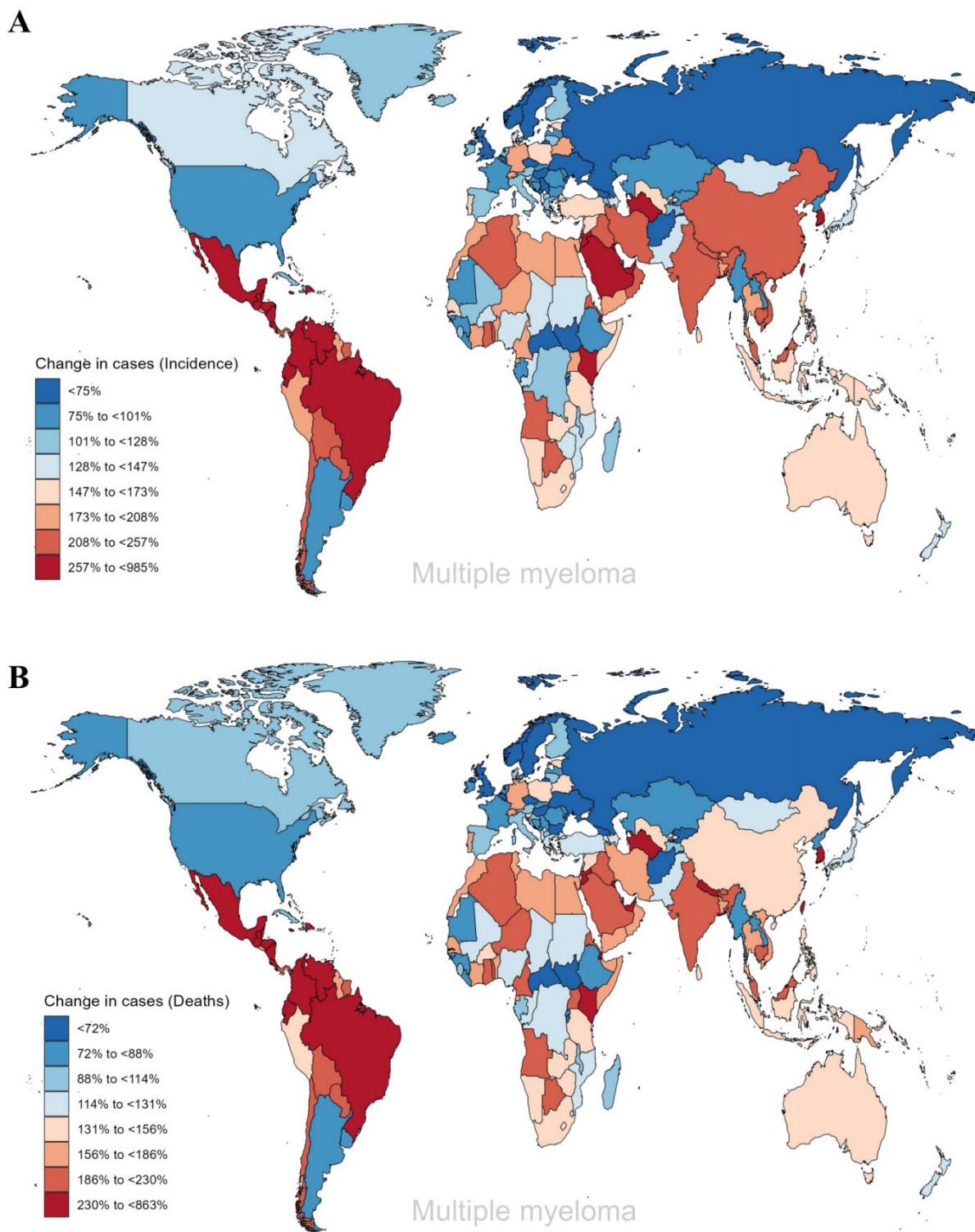
(A) The correlation between EAPC and ASIR in 1990. (B) The correlation between EAPC of ASIR and SDI in 2019. (C) ASIR of leukemia by region from 1990 to 2019 based on SDI levels. (D) The correlation between EAPC and ASDR in 1990. (E) The correlation between EAPC of ASDR and SDI in 2019. (F) ASDR of leukemia by region from 1990 to 2019 based on SDI levels. ASIR, age-standardized incidence rate; ASDR, age-standardized death rate; EAPC, estimated annual percentage change. SDI, Socio-demographic Index.

**Supplementary Figure S9.** The ASIR and ASDR of multiple myeloma in SDI regions from 1990 to 2019.



(A) The ASIR of multiple myeloma in SDI regions. (B) The ASDR of multiple myeloma in SDI regions. ASDR, age-standardized death rate; SDI, Socio-demographic Index.

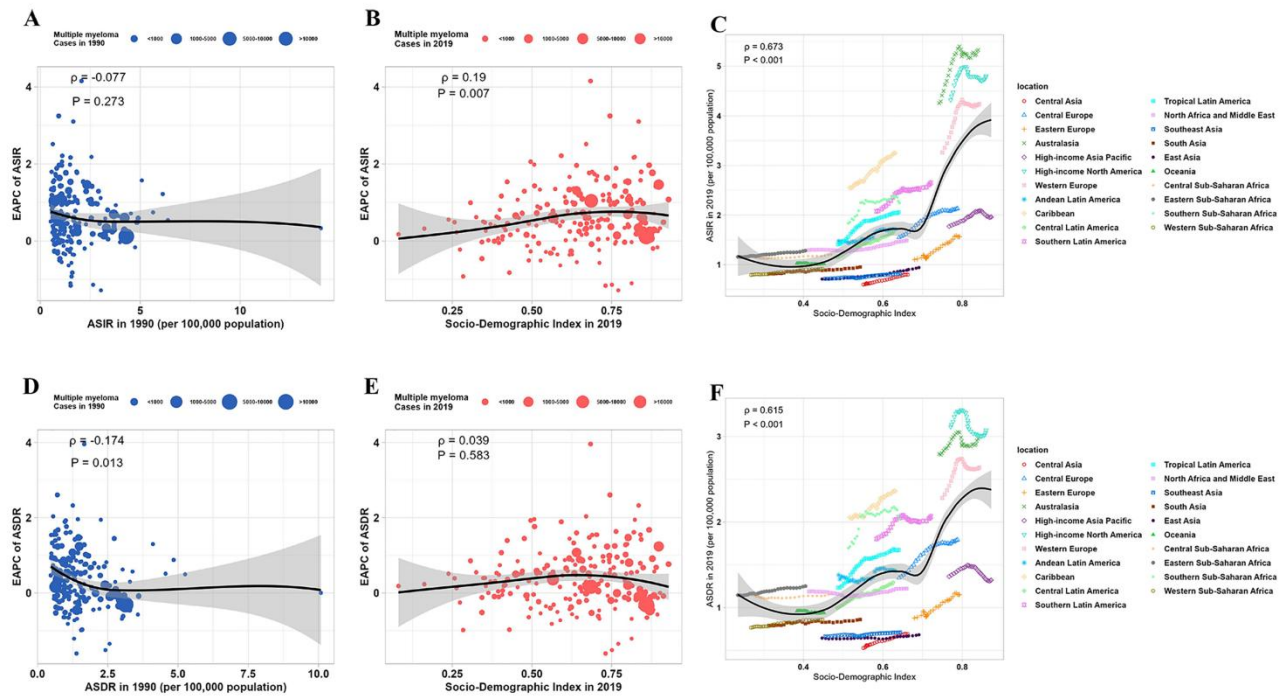
**Supplementary Figure S10.** Changes in the number of multiple myeloma by countries and territories.



(A) The percentage change in incident cases of multiple myeloma between 1990 and 2019.

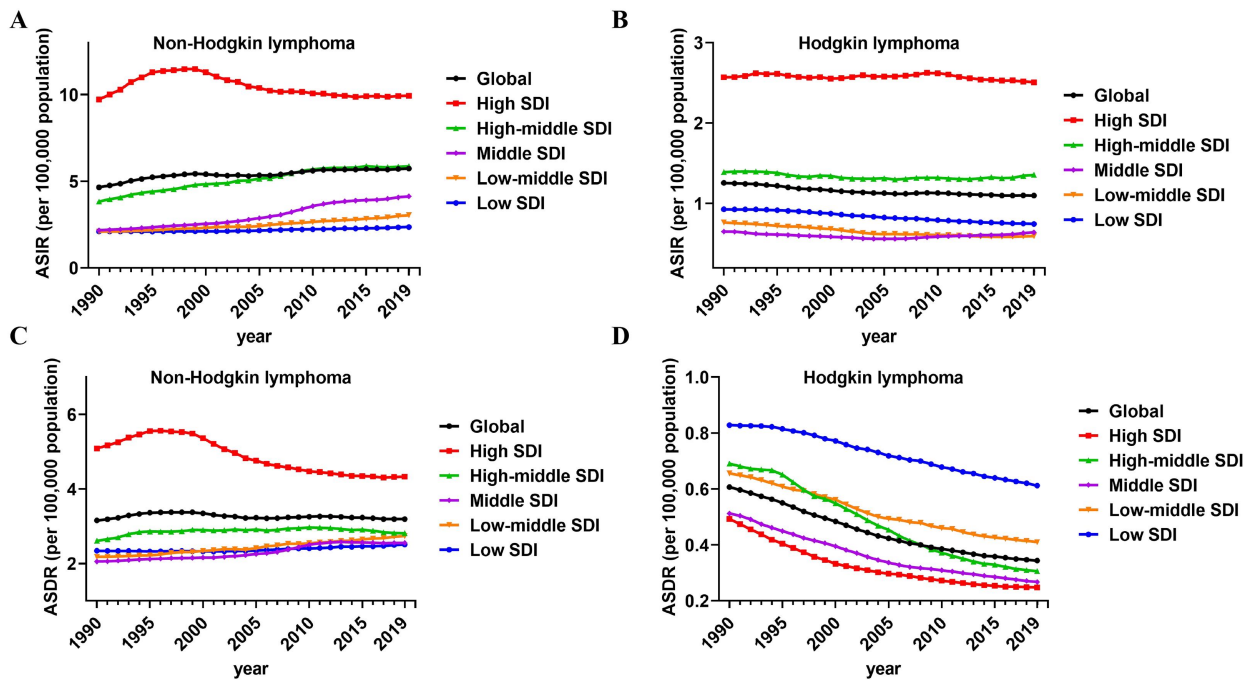
(B) The percentage change in deaths of multiple myeloma between 1990 and 2019.

**Supplementary Figure S11.** The correlation between EAPC and age-standardized rate in multiple myeloma.



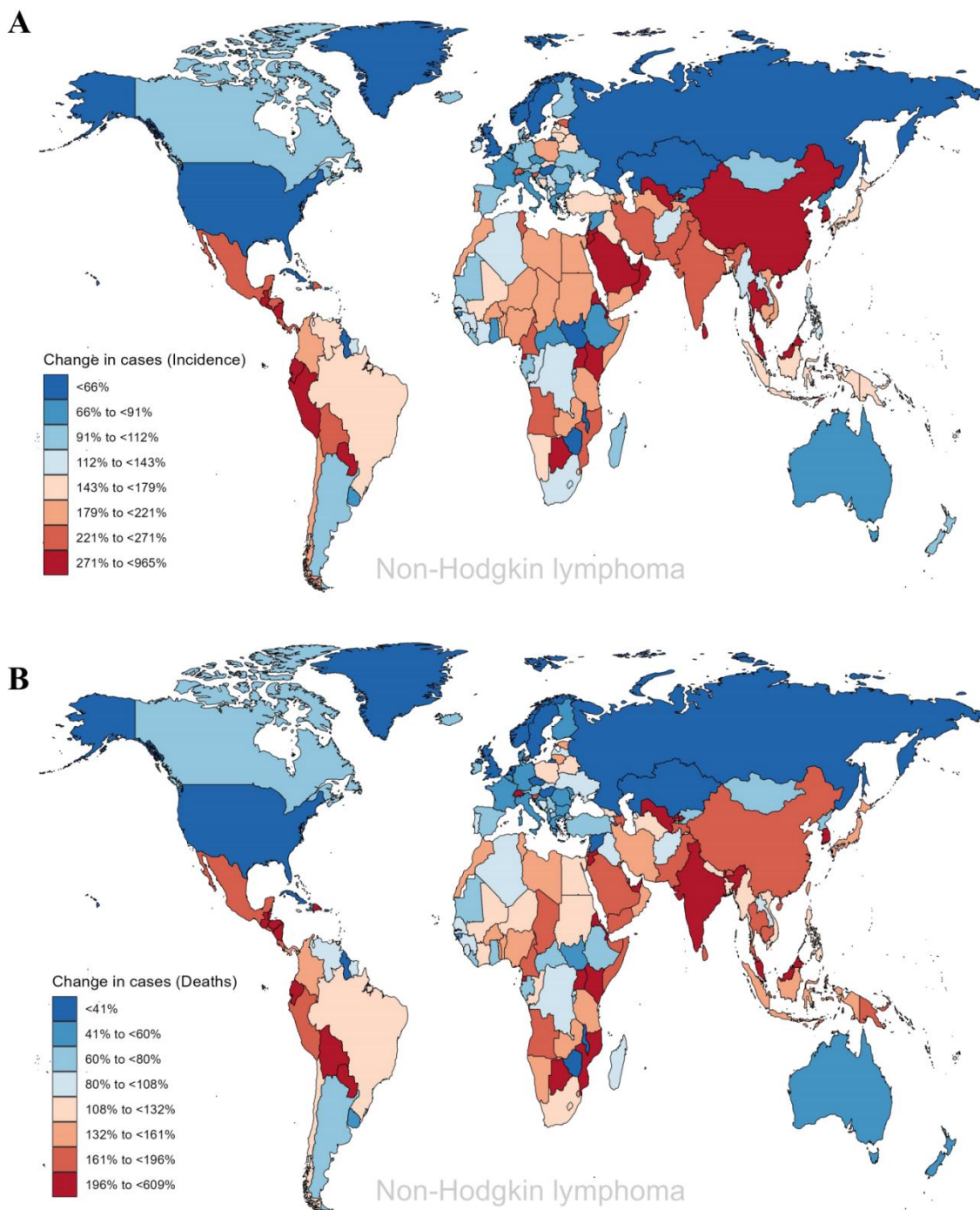
(A) The correlation between EAPC and ASIR in 1990. (B) The correlation between EAPC of ASIR and SDI in 2019. (C) ASIR of multiple myeloma by region from 1990 to 2019 based on SDI levels. (D) The correlation between EAPC and ASDR in 1990. (E) The correlation between EAPC of ASDR and SDI in 2019. (F) ASDR of multiple myeloma by region from 1990 to 2019 based on SDI levels. ASIR, age-standardized incidence rate; ASDR, age-standardized death rate; EAPC, estimated annual percentage change. SDI, Socio-demographic Index.

**Supplementary Figure S12.** The ASIR and ASDR of lymphoma in SDI regions from 1990 to 2019.



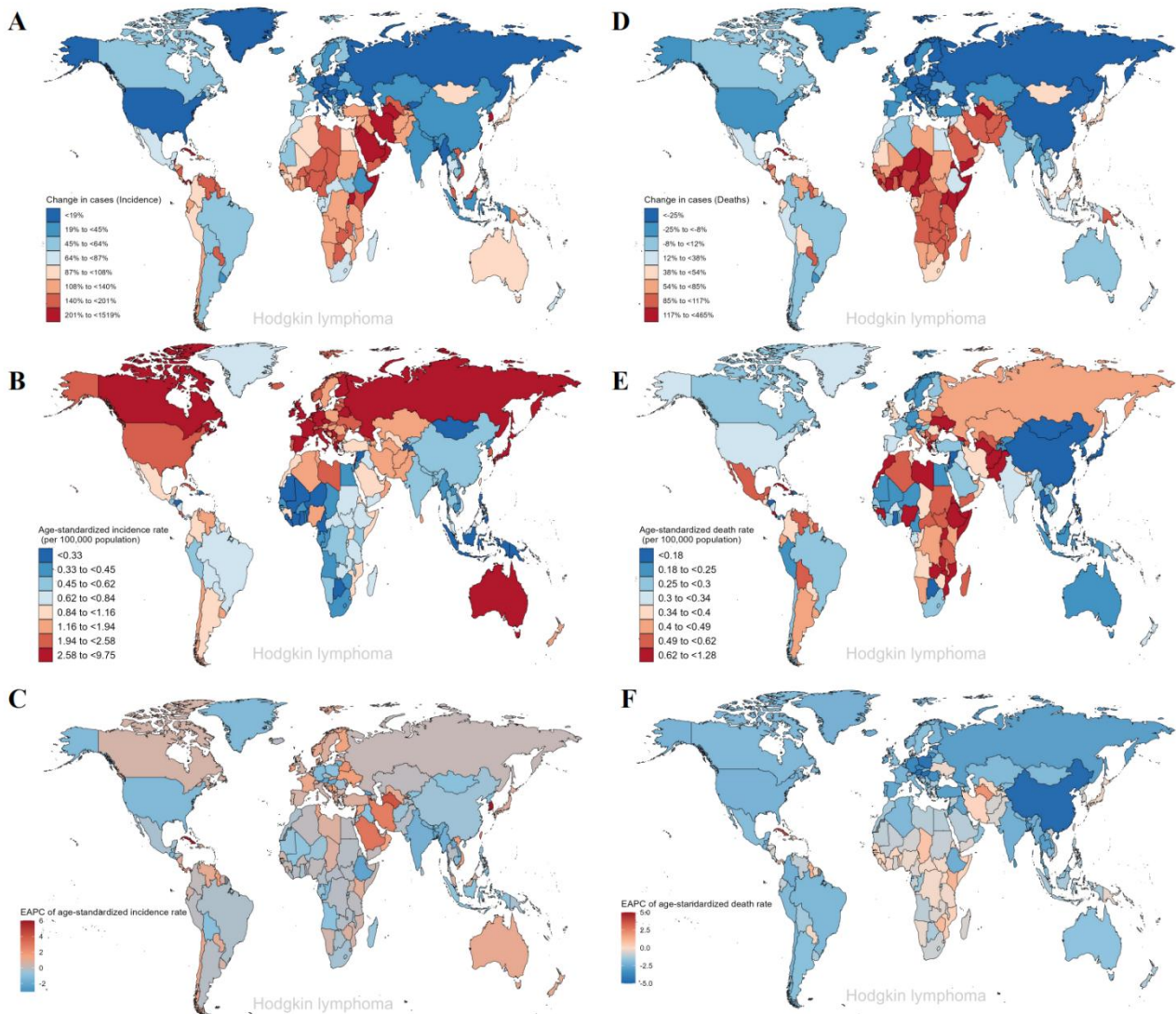
(A) The ASIR of non-Hodgkin lymphoma in SDI regions. (B) The ASIR of Hodgkin lymphoma in SDI regions. (C) The ASDR of non-Hodgkin lymphoma in SDI regions. (D) The ASDR of Hodgkin lymphoma in SDI regions. ASDR, age-standardized death rate; SDI, Socio-demographic Index.

**Supplementary Figure S13.** Changes in the number of non-Hodgkin lymphoma by countries and territories.



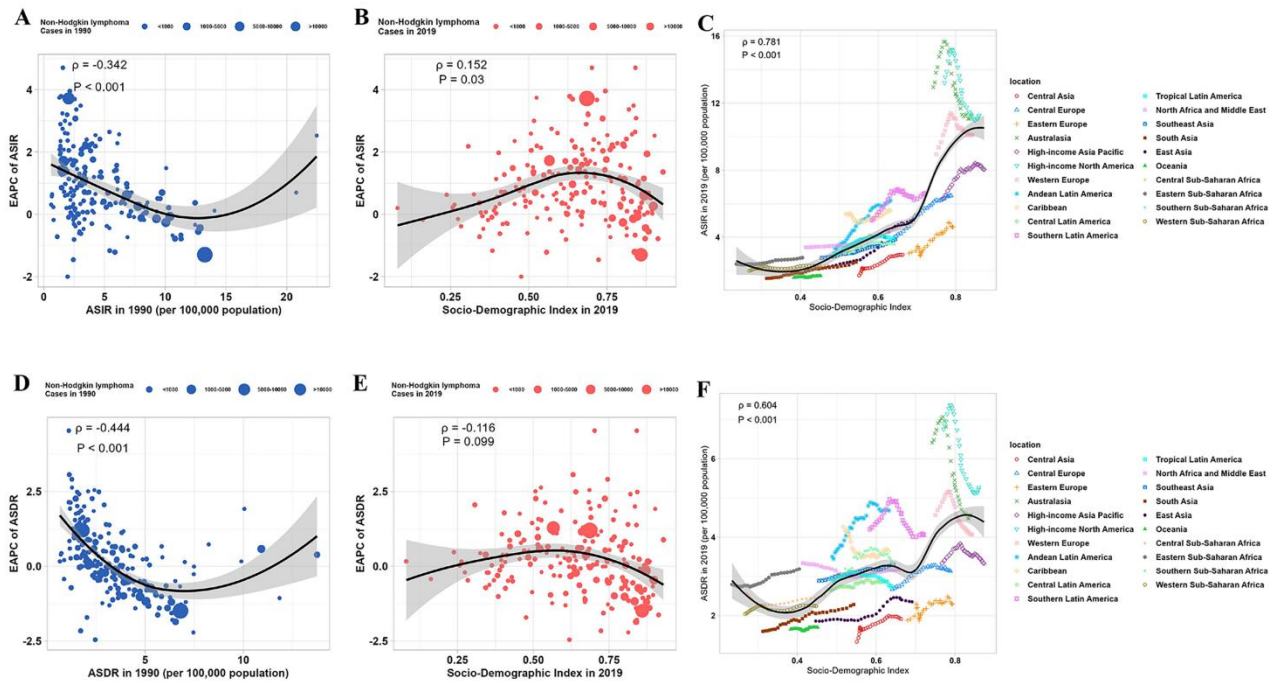
(A) The percentage change in incident cases of non-Hodgkin lymphoma between 1990 and 2019. (B) The percentage change in deaths of non-Hodgkin lymphoma between 1990 and 2019.

**Supplementary Figure S14.** The global trends of Hodgkin lymphoma by countries and territories.



(A) The percentage change in incident cases of Hodgkin lymphoma between 1990 and 2019. (B) The ASIR of Hodgkin lymphoma in 2019. (C) The EAPC in ASIR of Hodgkin lymphoma from 1990 to 2019. (D) The percentage change in deaths of Hodgkin lymphoma between 1990 and 2019. (E) The ASDR of Hodgkin lymphoma in 2019. (F) The EAPC in ASDR of Hodgkin lymphoma from 1990 to 2019. ASIR, age-standardized incidence rate; ASDR, age-standardized death rate; EAPC, estimated annual percentage change.

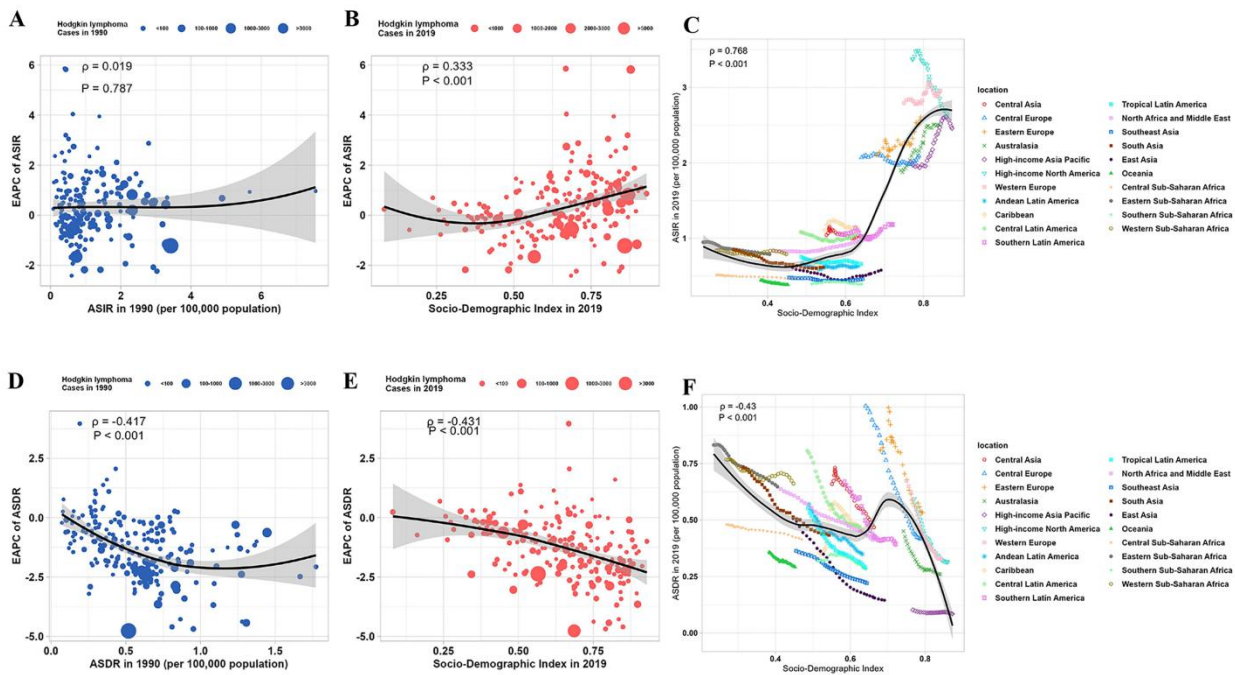
**Supplementary Figure S15.** The correlation between EAPC and age-standardized rate in non-Hodgkin lymphoma.



(A) The correlation between EAPC and ASIR in 1990. (B) The correlation between EAPC of ASIR and SDI in 2019. (C) ASIR of non-Hodgkin lymphoma by region from 1990 to 2019 based on SDI levels. (D) The correlation between EAPC and ASDR in 1990. (E) The correlation between EAPC of ASDR and SDI in 2019. (F) ASDR of non-Hodgkin lymphoma by region from 1990 to 2019 based on SDI levels. ASIR, age-standardized incidence rate; ASDR, age-standardized death rate; EAPC, estimated annual percentage change. SDI, Socio-demographic Index.

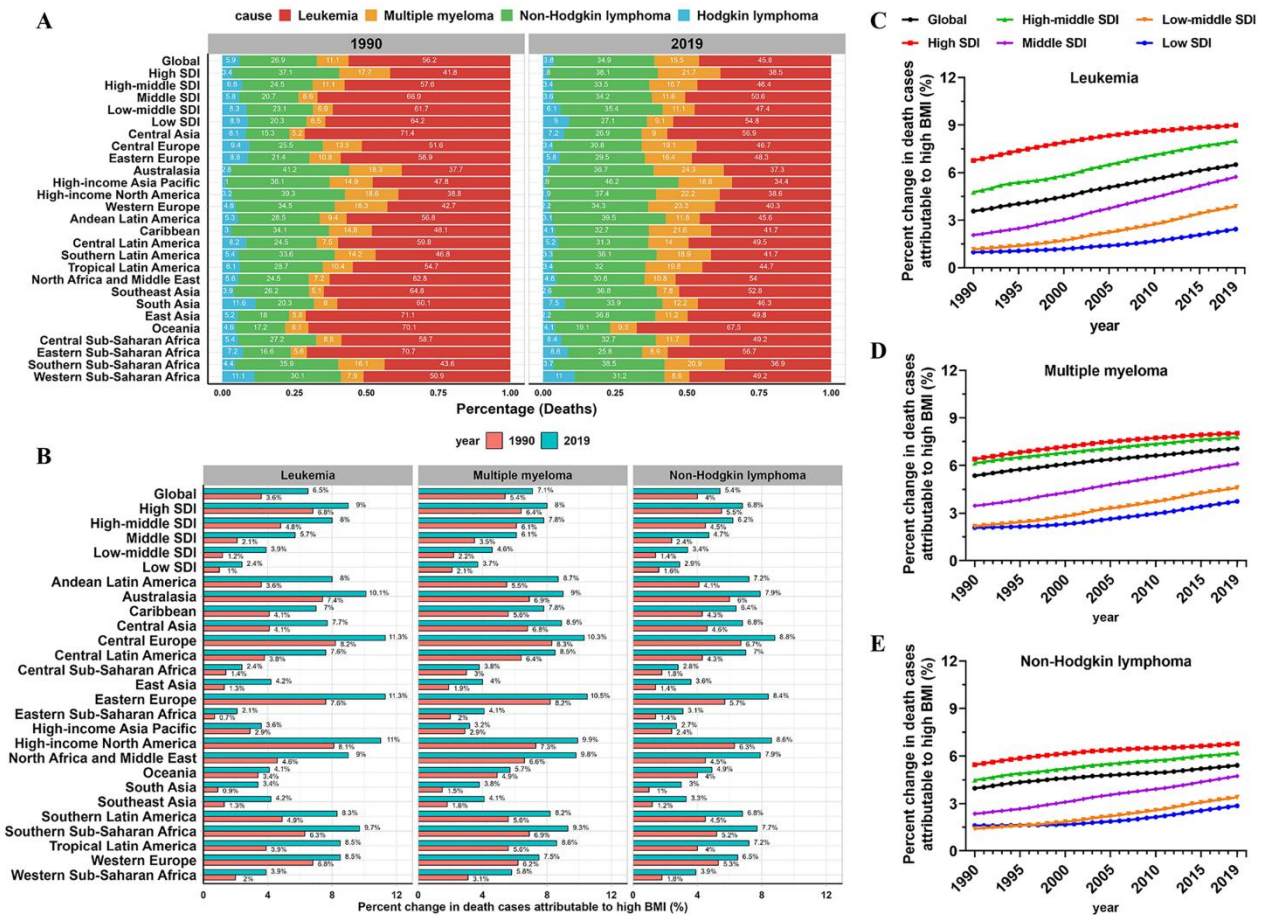


**Supplementary Figure S16.** The correlation between EAPC and age-standardized rate in Hodgkin lymphoma.



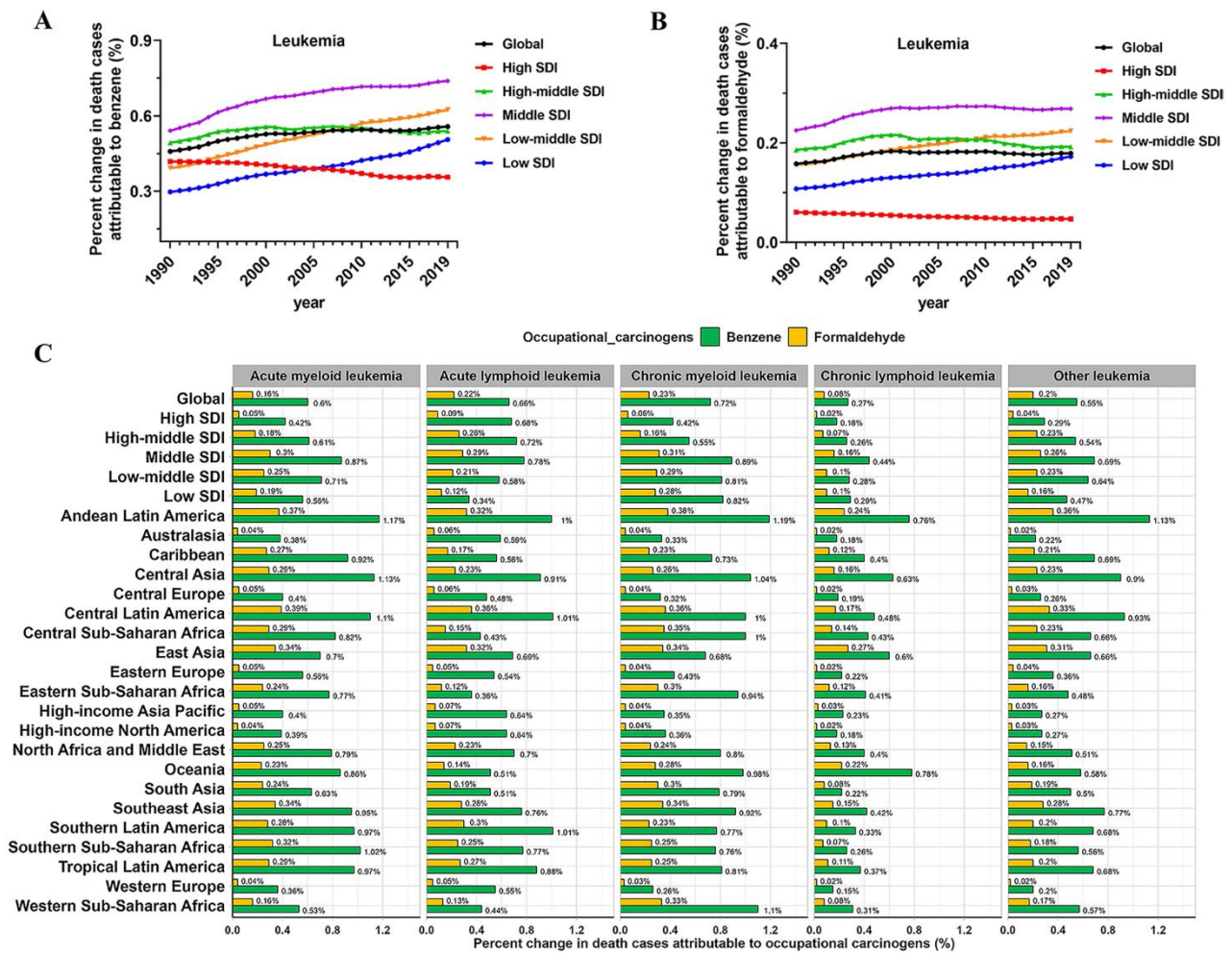
(A) The correlation between EAPC and ASIR in 1990. (B) The correlation between EAPC of ASIR and SDI in 2019. (C) ASIR of Hodgkin lymphoma by region from 1990 to 2019 based on SDI levels. (D) The correlation between EAPC and ASDR in 1990. (E) The correlation between EAPC of ASDR and SDI in 2019. (F) ASDR of Hodgkin lymphoma by region from 1990 to 2019 based on SDI levels. ASIR, age-standardized incidence rate; ASDR, age-standardized death rate; EAPC, estimated annual percentage change. SDI, Socio-demographic Index.

**Supplementary Figure S17.** Contribution of death causes to hematological malignancies by regions in 1990 and 2019.



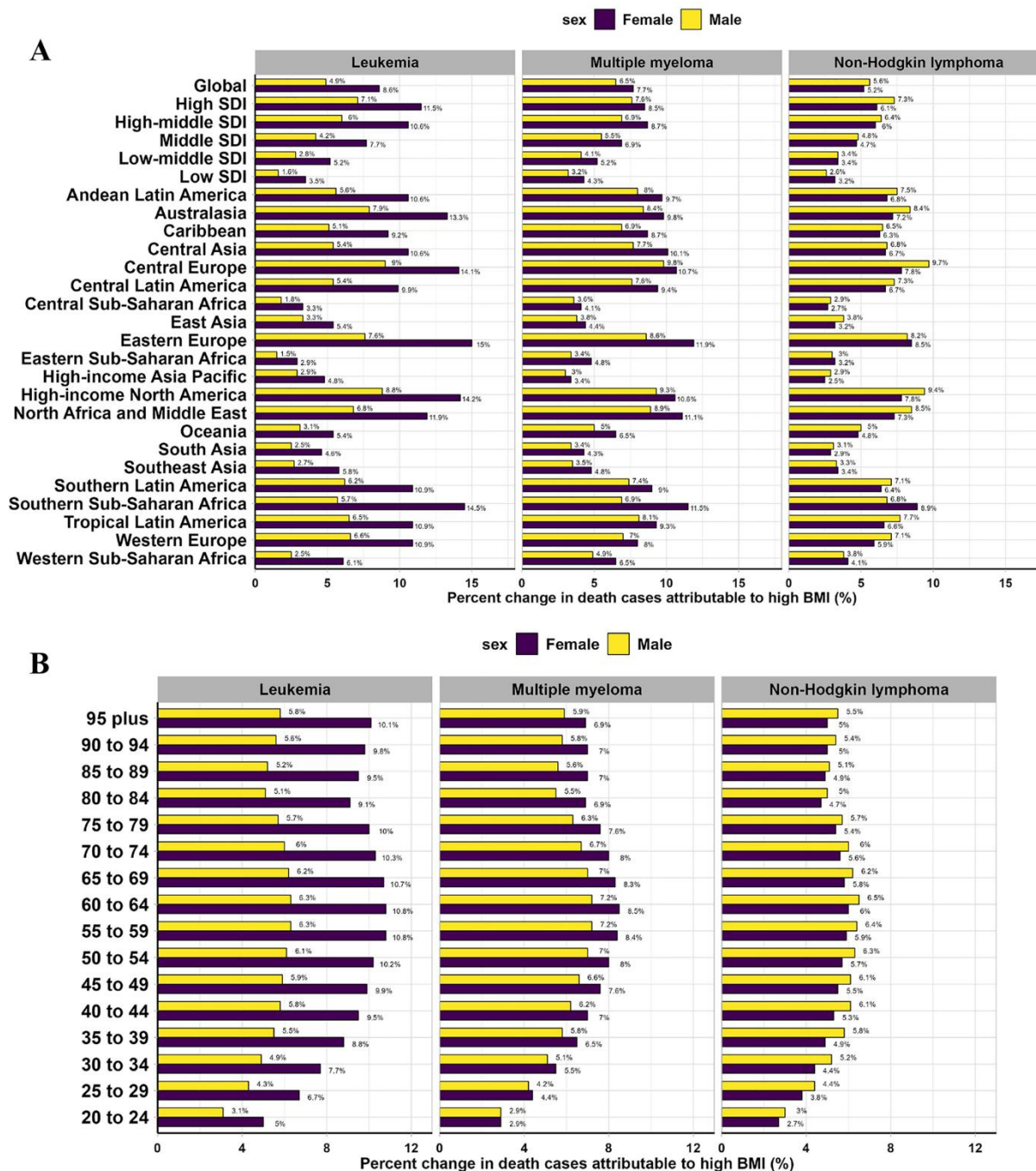
(A) Changes in the proportion of death cases from hematologic malignancies in all regions between 1990 and 2019. (B) The percent change in death cases attributable to high body-mass index in all regions between 1990 and 2019. (C) The percent change in leukemia death cases attributable to high body-mass index by SDI region from 1990 to 2019. (D) The percent change in multiple myeloma death cases attributable to high body-mass index by SDI region from 1990 to 2019. (E) The percent change in non-Hodgkin lymphoma death cases attributable to high body-mass index by SDI region from 1990 to 2019. SDI, Socio-demographic Index; BMI, Body-mass Index.

**Supplementary Figure S18.** Predominant contribution of occupational carcinogens to leukemia deaths by regions.



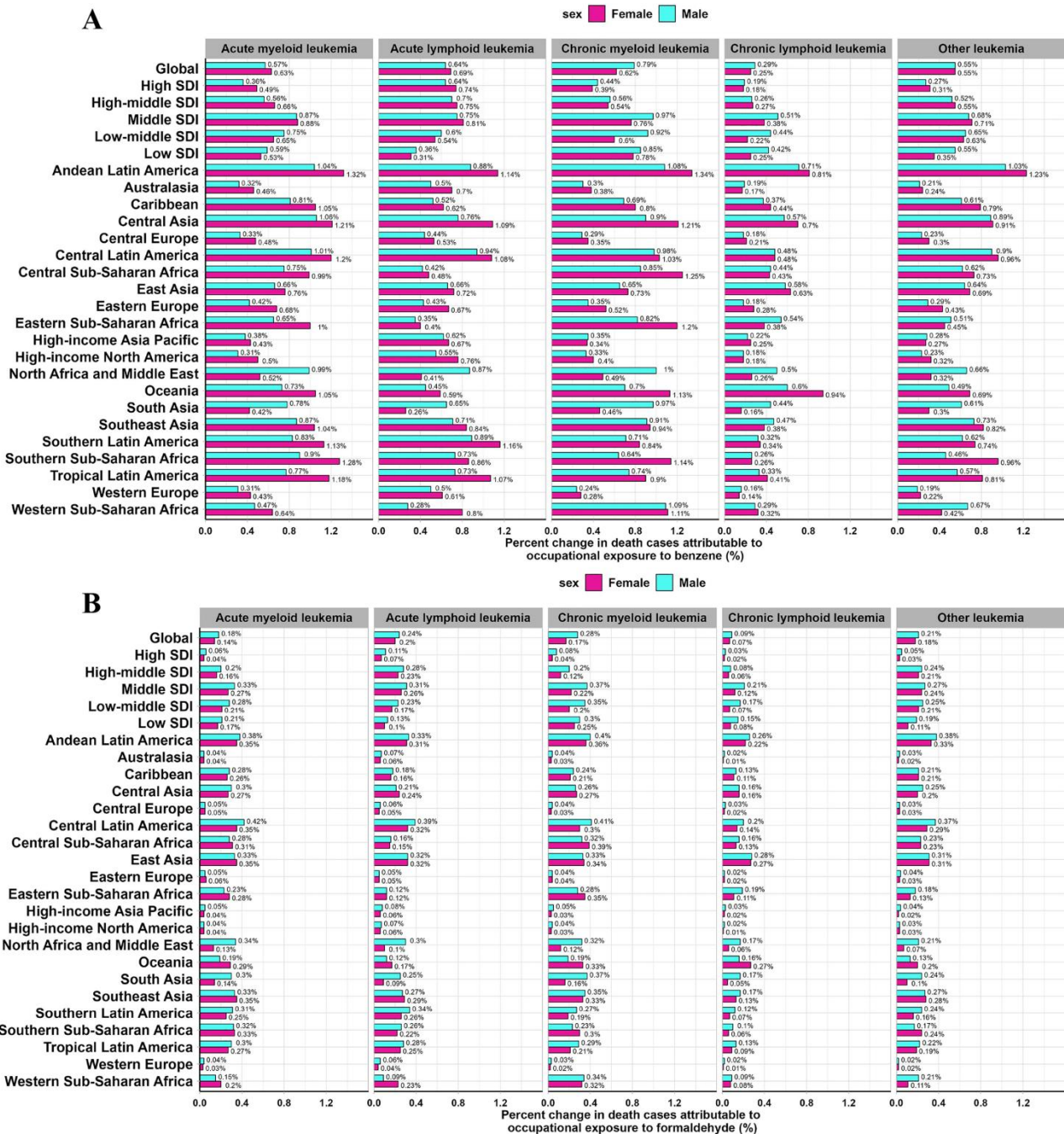
(A) The percent change in leukemia death cases attributable to occupational exposure to benzene by SDI region from 1990 to 2019. (B) The percent change in leukemia death cases attributable to occupational exposure to formaldehyde by SDI region from 1990 to 2019. (C) The percent change in death cases attributable to occupational carcinogens by all regions in 2019. SDI, Socio-demographic Index.

**Supplementary Figure S19.** Predominant contribution of high body-mass index to hematological malignancies deaths by region, sex, and age groups.



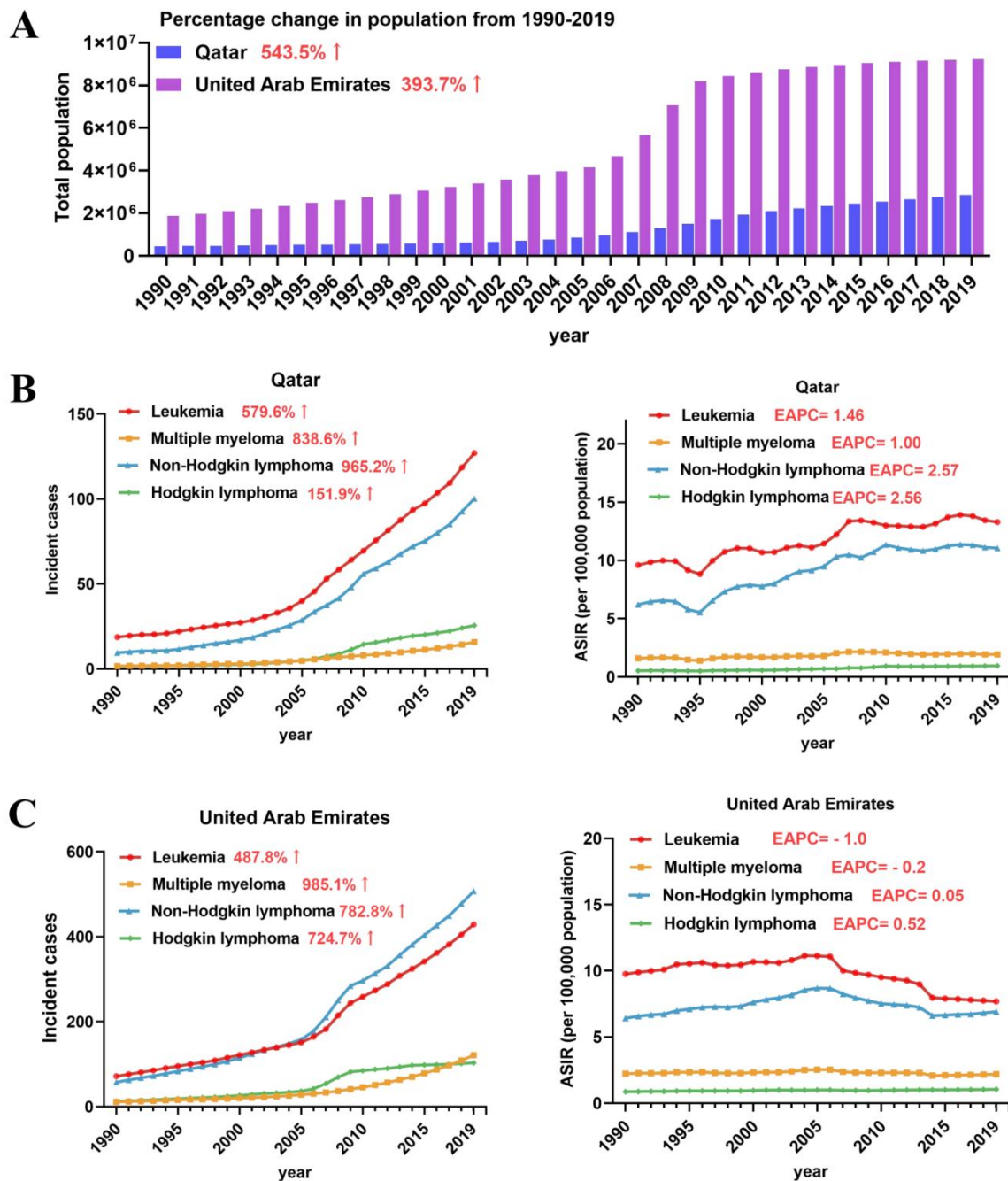
(A) The percent change in death cases attributable to high body-mass index by region and sex in 2019. (B) The percent change in death cases attributable to high body-mass index by age and sex, globally, 2019. SDI, Socio-demographic Index; BMI, Body-mass Index.

# Supplementary Figure S20. Predominant contribution of occupational carcinogens in hematological malignancies deaths by region, sex, and age groups.



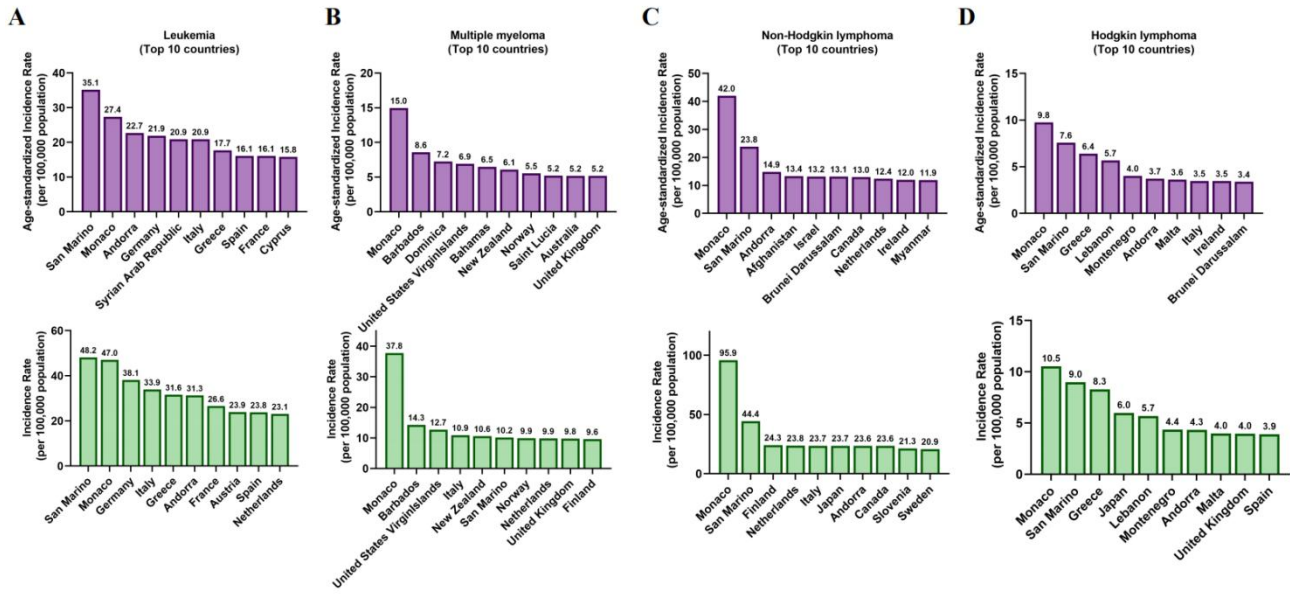
(A) The percent change in death cases attributable to occupational exposure to benzene by region and sex in 2019. (B) The percent change in death cases attributable to occupational exposure to formaldehyde by region and sex in 2019.

**Supplementary Figure S21.** Analysis of population, number of cases and incidence rates in two countries (Qatar and the United Arab Emirates) with large fluctuations in cases from 1990 to 2019.



(A) Demographic changes in Qatar and the United Arab Emirates. (B) Number of cases and incidence rates of hematological malignancies in Qatar. (C) Number of cases and incidence rates of hematological malignancies in United Arab Emirates.

**Supplementary Figure S22.** Crude incidence rates for the 10 countries with the largest age-standardized incidence rates.



(A) Leukemia. (B) Multiple myeloma. (C) Non-Hodgkin lymphoma. (D) Hodgkin lymphoma.

**Supplementary Table S1. 21** geographic regions in 204 countries around the world.

Regions	Countries	Regions	Countries	Regions	Countries	
<b>Andean Latin America</b>	Bolivia	<b>Eastern Sub-Saharan Africa</b>	Burundi	<b>Southeast Asia</b>	Cambodia	
	Ecuador		Comoros		Indonesia	
	Peru		Djibouti		Lao People's	
<b>Australasia</b>	Australia		Eritrea		Malaysia	
	New Zealand		Ethiopia		Maldives	
<b>Caribbean</b>	Antigua and		Kenya		Mauritius	
	Bahamas		Madagascar		Myanmar	
	Barbados		Malawi		Philippines	
	Belize		Mozambique		Seychelles	
	Bermuda		Rwanda		Sri Lanka	
	Cuba		Somalia		Thailand	
	Dominica		South Sudan		Timor-Leste	
	Dominican		Uganda		Viet Nam	
	Grenada		United Republic		<b>Southern Latin America</b>	Argentina
	Guyana		Zambia			Chile
	Haiti	Brunei	Uruguay			
	Jamaica	<b>High-income Asia Pacific</b>	Japan	<b>Southern Sub-Saharan Africa</b>	Botswana	
	Puerto Rico		Republic of		Eswatini	
	Saint Kitts and		Singapore		Lesotho	
	Saint Lucia	Canada	Namibia			
	Saint Vincent	Greenland	South Africa			
	Suriname	United States of	Zimbabwe			
	Trinidad and	<b>High-income North America</b>	Afghanistan	<b>Tropical Latin America</b>	Brazil	
United States	Algeria		Paraguay			
<b>Central Asia</b>	Armenia		Bahrain	<b>Western Europe</b>	Andorra	
	Azerbaijan		Egypt		Austria	
	Georgia		Iran (Islamic		Belgium	
	Kazakhstan		Iraq		Cyprus	
	Kyrgyzstan		Jordan		Denmark	
	Mongolia		Kuwait		Finland	
	Tajikistan		Lebanon		France	
	Turkmenistan		Libya		Germany	
	Uzbekistan		Morocco		Greece	
<b>Central Europe</b>	Albania		Oman		Iceland	
	Bosnia and		Palestine		Ireland	
	Bulgaria		Qatar		Israel	
	Croatia		Saudi Arabia		Italy	
	Czechia	Sudan	Luxembourg			
	Hungary	Syrian Arab	Malta			
	Montenegro	Tunisia	Monaco			
	North Macedonia	Turkey	Netherlands			
	Poland	United Arab	Norway			
	Romania	Yemen	Portugal			
	Serbia	<b>Oceania</b>	American Samoa	San Marino		
	Slovakia		Cook Islands	Spain		
Slovenia	Fiji		Sweden			
<b>Central Latin</b>	Colombia	Guam		Switzerland		



	Costa Rica		Kiribati		United Kingdom	
	El Salvador		Marshall Islands		Benin	
	Guatemala		Micronesia		Burkina Faso	
	Honduras		Nauru		Cabo Verde	
	Mexico		Niue		Cameroon	
	Nicaragua		Northern		Chad	
	Panama		Palau		Côte d'Ivoire	
	Venezuela		Papua New		Gambia	
			Samoa		Ghana	
<b>Central Sub-Saharan Africa</b>	Angola		Solomon Islands	<b>Western Sub-Saharan Africa</b>	Guinea	
	Central African		Tokelau		Guinea-Bissau	
	Congo		Tonga		Liberia	
	Democratic		Tuvalu		Mali	
	Equatorial		Vanuatu		Mauritania	
	Gabon				Niger	
<b>East Asia</b>	China	<b>South Asia</b>	Bangladesh		Nigeria	
	Democratic		Bhutan		Sao Tome and	
	Taiwan		India		Senegal	
<b>Eastern Europe</b>	Belarus		Nepal		Pakistan	Sierra Leone
	Estonia					Togo
	Latvia					
	Lithuania					
	Republic of					
	Russian					
	Ukraine					

**Supplementary Table S2.** Global age-standardised SEVs for both sexes combined in 1990 and 2019, and annualised rate of change between 1990 and 2019.

<b>Regions</b>	<b>risk factors</b>	<b>SEV 1990 (95% UI)</b>	<b>SEV 2019 (95% UI)</b>	<b>ARC 1990 to 2019 (95% UI)</b>
<b>Global</b>	High body-mass index	0.82 (0.51 to 1.45)	1.11 (0.69 to 1.97)	0.35 (0.3 to 0.41)
	Occupational exposure to benzene	0.64 (0.04 to 1.86)	0.84 (0.05 to 2.45)	0.31 (0.29 to 0.36)
	Occupational exposure to formaldehyde	0.99 (0.61 to 1.76)	1.27 (0.77 to 2.24)	0.28 (0.24 to 0.33)
<b>High SDI</b>	High body-mass index	0.92 (0.57 to 1.67)	1.05 (0.65 to 1.87)	0.13 (0.06 to 0.21)
	Occupational exposure to benzene	0.69 (0.42 to 1.22)	0.84 (0.53 to 1.52)	0.23 (0.16 to 0.3)
	Occupational exposure to formaldehyde	0.78 (0.05 to 2.25)	0.92 (0.06 to 2.62)	0.17 (0.12 to 0.24)
<b>High-middle SDI</b>	High body-mass index	0.69 (0.42 to 1.24)	0.86 (0.53 to 1.52)	0.25 (0.22 to 0.28)
	Occupational exposure to benzene	0.65 (0.4 to 1.17)	0.85 (0.52 to 1.52)	0.32 (0.29 to 0.35)
	Occupational exposure to formaldehyde	0.76 (0.47 to 1.36)	0.98 (0.61 to 1.75)	0.3 (0.27 to 0.33)
<b>Middle SDI</b>	High body-mass index	0.96 (0.59 to 1.72)	1.27 (0.79 to 2.26)	0.33 (0.22 to 0.47)
	Occupational exposure to benzene	0.82 (0.05 to 2.35)	1.08 (0.06 to 3.14)	0.32 (0.31 to 0.36)
	Occupational exposure to formaldehyde	0.85 (0.52 to 1.51)	1 (0.6 to 1.77)	0.17 (0.12 to 0.25)
<b>Low-middle SDI</b>	High body-mass index	0.8 (0.49 to 1.45)	1.13 (0.69 to 2.01)	0.41 (0.36 to 0.45)
	Occupational exposure to benzene	1.1 (0.67 to 1.97)	1.43 (0.89 to 2.54)	0.3 (0.23 to 0.39)
	Occupational exposure to formaldehyde	0.93 (0.55 to 1.65)	0.78 (0.48 to 1.39)	-0.16 (-0.21 to -0.09)
<b>Low SDI</b>	High body-mass index	0.62 (0.38 to 1.11)	0.85 (0.52 to 1.52)	0.38 (0.35 to 0.42)
	Occupational exposure to benzene	0.65 (0.39 to 1.18)	0.84 (0.52 to 1.51)	0.3 (0.19 to 0.43)
	Occupational exposure to formaldehyde	0.6 (0.37 to 1.09)	0.75 (0.46 to 1.33)	0.25 (0.2 to 0.3)
<b>Andean Latin America</b>	High body-mass index	19.52 (14.44 to 25.91)	32.07 (24.33 to 41)	0.64 (0.46 to 0.88)
	Occupational exposure to benzene	23.02 (17.33 to 30.86)	35.69 (28.32 to 44.06)	0.55 (0.39 to 0.77)
	Occupational exposure to formaldehyde	18.33 (14.19 to 23.74)	26.17 (20.51 to 33)	0.43 (0.3 to 0.58)

<b>Australasia</b>	High body-mass index	19.31 (14.7 to 25.34)	29.43 (23.69 to 37.24)	0.52 (0.4 to 0.69)
	Occupational exposure to benzene	20.77 (15.74 to 27.47)	30.15 (24.02 to 37.99)	0.45 (0.35 to 0.59)
	Occupational exposure to formaldehyde	20.26 (14.76 to 27.15)	30.57 (23.5 to 39.48)	0.51 (0.38 to 0.67)
<b>Caribbean</b>	High body-mass index	7.75 (5.33 to 10.67)	11.66 (8.92 to 14.94)	0.5 (0.34 to 0.77)
	Occupational exposure to benzene	4.81 (2.41 to 8.52)	13.15 (9.15 to 18.36)	1.73 (1.08 to 2.9)
	Occupational exposure to formaldehyde	20.9 (16.58 to 26.54)	29.27 (23.84 to 36.17)	0.4 (0.29 to 0.53)
<b>Central Asia</b>	High body-mass index	7.37 (5.02 to 10.54)	14.39 (11.42 to 18.04)	0.95 (0.68 to 1.33)
	Occupational exposure to benzene	11.09 (7.96 to 15.23)	19.45 (15.57 to 24.39)	0.75 (0.57 to 0.98)
	Occupational exposure to formaldehyde	19.27 (14.41 to 25.31)	30.94 (24.88 to 37.92)	0.61 (0.47 to 0.79)
<b>Central Europe</b>	High body-mass index	9.03 (5.69 to 13.64)	13 (9.26 to 17.8)	0.44 (0.27 to 0.71)
	Occupational exposure to benzene	26.81 (20.11 to 34.83)	41.05 (32 to 49.52)	0.53 (0.4 to 0.7)
	Occupational exposure to formaldehyde	14.05 (10.35 to 18.86)	23.2 (18.43 to 29.42)	0.65 (0.51 to 0.82)
<b>Central Latin America</b>	High body-mass index	5.76 (3.74 to 8.56)	11.37 (8.71 to 14.68)	0.97 (0.69 to 1.37)
	Occupational exposure to benzene	5.51 (3.62 to 8.33)	13.86 (11 to 17.39)	1.51 (1.06 to 2.13)
	Occupational exposure to formaldehyde	9.01 (6.27 to 12.76)	20.07 (16.21 to 24.94)	1.23 (0.91 to 1.63)
<b>Central Sub-Saharan Africa</b>	High body-mass index	18.93 (14.29 to 24.89)	33.31 (26.43 to 41.45)	0.76 (0.59 to 0.99)
	Occupational exposure to benzene	14.28 (9.76 to 19.9)	17.26 (12.66 to 23.08)	0.21 (0.12 to 0.33)
	Occupational exposure to formaldehyde	4.23 (2.69 to 6.41)	11.45 (8.79 to 13.99)	1.71 (1.14 to 2.54)
<b>East Asia</b>	High body-mass index	5.07 (3.11 to 7.76)	14.49 (11.5 to 17.85)	1.86 (1.22 to 2.78)
	Occupational exposure to benzene	14.29 (9.68 to 20.31)	26.17 (19.68 to 34.74)	0.83 (0.59 to 1.23)
	Occupational exposure to formaldehyde	20.92 (16.54 to 26.09)	31.34 (25.67 to 37.64)	0.5 (0.39 to 0.65)
<b>Eastern Europe</b>	High body-mass index	14.9 (10.46 to 20.59)	31.16 (25.45 to 39.39)	1.09 (0.78 to 1.6)
	Occupational exposure to benzene	18.35 (13.85 to 24.06)	26.46 (21.05 to 33.75)	0.44 (0.34 to 0.6)

	Occupational exposure to formaldehyde	8.09 (5.51 to 11.51)	18.55 (14.94 to 23.36)	1.29 (0.94 to 1.87)
<b>Eastern Sub-Saharan Africa</b>	High body-mass index	1.16 (0.72 to 2.06)	1.55 (0.96 to 2.78)	0.33 (0.26 to 0.42)
	Occupational exposure to benzene	0.81 (0.05 to 2.33)	1.04 (0.06 to 3)	0.28 (0.25 to 0.36)
	Occupational exposure to formaldehyde	0.81 (0.46 to 1.51)	1.13 (0.67 to 2.07)	0.39 (0.33 to 0.5)
<b>High-income Asia Pacific</b>	High body-mass index	0.94 (0.58 to 1.7)	1.25 (0.78 to 2.26)	0.33 (0.29 to 0.39)
	Occupational exposure to benzene	0.76 (0.35 to 1.59)	0.96 (0.49 to 1.9)	0.26 (0.19 to 0.42)
	Occupational exposure to formaldehyde	0.91 (0.09 to 2.55)	1.13 (0.17 to 3.09)	0.24 (0.21 to 0.89)
<b>High-income North America</b>	High body-mass index	0.84 (0.05 to 2.42)	1.07 (0.06 to 3.16)	0.27 (0.25 to 0.33)
	Occupational exposure to benzene	1 (0.06 to 2.87)	1.12 (0.07 to 3.19)	0.11 (0.07 to 0.18)
	Occupational exposure to formaldehyde	0.76 (0.32 to 1.65)	0.97 (0.46 to 1.99)	0.27 (0.2 to 0.47)
<b>North Africa and Middle East</b>	High body-mass index	1.28 (1.22 to 1.34)	1.47 (1.41 to 1.53)	0.15 (0.09 to 0.21)
	Occupational exposure to benzene	0.25 (0.24 to 0.26)	0.28 (0.26 to 0.3)	0.11 (0.05 to 0.19)
	Occupational exposure to formaldehyde	0.85 (0.82 to 0.89)	1.02 (0.98 to 1.06)	0.2 (0.13 to 0.26)
<b>Oceania</b>	High body-mass index	0.76 (0.73 to 0.78)	0.85 (0.83 to 0.87)	0.12 (0.08 to 0.16)
	Occupational exposure to benzene	0.27 (0.26 to 0.28)	0.26 (0.26 to 0.27)	-0.02 (-0.05 to 0.02)
	Occupational exposure to formaldehyde	1.2 (1.16 to 1.24)	1.35 (1.31 to 1.41)	0.13 (0.08 to 0.18)
<b>South Asia</b>	High body-mass index	0.99 (0.93 to 1.05)	1.1 (1.04 to 1.17)	0.12 (0.03 to 0.21)
	Occupational exposure to benzene	1.06 (1.01 to 1.09)	1.23 (1.13 to 1.34)	0.17 (0.07 to 0.29)
	Occupational exposure to formaldehyde	0.25 (0.23 to 0.26)	0.24 (0.23 to 0.25)	-0.04 (-0.1 to 0.03)
<b>Southeast Asia</b>	High body-mass index	1.06 (1.03 to 1.1)	1.2 (1.16 to 1.23)	0.13 (0.08 to 0.18)
	Occupational exposure to benzene	0.78 (0.76 to 0.79)	0.93 (0.9 to 0.95)	0.19 (0.15 to 0.23)
	Occupational exposure to formaldehyde	0.36 (0.35 to 0.37)	0.41 (0.4 to 0.42)	0.14 (0.11 to 0.17)
<b>Southern Latin</b>	High body-mass index	0.32 (0.31 to 0.34)	0.31 (0.29 to 0.32)	-0.06 (-0.11 to 0)

<b>America</b>	Occupational exposure to benzene	0.29 (0.28 to 0.3)	0.3 (0.28 to 0.31)	0.02 (-0.04 to 0.08)
	Occupational exposure to formaldehyde	0.84 (0.81 to 0.86)	1.04 (0.98 to 1.1)	0.24 (0.17 to 0.32)
<b>Southern Sub-Saharan Africa</b>	High body-mass index	0.76 (0.74 to 0.78)	0.9 (0.87 to 0.92)	0.18 (0.14 to 0.21)
	Occupational exposure to benzene	0.79 (0.77 to 0.81)	0.92 (0.89 to 0.95)	0.17 (0.13 to 0.21)
	Occupational exposure to formaldehyde	0.96 (0.94 to 0.99)	1.07 (1.03 to 1.11)	0.11 (0.07 to 0.15)
<b>Tropical Latin America</b>	High body-mass index	0.73 (0.71 to 0.75)	0.79 (0.77 to 0.8)	0.07 (0.04 to 0.11)
	Occupational exposure to benzene	0.64 (0.6 to 0.68)	0.71 (0.67 to 0.76)	0.12 (0.02 to 0.22)
	Occupational exposure to formaldehyde	0.76 (0.73 to 0.79)	0.86 (0.82 to 0.91)	0.14 (0.07 to 0.22)
<b>Western Europe</b>	High body-mass index	1.01 (0.97 to 1.04)	1.24 (1.2 to 1.28)	0.23 (0.18 to 0.29)
	Occupational exposure to benzene	1.22 (1.16 to 1.3)	1.25 (1.21 to 1.3)	0.02 (-0.04 to 0.09)
	Occupational exposure to formaldehyde	0.97 (0.91 to 1.03)	0.72 (0.7 to 0.75)	-0.25 (-0.3 to -0.19)
<b>Western Sub-Saharan Africa</b>	High body-mass index	1.05 (0.97 to 1.12)	1.13 (1.07 to 1.2)	0.08 (-0.01 to 0.18)
	Occupational exposure to benzene	0.27 (0.26 to 0.27)	0.27 (0.26 to 0.27)	0 (-0.02 to 0.02)
	Occupational exposure to formaldehyde	0.96 (0.92 to 1)	0.88 (0.85 to 0.91)	-0.08 (-0.13 to -0.04)

SEVs are presented for all levels of the risk factor hierarchy, and are measured on a scale of 0 to 100, where 100 indicates that the entire population is exposed to the maximum risk, and 0 indicates that the entire population is at minimum risk.

**Abbreviations:** ARC, annualised rate of change. SEVs=summary exposure values. UI, uncertainty interval.

**Supplementary Table S3.** The global incident cases, deaths, and their change trends of leukemia from 1990 to 2019.

Regions	Incidence (95% UI)					1990-2019	Deaths (95% UI)			1990-2019
	1990		2019				1990	2019		
	Incident cases No.×10 <sup>3</sup>	ASR per 100000	Incident cases No.×10 <sup>3</sup>	ASR per 100000	EAPC No. (95%CI)	Deaths No.×10 <sup>3</sup>	ASR per 100000	Deaths No.×10 <sup>3</sup>	ASR per 100000	EAPC No. (95%CI)
<b>Global</b>	474.92 (388.56 to 560.55)	9.6 (8.14 to 11.02)	643.58 (586.98 to 699.73)	8.22 (7.5 to 8.94)	-0.68 (-0.74 to -0.62)	263.26 (233.66 to 298.7)	5.82 (5.25 to 6.44)	334.59 (306.82 to 360.21)	4.26 (3.91 to 4.58)	-1.15 (-1.19 to -1.11)
<b>High SDI</b>	104.37 (100.13 to 106.82)	11.18 (10.74 to 11.45)	188.54 (169.16 to 208.21)	11.99 (10.87 to 13.21)	0.05 (-0.1 to 0.2)	58.95 (56.28 to 60.25)	5.96 (5.7 to 6.09)	85.26 (76.98 to 89.68)	4.61 (4.27 to 4.82)	-0.94 (-0.98 to -0.89)
<b>High-middle SDI</b>	114.95 (99.42 to 127.24)	10.54 (9.12 to 11.69)	167.72 (150.62 to 183.33)	10.11 (9.05 to 11.14)	-0.36 (-0.45 to -0.27)	65.41 (59.75 to 69.78)	6.06 (5.55 to 6.46)	75.83 (68.74 to 81.31)	4.21 (3.8 to 4.53)	-1.42 (-1.51 to -1.32)
<b>Middle SDI</b>	149.08 (113.02 to 179.04)	9.01 (7.16 to 10.62)	163.72 (144.03 to 183.74)	6.9 (6.08 to 7.74)	-1.1 (-1.21 to -0.99)	77.56 (66.82 to 87.91)	5.46 (4.79 to 6.11)	92.24 (81.5 to 103.86)	3.9 (3.45 to 4.38)	-1.22 (-1.25 to -1.18)
<b>Low-middle SDI</b>	69.81 (46.71 to 97.16)	6.28 (4.65 to 8.11)	74.17 (64.99 to 86.01)	4.72 (4.16 to 5.45)	-1.13 (-1.19 to -1.06)	40.24 (30.71 to 51.62)	4.42 (3.61 to 5.34)	51.12 (45.29 to 59.13)	3.45 (3.07 to 3.98)	-1 (-1.06 to -0.93)
<b>Low SDI</b>	36.47 (20.05 to 60.21)	6.43 (4.4 to 9.37)	49.05 (37.94 to 60.8)	5.1 (4.09 to 6.02)	-0.77 (-0.81 to -0.73)	20.96 (13.45 to 32.73)	4.78 (3.67 to 6.51)	29.92 (24.14 to 35.5)	3.88 (3.12 to 4.56)	-0.75 (-0.78 to -0.73)
<b>Andean Latin America</b>	2.72 (2.22 to 3.53)	7.44 (6.28 to 9.37)	4.42 (3.23 to 5.62)	7.3 (5.33 to 9.25)	0.01 (-0.15 to 0.17)	1.65 (1.44 to 2.06)	5.32 (4.69 to 6.5)	3.05 (2.26 to 3.81)	5.15 (3.83 to 6.42)	0.01 (-0.12 to 0.14)
<b>Australasia</b>	2.18 (2.07 to 2.28)	9.77 (9.28 to 10.21)	4.72 (3.81 to 5.8)	10.46 (8.44 to 12.78)	-0.01 (-0.14 to 0.13)	1.37 (1.31 to 1.41)	6.04 (5.76 to 6.25)	2.37 (2.12 to 2.57)	4.83 (4.39 to 5.2)	-0.92 (-1.03 to -0.81)
<b>Caribbean</b>	2.77 (2.1 to 3.83)	8.22 (6.52 to 10.88)	3.61 (2.84 to 4.45)	7.56 (5.83 to 9.49)	-0.16 (-0.27 to -0.05)	1.71 (1.43 to 2.12)	5.51 (4.77 to 6.58)	2.36 (1.95 to 2.81)	4.82 (3.95 to 5.81)	-0.35 (-0.44 to -0.27)

<b>Central Asia</b>	6.37 (5.72 to 6.84)	8.87 (8.11 to 9.41)	5.25 (4.61 to 6.05)	6.05 (5.35 to 6.93)	-1.53 (-1.64 to -1.43)	3.31 (3.18 to 3.44)	5.21 (5.02 to 5.38)	3.19 (2.85 to 3.6)	3.89 (3.5 to 4.37)	-1.14 (-1.21 to -1.07)
<b>Central Europe</b>	10.48 (10.18 to 10.87)	7.93 (7.67 to 8.23)	17.32 (15.24 to 19.6)	9.59 (8.45 to 10.87)	0.79 (0.73 to 0.85)	7.63 (7.41 to 7.92)	5.58 (5.42 to 5.81)	9.59 (8.46 to 10.79)	4.85 (4.29 to 5.45)	-0.44 (-0.51 to -0.36)
<b>Central Latin America</b>	11.1 (10.54 to 11.66)	7.03 (6.77 to 7.3)	15.98 (13.6 to 18.62)	6.58 (5.6 to 7.67)	-0.2 (-0.23 to -0.17)	6.51 (6.28 to 6.76)	4.85 (4.68 to 5.02)	10.72 (9.28 to 12.35)	4.45 (3.85 to 5.13)	-0.28 (-0.32 to -0.24)
<b>Central Sub-Saharan Africa</b>	3.3 (1.49 to 6.03)	5.45 (3.57 to 8.22)	4.09 (3.06 to 5.53)	3.89 (2.91 to 4.98)	-1.09 (-1.14 to -1.04)	1.64 (0.99 to 2.58)	3.79 (3.05 to 4.76)	2.42 (1.84 to 3.06)	2.99 (2.18 to 4.04)	-0.79 (-0.81 to -0.76)
<b>East Asia</b>	147.56 (106.05 to 178.26)	12.68 (9.23 to 15.23)	159.36 (131.9 to 185.88)	10.41 (8.69 to 12.26)	-1.04 (-1.22 to -0.87)	68.81 (56.22 to 79.72)	6.25 (5.17 to 7.2)	62.98 (52.7 to 73.47)	3.69 (3.12 to 4.28)	-1.99 (-2.1 to -1.88)
<b>Eastern Europe</b>	19.67 (18.89 to 20.41)	8.18 (7.83 to 8.53)	21.62 (19.53 to 23.85)	7.54 (6.86 to 8.29)	-0.58 (-0.8 to -0.35)	13.57 (13.2 to 13.9)	5.43 (5.27 to 5.57)	11.75 (10.64 to 12.9)	3.9 (3.55 to 4.28)	-1.55 (-1.72 to -1.38)
<b>Eastern Sub-Saharan Africa</b>	19.12 (10.21 to 33.79)	8.26 (5.3 to 13.2)	21.55 (14 to 29.46)	5.85 (4.15 to 7.71)	-1.11 (-1.21 to -1.02)	10.24 (6.15 to 17.77)	5.87 (4.19 to 8.84)	12.06 (8.4 to 15.92)	4.37 (3.19 to 5.61)	-1.03 (-1.1 to -0.96)
<b>High-income Asia Pacific</b>	15.85 (14.85 to 16.73)	9.03 (8.38 to 9.61)	29.2 (24.93 to 33.27)	10.33 (8.98 to 11.7)	0.5 (0.42 to 0.58)	8.59 (8.25 to 8.83)	4.61 (4.4 to 4.75)	12.12 (10.46 to 13.03)	3.02 (2.72 to 3.22)	-1.48 (-1.55 to -1.42)
<b>High-income North America</b>	39.06 (37.17 to 40.1)	11.82 (11.26 to 12.14)	61.55 (53.74 to 70.24)	10.69 (9.38 to 12.13)	-0.55 (-0.65 to -0.45)	23.44 (22.17 to 24.09)	6.8 (6.46 to 6.98)	34.71 (32.03 to 36.51)	5.65 (5.28 to 5.92)	-0.74 (-0.78 to -0.7)
<b>North Africa and Middle East</b>	29.19 (20.05 to 39.89)	9.51 (7.1 to 11.96)	39.3 (32.62 to 45.06)	7.76 (6.54 to 8.84)	-0.69 (-0.75 to -0.63)	16.92 (13.27 to 21.05)	6.99 (5.58 to 8.19)	25.14 (21.11 to 28.83)	5.41 (4.62 to 6.13)	-0.88 (-0.93 to -0.83)
<b>Oceania</b>	0.41 (0.27 to 0.61)	7.11 (5.19 to 9.77)	0.81 (0.53 to 1.22)	6.84 (4.8 to 9.75)	-0.16 (-0.24 to -0.09)	0.23 (0.18 to 0.32)	5.2 (4.08 to 6.71)	0.46 (0.33 to 0.64)	4.79 (3.58 to 6.48)	-0.34 (-0.38 to -0.3)

<b>South Asia</b>	46.31 (30.34 to 64.72)	4.75 (3.57 to 6.1)	59.86 (51.91 to 70.1)	3.81 (3.32 to 4.45)	-0.98 (-1.07 to -0.89)	31.17 (23.27 to 40.74)	3.81 (3.1 to 4.62)	44.55 (38.75 to 52.63)	2.98 (2.59 to 3.5)	-1.11 (-1.21 to -1.01)
<b>Southeast Asia</b>	37.67 (25.23 to 53.04)	8.64 (6.3 to 11.33)	42.26 (35.84 to 49.69)	6.81 (5.8 to 7.99)	-0.83 (-0.85 to -0.8)	20.85 (16.12 to 26.13)	5.77 (4.72 to 6.91)	28.5 (24.41 to 32.96)	4.74 (4.05 to 5.47)	-0.72 (-0.76 to -0.68)
<b>Southern Latin America</b>	3.61 (3.48 to 3.74)	7.52 (7.24 to 7.78)	5.39 (4.27 to 6.7)	7.2 (5.71 to 8.93)	-0.25 (-0.32 to -0.17)	2.72 (2.64 to 2.8)	5.82 (5.61 to 6)	3.84 (3.59 to 4.06)	4.9 (4.6 to 5.18)	-0.73 (-0.83 to -0.64)
<b>Southern Sub-Saharan Africa</b>	1.88 (1.61 to 2.14)	4.62 (4.02 to 5.11)	2.76 (2.38 to 3.14)	4.34 (3.71 to 4.86)	-0.2 (-0.31 to -0.09)	1.23 (1.09 to 1.36)	3.57 (3.08 to 4.01)	1.96 (1.65 to 2.17)	3.35 (2.78 to 3.73)	-0.19 (-0.39 to 0)
<b>Tropical Latin America</b>	9.35 (8.71 to 9.99)	6.86 (6.48 to 7.23)	12.37 (11.56 to 13.08)	5.53 (5.14 to 5.88)	-0.6 (-0.66 to -0.54)	5.8 (5.55 to 6.07)	4.85 (4.66 to 5.04)	9.07 (8.44 to 9.5)	3.97 (3.69 to 4.19)	-0.56 (-0.61 to -0.52)
<b>Western Europe</b>	60.01 (57.77 to 61.72)	12.71 (12.25 to 13.14)	118.62 (102.9 to 135.44)	16.87 (14.68 to 19.38)	0.71 (0.41 to 1.01)	31.67 (30.3 to 32.41)	5.95 (5.7 to 6.08)	45 (39.92 to 47.62)	4.91 (4.46 to 5.15)	-0.69 (-0.74 to -0.63)
<b>Western Sub-Saharan Africa</b>	6.33 (4.29 to 9.21)	3.82 (2.97 to 4.85)	13.56 (10.27 to 17.28)	3.9 (3.14 to 4.68)	0.21 (0.16 to 0.26)	4.19 (3.11 to 5.59)	3.13 (2.54 to 3.73)	8.78 (6.93 to 10.83)	3.12 (2.54 to 3.72)	0.1 (0.06 to 0.14)

**Abbreviations:** ASR, age-standardised rate; EAPC, estimated annual percentage change; UI, uncertainty interval. CI, confidence interval.



**Supplementary Table S4.** The global incident cases, deaths, and their change trends of multiple myeloma from 1990 to 2019.

Regions	Incidence (95% UI)					1990-2019	Deaths (95% UI)			1990-2019
	1990		2019				1990	2019		
	Incident cases No.×10 <sup>3</sup>	ASR per 100000	Incident cases No.×10 <sup>3</sup>	ASR per 100000	EAPC No. (95%CI)	Deaths No.×10 <sup>3</sup>	ASR per 100000	Deaths No.×10 <sup>3</sup>	ASR per 100000	EAPC No. (95%CI)
<b>Global</b>	65.94 (60.78 to 74.06)	1.73 (1.59 to 1.93)	155.69 (136.59 to 172.58)	1.92 (1.68 to 2.12)	0.25 (0.15 to 0.35)	51.86 (47.71 to 58.98)	1.4 (1.28 to 1.58)	113.47 (99.53 to 121.74)	1.42 (1.24 to 1.52)	-0.07 (-0.15 to 0.01)
<b>High SDI</b>	34.05 (30.13 to 36.15)	3.23 (2.84 to 3.43)	72.25 (62.61 to 82.52)	3.77 (3.29 to 4.33)	0.33 (0.17 to 0.49)	24.95 (22.29 to 26.3)	2.35 (2.09 to 2.48)	48.11 (41.27 to 51.24)	2.4 (2.1 to 2.59)	-0.17 (-0.29 to -0.04)
<b>High-middle SDI</b>	16.02 (14.85 to 18.2)	1.51 (1.4 to 1.71)	37.36 (30.96 to 41.84)	1.83 (1.52 to 2.05)	0.64 (0.54 to 0.75)	12.6 (11.62 to 14.4)	1.21 (1.12 to 1.39)	27.22 (22.94 to 29.56)	1.34 (1.13 to 1.45)	0.3 (0.2 to 0.4)
<b>Middle SDI</b>	8.65 (7.54 to 10.84)	0.84 (0.74 to 1.04)	26.72 (22 to 30.38)	1.06 (0.88 to 1.21)	0.83 (0.79 to 0.87)	7.65 (6.7 to 9.51)	0.77 (0.68 to 0.95)	21.14 (17.47 to 24.14)	0.86 (0.71 to 0.99)	0.39 (0.36 to 0.42)
<b>Low-middle SDI</b>	4.9 (4.13 to 6.7)	0.82 (0.7 to 1.11)	13.76 (11.92 to 15.91)	1 (0.87 to 1.16)	0.68 (0.65 to 0.71)	4.48 (3.8 to 6.04)	0.79 (0.67 to 1.04)	11.95 (10.18 to 14.02)	0.89 (0.76 to 1.05)	0.44 (0.42 to 0.47)
<b>Low SDI</b>	2.27 (1.78 to 3.07)	0.97 (0.77 to 1.29)	5.48 (4.32 to 6.39)	1.07 (0.84 to 1.23)	0.34 (0.32 to 0.36)	2.13 (1.67 to 2.87)	0.95 (0.74 to 1.26)	4.97 (3.94 to 5.77)	1.01 (0.8 to 1.17)	0.2 (0.18 to 0.22)
<b>Andean Latin America</b>	0.3 (0.24 to 0.42)	1.48 (1.19 to 2.06)	0.96 (0.75 to 1.21)	1.71 (1.34 to 2.18)	0.74 (0.62 to 0.85)	0.27 (0.22 to 0.38)	1.38 (1.12 to 1.94)	0.79 (0.62 to 1)	1.43 (1.13 to 1.8)	0.34 (0.22 to 0.46)
<b>Australasia</b>	1.01 (0.87 to 1.09)	4.26 (3.68 to 4.6)	2.66 (2.1 to 3.39)	5.33 (4.21 to 6.8)	0.61 (0.42 to 0.79)	0.66 (0.58 to 0.7)	2.8 (2.45 to 2.99)	1.54 (1.33 to 1.74)	2.97 (2.59 to 3.39)	0.08 (-0.02 to 0.17)
<b>Caribbean</b>	0.66 (0.57 to 0.78)	2.55 (2.21 to 3.02)	1.69 (1.4 to 1.99)	3.25 (2.7 to 3.84)	0.94 (0.89 to 0.99)	0.53 (0.46 to 0.63)	2.05 (1.79 to 2.43)	1.22 (1.02 to 1.44)	2.36 (1.97 to 2.79)	0.58 (0.53 to 0.64)
<b>Central Asia</b>	0.28 (0.24 to 0.32)	0.6 (0.5 to 0.68)	0.61 (0.53 to 0.69)	0.8 (0.7 to 0.89)	1.1 (1 to 1.21)	0.24 (0.2 to 0.28)	0.53 (0.44 to 0.6)	0.5 (0.44 to 0.56)	0.69 (0.61 to 0.78)	0.99 (0.93 to 1.06)

<b>Central Europe</b>	2.32 (2.2 to 2.68)	1.55 (1.47 to 1.79)	4.55 (3.6 to 5.25)	2.13 (1.69 to 2.46)	1.1 (0.93 to 1.27)	2 (1.89 to 2.33)	1.35 (1.28 to 1.59)	3.92 (3.1 to 4.5)	1.79 (1.42 to 2.06)	0.96 (0.8 to 1.12)
<b>Central Latin America</b>	0.96 (0.9 to 1.07)	1.14 (1.07 to 1.28)	3.93 (3.27 to 4.64)	1.65 (1.38 to 1.96)	1.17 (1.08 to 1.25)	0.82 (0.77 to 0.92)	1 (0.93 to 1.13)	3.04 (2.53 to 3.59)	1.3 (1.08 to 1.53)	0.82 (0.76 to 0.88)
<b>Central Sub-Saharan Africa</b>	0.26 (0.18 to 0.35)	1.16 (0.81 to 1.54)	0.63 (0.39 to 0.86)	1.2 (0.74 to 1.64)	0.12 (0.05 to 0.18)	0.25 (0.17 to 0.33)	1.15 (0.8 to 1.5)	0.57 (0.35 to 0.78)	1.16 (0.71 to 1.56)	0.02 (-0.03 to 0.08)
<b>East Asia</b>	6.37 (5.24 to 8.92)	0.71 (0.59 to 0.99)	19.71 (14.45 to 24.29)	0.94 (0.69 to 1.16)	1.05 (0.99 to 1.11)	5.58 (4.56 to 7.8)	0.64 (0.54 to 0.89)	14.11 (10.74 to 17.15)	0.68 (0.52 to 0.83)	0.21 (0.16 to 0.26)
<b>Eastern Europe</b>	3.14 (2.78 to 3.59)	1.1 (0.97 to 1.28)	5.36 (4.64 to 6.08)	1.57 (1.35 to 1.78)	1.4 (1.24 to 1.56)	2.48 (2.22 to 2.94)	0.88 (0.78 to 1.06)	3.99 (3.37 to 4.51)	1.15 (0.97 to 1.31)	1.05 (0.91 to 1.19)
<b>Eastern Sub-Saharan Africa</b>	0.85 (0.62 to 1.12)	1.16 (0.86 to 1.49)	2.03 (1.44 to 2.5)	1.28 (0.91 to 1.56)	0.38 (0.35 to 0.4)	0.81 (0.59 to 1.05)	1.15 (0.85 to 1.47)	1.89 (1.35 to 2.31)	1.25 (0.89 to 1.52)	0.34 (0.32 to 0.37)
<b>High-income Asia Pacific</b>	3.53 (3.19 to 3.89)	1.77 (1.6 to 1.96)	9.19 (7.13 to 10.89)	1.96 (1.58 to 2.3)	0.37 (0.22 to 0.52)	2.69 (2.44 to 2.98)	1.36 (1.23 to 1.51)	6.56 (5.16 to 7.28)	1.32 (1.07 to 1.45)	-0.31 (-0.46 to -0.16)
<b>High-income North America</b>	15.26 (12.82 to 15.88)	4.32 (3.62 to 4.5)	30.39 (26.02 to 36.83)	4.8 (4.12 to 5.87)	0.11 (-0.02 to 0.25)	11.2 (9.44 to 11.63)	3.11 (2.62 to 3.23)	19.94 (18.01 to 22.92)	3.07 (2.8 to 3.58)	-0.31 (-0.42 to -0.21)
<b>North Africa and Middle East</b>	2.2 (1.76 to 2.93)	1.29 (1.04 to 1.7)	6.37 (4.99 to 7.64)	1.49 (1.17 to 1.77)	0.52 (0.42 to 0.63)	1.95 (1.56 to 2.59)	1.19 (0.97 to 1.56)	5.01 (3.94 to 5.97)	1.22 (0.96 to 1.44)	0.13 (0.03 to 0.22)
<b>Oceania</b>	0.03 (0.02 to 0.05)	1.02 (0.68 to 1.68)	0.07 (0.05 to 0.11)	1.01 (0.69 to 1.55)	-0.08 (-0.12 to -0.05)	0.03 (0.02 to 0.05)	0.96 (0.64 to 1.56)	0.06 (0.04 to 0.1)	0.94 (0.64 to 1.43)	-0.12 (-0.15 to -0.09)
<b>South Asia</b>	4.52 (3.54 to 5.65)	0.82 (0.64 to 1.01)	13.37 (9.79 to 15.94)	0.95 (0.69 to 1.13)	0.49 (0.45 to 0.54)	4.15 (3.26 to 5.22)	0.79 (0.62 to 0.98)	11.73 (8.61 to 13.93)	0.86 (0.62 to 1.02)	0.24 (0.19 to 0.3)
<b>Southeast Asia</b>	1.82 (1.54 to 2.48)	0.71 (0.6 to 0.97)	5 (4.17 to 6.59)	0.82 (0.68 to 1.09)	0.48 (0.43 to 0.53)	1.63 (1.39 to 2.2)	0.66 (0.56 to 0.89)	4.19 (3.5 to 5.59)	0.71 (0.59 to 0.95)	0.23 (0.19 to 0.27)

<b>Southern Latin America</b>	0.96 (0.84 to 1.09)	2.07 (1.82 to 2.34)	2.21 (1.73 to 2.84)	2.66 (2.08 to 3.41)	0.71 (0.57 to 0.85)	0.83 (0.73 to 0.92)	1.8 (1.61 to 2.02)	1.74 (1.58 to 2)	2.07 (1.88 to 2.37)	0.32 (0.19 to 0.45)
<b>Southern Sub-Saharan Africa</b>	0.51 (0.4 to 0.58)	1.83 (1.45 to 2.1)	1.27 (0.9 to 1.47)	2.24 (1.6 to 2.59)	0.71 (0.52 to 0.91)	0.45 (0.36 to 0.52)	1.7 (1.33 to 1.95)	1.11 (0.79 to 1.28)	2.04 (1.45 to 2.35)	0.67 (0.47 to 0.88)
<b>Tropical Latin America</b>	1.3 (1.23 to 1.49)	1.41 (1.33 to 1.63)	5 (4.35 to 5.39)	2.06 (1.78 to 2.22)	1.3 (1.14 to 1.46)	1.1 (1.04 to 1.28)	1.23 (1.15 to 1.45)	4.02 (3.4 to 4.31)	1.67 (1.41 to 1.8)	1.07 (0.93 to 1.22)
<b>Western Europe</b>	18.98 (17.48 to 21.57)	3.26 (3 to 3.67)	38.98 (31.73 to 44.71)	4.24 (3.51 to 4.9)	0.68 (0.46 to 0.9)	13.56 (12.54 to 15.48)	2.28 (2.1 to 2.59)	26 (21.28 to 27.91)	2.64 (2.22 to 2.82)	0.28 (0.11 to 0.44)
<b>Western Sub-Saharan Africa</b>	0.69 (0.56 to 0.88)	0.79 (0.64 to 1.01)	1.7 (1.34 to 2.07)	0.91 (0.72 to 1.11)	0.57 (0.52 to 0.61)	0.65 (0.53 to 0.83)	0.77 (0.63 to 0.98)	1.54 (1.19 to 1.88)	0.86 (0.67 to 1.05)	0.46 (0.42 to 0.49)

**Abbreviations:** ASR, age-standardised rate; EAPC, estimated annual percentage change; UI, uncertainty interval. CI, confidence interval.

**Supplementary Table S5.** The global incident cases, deaths, and their change trends of Non-Hodgkin lymphoma from 1990 to 2019.

Regions	Incidence (95% UI)					1990-2019	Deaths (95% UI)			1990-2019
	1990		2019				1990	2019		
	Incident cases No.×10 <sup>3</sup>	ASR per 100000	Incident cases No.×10 <sup>3</sup>	ASR per 100000	EAPC No. (95%CI)	Deaths No.×10 <sup>3</sup>	ASR per 100000	Deaths No.×10 <sup>3</sup>	ASR per 100000	EAPC No. (95%CI)
<b>Global</b>	190.73 (179.03 to 203.62)	4.65 (4.37 to 4.93)	457.08 (416.89 to 498.78)	5.73 (5.21 to 6.25)	0.56 (0.45 to 0.66)	126.08 (119.77 to 131.98)	3.15 (3 to 3.29)	254.61 (237.71 to 270.35)	3.19 (2.98 to 3.39)	-0.09 (-0.17 to -0.02)
<b>High SDI</b>	98.35 (92.37 to 104.1)	9.71 (9.15 to 10.25)	184.16 (161.68 to 206.62)	9.93 (8.84 to 11.11)	-0.37 (-0.56 to -0.18)	52.44 (50.26 to 53.64)	5.09 (4.88 to 5.2)	84.47 (76.27 to 89.26)	4.33 (3.97 to 4.55)	-0.98 (-1.15 to -0.82)
<b>High-middle SDI</b>	41.73 (39.17 to 44.57)	3.83 (3.59 to 4.09)	110.05 (98.42 to 122.54)	5.86 (5.25 to 6.49)	1.48 (1.36 to 1.6)	27.84 (26.64 to 28.92)	2.61 (2.49 to 2.71)	54.72 (50.52 to 58.45)	2.81 (2.6 to 3)	0.19 (0.08 to 0.29)
<b>Middle SDI</b>	28.46 (25.4 to 32.02)	2.18 (1.99 to 2.4)	101.65 (91.21 to 113.6)	4.13 (3.71 to 4.61)	2.53 (2.37 to 2.69)	23.99 (22.13 to 25.7)	2.05 (1.91 to 2.18)	62.23 (56.93 to 68.34)	2.55 (2.33 to 2.81)	0.94 (0.84 to 1.03)
<b>Low-middle SDI</b>	15.89 (13.37 to 19.49)	2.09 (1.84 to 2.43)	45.39 (40.34 to 51.62)	3.05 (2.73 to 3.43)	1.31 (1.26 to 1.37)	15.09 (13.12 to 17.46)	2.18 (1.95 to 2.46)	38.24 (34.67 to 42.42)	2.74 (2.49 to 3.03)	0.83 (0.81 to 0.86)
<b>Low SDI</b>	6.19 (5.11 to 7.7)	2.1 (1.82 to 2.42)	15.59 (12.91 to 18.76)	2.36 (1.98 to 2.78)	0.41 (0.36 to 0.46)	6.63 (5.41 to 7.85)	2.34 (2.04 to 2.65)	14.8 (12.72 to 17.09)	2.51 (2.12 to 2.93)	0.26 (0.21 to 0.3)
<b>Andean Latin America</b>	0.86 (0.76 to 0.97)	3.34 (2.99 to 3.73)	3.59 (2.91 to 4.48)	6.21 (5.03 to 7.76)	2.41 (2.24 to 2.57)	0.83 (0.74 to 0.92)	3.51 (3.16 to 3.9)	2.64 (2.16 to 3.21)	4.68 (3.84 to 5.69)	1.14 (0.96 to 1.32)
<b>Australasia</b>	3.01 (2.79 to 3.24)	12.95 (12.03 to 13.91)	5.54 (4.38 to 6.87)	11.31 (8.97 to 14.07)	-1.12 (-1.39 to -0.85)	1.49 (1.41 to 1.57)	6.41 (6.03 to 6.73)	2.33 (2.04 to 2.58)	4.57 (4.04 to 5.05)	-1.78 (-2.01 to -1.56)
<b>Caribbean</b>	1.59 (1.47 to 1.71)	5.39 (5.02 to 5.78)	2.82 (2.37 to 3.32)	5.58 (4.69 to 6.58)	0.17 (0.02 to 0.32)	1.21 (1.12 to 1.29)	4.26 (3.98 to 4.51)	1.86 (1.58 to 2.16)	3.65 (3.11 to 4.25)	-0.47 (-0.66 to -0.28)

<b>Central Asia</b>	1 (0.87 to 1.18)	1.73 (1.54 to 1.99)	2.45 (2.12 to 2.84)	2.96 (2.58 to 3.39)	1.74 (1.55 to 1.92)	0.71 (0.68 to 0.74)	1.34 (1.28 to 1.4)	1.51 (1.35 to 1.71)	1.92 (1.71 to 2.16)	1.06 (0.89 to 1.23)
<b>Central Europe</b>	5.54 (5.18 to 5.93)	3.99 (3.73 to 4.27)	12.27 (10.74 to 14.12)	6.49 (5.71 to 7.43)	1.76 (1.55 to 1.96)	3.77 (3.65 to 3.91)	2.67 (2.58 to 2.76)	6.32 (5.57 to 7.14)	3.13 (2.77 to 3.54)	0.58 (0.42 to 0.75)
<b>Central Latin America</b>	3.23 (3.01 to 3.5)	2.82 (2.66 to 3.02)	10.4 (8.91 to 12.17)	4.32 (3.71 to 5.05)	1.46 (1.33 to 1.59)	2.67 (2.58 to 2.75)	2.64 (2.54 to 2.73)	6.79 (5.9 to 7.86)	2.86 (2.49 to 3.32)	0.28 (0.22 to 0.34)
<b>Central Sub-Saharan Africa</b>	0.66 (0.52 to 0.81)	2.26 (1.74 to 2.82)	1.67 (1.18 to 2.26)	2.34 (1.61 to 3.32)	0.17 (-0.01 to 0.35)	0.76 (0.6 to 0.96)	2.58 (2.05 to 3.1)	1.61 (1.15 to 2.17)	2.51 (1.73 to 3.58)	-0.05 (-0.22 to 0.12)
<b>East Asia</b>	21.61 (18.55 to 25.57)	2.12 (1.85 to 2.46)	95.93 (81.21 to 113.06)	5.04 (4.31 to 5.89)	3.57 (3.29 to 3.86)	17.42 (15.44 to 19.55)	1.86 (1.66 to 2.08)	46.45 (39.66 to 54)	2.35 (2.02 to 2.71)	1.16 (0.95 to 1.36)
<b>Eastern Europe</b>	7.62 (7.1 to 8.23)	3.05 (2.83 to 3.31)	13.38 (11.91 to 14.96)	4.61 (4.12 to 5.13)	1.77 (1.48 to 2.07)	4.93 (4.76 to 5.12)	1.89 (1.82 to 1.96)	7.18 (6.45 to 7.93)	2.29 (2.06 to 2.53)	0.75 (0.52 to 0.97)
<b>Eastern Sub-Saharan Africa</b>	2.16 (1.74 to 2.67)	2.41 (2.08 to 2.76)	5.41 (4.49 to 6.55)	2.78 (2.37 to 3.27)	0.58 (0.49 to 0.66)	2.4 (1.89 to 2.91)	2.79 (2.41 to 3.2)	5.5 (4.66 to 6.53)	3.19 (2.76 to 3.69)	0.57 (0.47 to 0.66)
<b>High-income Asia Pacific</b>	12.23 (11.5 to 12.94)	6.3 (5.93 to 6.66)	36.24 (30.09 to 42.22)	8.06 (6.89 to 9.34)	0.7 (0.51 to 0.89)	6.49 (6.23 to 6.65)	3.34 (3.19 to 3.43)	16.28 (13.79 to 17.64)	3.34 (2.94 to 3.57)	-0.18 (-0.33 to -0.04)
<b>High-income North America</b>	45.61 (42.72 to 48.3)	13.22 (12.42 to 14)	69.46 (59.74 to 79.49)	11.28 (9.74 to 12.9)	-1.2 (-1.43 to -0.97)	23.74 (22.64 to 24.35)	6.75 (6.46 to 6.92)	33.58 (31 to 35.37)	5.27 (4.9 to 5.53)	-1.46 (-1.67 to -1.26)
<b>North Africa and Middle East</b>	7.67 (6.32 to 9.3)	3.4 (2.87 to 3.97)	22.61 (19.76 to 25.81)	4.72 (4.15 to 5.38)	1.22 (1.08 to 1.36)	6.59 (5.53 to 7.64)	3.34 (2.83 to 3.79)	14.26 (12.44 to 16.24)	3.17 (2.75 to 3.6)	-0.18 (-0.31 to -0.05)
<b>Oceania</b>	0.06 (0.05 to 0.07)	1.6 (1.37 to 1.84)	0.14 (0.12 to 0.17)	1.71 (1.46 to 2.03)	0.18 (0.11 to 0.25)	0.06 (0.05 to 0.07)	1.65 (1.42 to 1.88)	0.13 (0.11 to 0.15)	1.7 (1.45 to 2)	0.1 (0.03 to 0.16)
<b>South Asia</b>	11.36 (9.17 to 14.82)	1.56 (1.32 to 1.88)	38.92 (32.86 to 44.98)	2.53 (2.15 to 3.01)	1.68 (1.61 to 1.74)	10.51 (8.93 to 12.27)	1.6 (1.41 to 1.84)	32.62 (28.05 to 37.19)	2.28 (1.97 to 2.66)	1.25 (1.18 to 1.32)

			47.02)					37.95)		
<b>Southeast Asia</b>	8.83 (7.57 to 10.28)	2.77 (2.44 to 3.17)	24.13 (20.67 to 28.16)	3.88 (3.34 to 4.49)	1.11 (1.07 to 1.16)	8.45 (7.32 to 9.78)	2.89 (2.58 to 3.28)	19.89 (17.32 to 22.88)	3.31 (2.91 to 3.79)	0.44 (0.4 to 0.47)
<b>Southern Latin America</b>	2.37 (2.18 to 2.57)	5.02 (4.61 to 5.42)	5.3 (4.15 to 6.73)	6.64 (5.19 to 8.44)	0.63 (0.34 to 0.92)	1.95 (1.88 to 2.03)	4.21 (4.03 to 4.36)	3.33 (3.07 to 3.61)	4.06 (3.76 to 4.4)	-0.43 (-0.69 to -0.17)
<b>Southern Sub-Saharan Africa</b>	1.09 (0.97 to 1.21)	3.03 (2.69 to 3.35)	2.35 (2.05 to 2.67)	3.58 (3.16 to 4.02)	0.63 (0.48 to 0.78)	1.01 (0.91 to 1.09)	3.07 (2.73 to 3.38)	2.04 (1.83 to 2.28)	3.34 (3.01 to 3.71)	0.41 (0.2 to 0.62)
<b>Tropical Latin America</b>	3.51 (3.28 to 3.8)	3.04 (2.87 to 3.25)	9.27 (8.59 to 9.99)	3.92 (3.63 to 4.22)	0.99 (0.8 to 1.18)	3.04 (2.93 to 3.14)	2.93 (2.8 to 3.03)	6.5 (6.07 to 6.86)	2.73 (2.55 to 2.89)	-0.18 (-0.31 to -0.05)
<b>Western Europe</b>	48.09 (45.12 to 50.89)	8.95 (8.44 to 9.43)	88.44 (75.34 to 101.72)	10.11 (8.65 to 11.61)	-0.01 (-0.23 to 0.22)	25.58 (24.59 to 26.21)	4.57 (4.4 to 4.68)	38.26 (34.53 to 40.64)	4.07 (3.74 to 4.29)	-0.81 (-0.99 to -0.63)
<b>Western Sub-Saharan Africa</b>	2.62 (2.01 to 3.53)	2 (1.63 to 2.44)	6.76 (5.11 to 9)	2.32 (1.88 to 2.85)	0.35 (0.24 to 0.47)	2.47 (1.95 to 3.09)	2.04 (1.71 to 2.43)	5.55 (4.54 to 6.6)	2.24 (1.88 to 2.62)	0.2 (0.1 to 0.3)

**Abbreviations:** ASR, age-standardised rate; EAPC, estimated annual percentage change; UI, uncertainty interval. CI, confidence interval.

**Supplementary Table S6.** The global incident cases, deaths, and their change trends of Hodgkin lymphoma from 1990 to 2019.

Regions	Incidence (95% UI)					1990-2019	Deaths (95% UI)			1990-2019
	1990		2019				1990	2019		
	Incident cases No.×10 <sup>3</sup>	ASR per 100000	Incident cases No.×10 <sup>3</sup>	ASR per 100000	EAPC No. (95%CI)	Deaths No.×10 <sup>3</sup>	ASR per 100000	Deaths No.×10 <sup>3</sup>	ASR per 100000	EAPC No. (95%CI)
<b>Global</b>	59.69 (48.25 to 64.24)	1.26 (1.02 to 1.35)	87.51 (77.94 to 101.43)	1.1 (0.98 to 1.27)	-0.47 (-0.53 to -0.41)	27.6 (21.66 to 30.23)	0.61 (0.48 to 0.66)	27.55 (23.68 to 31.81)	0.34 (0.29 to 0.4)	-2.08 (-2.17 to -1.98)
<b>High SDI</b>	23.7 (19.04 to 25.72)	2.57 (2.06 to 2.78)	33 (28.57 to 39.87)	2.51 (2.19 to 3.16)	-0.07 (-0.11 to -0.03)	4.82 (3.83 to 5.18)	0.49 (0.39 to 0.53)	3.88 (3.42 to 4.65)	0.25 (0.22 to 0.3)	-2.34 (-2.55 to -2.13)
<b>High-middle SDI</b>	16.15 (12.68 to 17.64)	1.39 (1.09 to 1.52)	21.99 (19.06 to 25.39)	1.36 (1.18 to 1.57)	-0.19 (-0.26 to -0.11)	7.76 (6.04 to 8.6)	0.69 (0.54 to 0.77)	5.57 (4.81 to 6.38)	0.31 (0.26 to 0.35)	-3.15 (-3.28 to -3.03)
<b>Middle SDI</b>	9.35 (6.9 to 10.61)	0.65 (0.48 to 0.74)	15.82 (13.31 to 18.54)	0.64 (0.54 to 0.75)	-0.09 (-0.27 to 0.09)	6.66 (4.86 to 7.61)	0.51 (0.38 to 0.58)	6.6 (5.53 to 7.67)	0.27 (0.22 to 0.31)	-2.29 (-2.4 to -2.17)
<b>Low-middle SDI</b>	6.91 (5.13 to 7.86)	0.76 (0.59 to 0.87)	10.02 (8.61 to 12.82)	0.6 (0.51 to 0.76)	-0.99 (-1.09 to -0.89)	5.45 (4.11 to 6.2)	0.66 (0.51 to 0.75)	6.56 (5.57 to 8.37)	0.41 (0.35 to 0.52)	-1.73 (-1.79 to -1.67)
<b>Low SDI</b>	3.55 (2.38 to 4.19)	0.93 (0.64 to 1.08)	6.63 (5.06 to 7.84)	0.75 (0.57 to 0.88)	-0.85 (-0.88 to -0.82)	2.9 (1.94 to 3.4)	0.83 (0.58 to 0.97)	4.91 (3.67 to 5.84)	0.61 (0.46 to 0.72)	-1.14 (-1.18 to -1.1)
<b>Andean Latin America</b>	0.2 (0.16 to 0.23)	0.67 (0.53 to 0.78)	0.39 (0.29 to 0.49)	0.63 (0.48 to 0.79)	-0.03 (-0.14 to 0.09)	0.15 (0.12 to 0.18)	0.57 (0.45 to 0.66)	0.2 (0.15 to 0.25)	0.35 (0.25 to 0.43)	-1.51 (-1.62 to -1.4)
<b>Australasia</b>	0.41 (0.34 to 0.48)	1.9 (1.55 to 2.2)	0.81 (0.62 to 1.06)	2.5 (1.91 to 3.34)	1.11 (1.01 to 1.22)	0.1 (0.09 to 0.12)	0.45 (0.38 to 0.52)	0.11 (0.09 to 0.13)	0.26 (0.22 to 0.31)	-1.64 (-1.91 to -1.36)
<b>Caribbean</b>	0.18 (0.16 to 0.25)	0.57 (0.49 to 0.77)	0.57 (0.35 to 0.71)	1.13 (0.7 to 1.41)	2.4 (1.62 to 3.18)	0.11 (0.09 to 0.14)	0.35 (0.31 to 0.46)	0.23 (0.15 to 0.28)	0.46 (0.3 to 0.56)	0.88 (0.29 to 1.47)
<b>Central Asia</b>	0.65 (0.54 to 0.76)	1.04 (0.88 to 1.2)	0.95 (0.8 to 1.1)	1.02 (0.86 to 1.18)	-0.38 (-0.48 to -0.28)	0.38 (0.32 to 0.44)	0.66 (0.56 to 0.76)	0.41 (0.35 to 0.47)	0.47 (0.4 to 0.54)	-1.49 (-1.68 to -1.3)

	0.74)	1.2)	1.11)	1.19)	to -0.27)	0.43)	0.76)	0.47)	0.54)	to -1.29)
<b>Central Europe</b>	2.72 (2.18 to 2.95)	2.07 (1.65 to 2.25)	2.68 (2.26 to 3.38)	2.09 (1.76 to 2.67)	-0.15 (-0.23 to -0.07)	1.39 (1.13 to 1.5)	1 (0.82 to 1.08)	0.71 (0.59 to 0.89)	0.42 (0.35 to 0.52)	-3.4 (-3.54 to -3.25)
<b>Central Latin America</b>	1.38 (1.22 to 1.61)	1.08 (0.95 to 1.26)	2.61 (2.18 to 3.29)	1.04 (0.87 to 1.31)	-0.15 (-0.28 to -0.01)	0.9 (0.8 to 1.04)	0.81 (0.71 to 0.93)	1.13 (0.94 to 1.37)	0.47 (0.39 to 0.57)	-1.9 (-2.1 to -1.7)
<b>Central Sub-Saharan Africa</b>	0.18 (0.13 to 0.23)	0.52 (0.39 to 0.66)	0.39 (0.29 to 0.5)	0.46 (0.33 to 0.6)	-0.34 (-0.37 to -0.31)	0.15 (0.11 to 0.19)	0.48 (0.36 to 0.61)	0.31 (0.23 to 0.4)	0.41 (0.29 to 0.53)	-0.46 (-0.51 to -0.41)
<b>East Asia</b>	6.83 (3.64 to 8.88)	0.64 (0.34 to 0.83)	9.9 (7.49 to 11.94)	0.58 (0.44 to 0.7)	-0.47 (-0.85 to -0.08)	5.02 (2.63 to 6.55)	0.51 (0.27 to 0.66)	2.81 (2.1 to 3.4)	0.15 (0.11 to 0.17)	-4.68 (-4.94 to -4.42)
<b>Eastern Europe</b>	4.96 (3.94 to 5.54)	2.1 (1.65 to 2.33)	5.71 (4.78 to 7.24)	2.61 (2.18 to 3.32)	0.55 (0.38 to 0.71)	2.04 (1.7 to 2.33)	0.81 (0.67 to 0.92)	1.41 (1.21 to 1.76)	0.53 (0.46 to 0.66)	-2.17 (-2.5 to -1.84)
<b>Eastern Sub-Saharan Africa</b>	1.31 (0.9 to 1.59)	0.95 (0.67 to 1.12)	2.52 (1.96 to 3.14)	0.79 (0.61 to 0.96)	-0.71 (-0.75 to -0.67)	1.04 (0.71 to 1.26)	0.83 (0.59 to 0.98)	1.83 (1.42 to 2.23)	0.65 (0.5 to 0.78)	-0.91 (-0.95 to -0.86)
<b>High-income Asia Pacific</b>	3.9 (3.56 to 4.78)	2.02 (1.83 to 2.48)	9.42 (6.52 to 11.24)	2.46 (1.79 to 2.89)	1.21 (1.03 to 1.38)	0.2 (0.18 to 0.25)	0.1 (0.09 to 0.13)	0.31 (0.22 to 0.34)	0.08 (0.06 to 0.09)	-0.25 (-0.38 to -0.12)
<b>High-income North America</b>	10.45 (7.96 to 11.3)	3.38 (2.57 to 3.65)	11.25 (9.15 to 15.61)	2.63 (2.12 to 3.76)	-1.04 (-1.14 to -0.94)	1.95 (1.54 to 2.1)	0.59 (0.47 to 0.64)	1.67 (1.49 to 2.1)	0.31 (0.28 to 0.41)	-2.24 (-2.38 to -2.1)
<b>North Africa and Middle East</b>	2.22 (1.87 to 2.89)	0.83 (0.69 to 1.14)	5.8 (4.66 to 6.96)	1.01 (0.83 to 1.22)	0.73 (0.62 to 0.83)	1.5 (1.24 to 2.04)	0.64 (0.52 to 0.92)	2.14 (1.78 to 2.77)	0.41 (0.35 to 0.54)	-1.45 (-1.49 to -1.41)
<b>Oceania</b>	0.02 (0.02 to 0.03)	0.45 (0.35 to 0.6)	0.04 (0.03 to 0.05)	0.39 (0.3 to 0.51)	-0.44 (-0.49 to -0.39)	0.02 (0.01 to 0.02)	0.36 (0.29 to 0.49)	0.03 (0.02 to 0.04)	0.29 (0.22 to 0.39)	-0.56 (-0.63 to -0.48)
<b>South Asia</b>	7.56 (5.08 to 8.78)	0.85 (0.59 to 0.97)	10.88 (9.05 to 13.93)	0.62 (0.51 to 0.79)	-1.27 (-1.36 to -1.19)	6 (4.12 to 6.91)	0.73 (0.53 to 0.84)	7.26 (5.94 to 9.3)	0.43 (0.35 to 0.56)	-1.97 (-2.04 to -1.91)



<b>Southeast Asia</b>	1.84 (1.57 to 2.44)	0.48 (0.41 to 0.65)	3.12 (2.44 to 4.5)	0.46 (0.36 to 0.66)	-0.25 (-0.37 to -0.14)	1.26 (1.07 to 1.7)	0.36 (0.31 to 0.5)	1.43 (1.11 to 2.12)	0.22 (0.17 to 0.32)	-1.77 (-1.8 to -1.74)
<b>Southern Latin America</b>	0.51 (0.43 to 0.59)	1.06 (0.9 to 1.23)	0.87 (0.66 to 1.14)	1.18 (0.9 to 1.55)	0.27 (0.06 to 0.48)	0.32 (0.27 to 0.37)	0.67 (0.56 to 0.78)	0.31 (0.27 to 0.37)	0.39 (0.34 to 0.48)	-1.9 (-2.14 to -1.67)
<b>Southern Sub-Saharan Africa</b>	0.17 (0.14 to 0.21)	0.4 (0.33 to 0.48)	0.29 (0.23 to 0.36)	0.4 (0.31 to 0.47)	-0.14 (-0.26 to -0.01)	0.12 (0.1 to 0.15)	0.32 (0.26 to 0.38)	0.19 (0.15 to 0.23)	0.28 (0.22 to 0.33)	-0.44 (-0.65 to -0.22)
<b>Tropical Latin America</b>	0.97 (0.84 to 1.11)	0.75 (0.65 to 0.85)	1.57 (1.34 to 1.89)	0.66 (0.57 to 0.8)	-0.24 (-0.33 to -0.15)	0.65 (0.57 to 0.74)	0.55 (0.47 to 0.63)	0.7 (0.6 to 0.84)	0.29 (0.25 to 0.35)	-2.04 (-2.16 to -1.92)
<b>Western Europe</b>	12.15 (9.43 to 13.22)	2.79 (2.16 to 3.03)	15.1 (12.84 to 18.7)	2.96 (2.51 to 3.74)	0.23 (0.13 to 0.32)	3.4 (2.73 to 3.7)	0.67 (0.54 to 0.73)	2.43 (2.08 to 2.91)	0.33 (0.29 to 0.4)	-2.42 (-2.62 to -2.22)
<b>Western Sub-Saharan Africa</b>	1.09 (0.52 to 1.55)	0.84 (0.4 to 1.21)	2.64 (1.13 to 4.14)	0.79 (0.34 to 1.21)	-0.11 (-0.21 to 0)	0.92 (0.44 to 1.31)	0.77 (0.36 to 1.1)	1.96 (0.82 to 3.02)	0.66 (0.29 to 0.99)	-0.45 (-0.53 to -0.37)

**Abbreviations:** ASR, age-standardised rate; EAPC, estimated annual percentage change; UI, uncertainty interval. CI, confidence interval.

**Supplementary Table S7.** The change of hematological malignancies between 1990 and 2019 at national level, both sexes.

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Afghanistan	Leukemia	Incidence	1.67	3.36	1.01	14.71	12.36	-0.4
Afghanistan	Leukemia	Deaths	1.06	2.12	1.01	11.28	10.01	-0.3
Afghanistan	Multiple myeloma	Incidence	0.11	0.19	0.71	1.56	1.54	-0.03
Afghanistan	Multiple myeloma	Deaths	0.11	0.17	0.62	1.52	1.46	-0.12
Afghanistan	Non-Hodgkin lymphoma	Incidence	0.93	1.97	1.13	12.46	13.36	0.37
Afghanistan	Non-Hodgkin lymphoma	Deaths	1	2	1.01	13.75	14.84	0.39
Afghanistan	Hodgkin lymphoma	Incidence	0.12	0.28	1.4	1.35	1.17	-0.57
Afghanistan	Hodgkin lymphoma	Deaths	0.1	0.22	1.12	1.25	1.03	-0.72
Albania	Leukemia	Incidence	0.2	0.28	0.39	6.69	9.39	1.39
Albania	Leukemia	Deaths	0.12	0.15	0.23	4.47	4.19	-0.1
Albania	Multiple myeloma	Incidence	0.01	0.04	1.37	0.72	0.83	0.75
Albania	Multiple myeloma	Deaths	0.01	0.03	1.28	0.65	0.68	0.43
Albania	Non-Hodgkin lymphoma	Incidence	0.06	0.13	1.14	2.22	3.43	1.76
Albania	Non-Hodgkin lymphoma	Deaths	0.04	0.06	0.56	1.74	1.63	0.01
Albania	Hodgkin lymphoma	Incidence	0.03	0.05	0.57	1.14	1.85	1.71
Albania	Hodgkin lymphoma	Deaths	0.02	0.01	-0.24	0.7	0.4	-2.08
Algeria	Leukemia	Incidence	1.14	1.51	0.32	5.54	4.2	-0.96
Algeria	Leukemia	Deaths	0.72	1.01	0.4	4.34	3.02	-1.22
Algeria	Multiple myeloma	Incidence	0.14	0.43	2.17	1.18	1.33	0.43
Algeria	Multiple myeloma	Deaths	0.12	0.35	1.92	1.11	1.14	0.14

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Algeria	Non-Hodgkin lymphoma	Incidence	0.92	2.15	1.34	5.27	6.31	0.68
Algeria	Non-Hodgkin lymphoma	Deaths	0.69	1.32	0.91	5.08	4.14	-0.63
Algeria	Hodgkin lymphoma	Incidence	0.35	0.67	0.92	1.61	1.63	0.05
Algeria	Hodgkin lymphoma	Deaths	0.21	0.22	0.08	1.11	0.58	-2.05
American Samoa	Leukemia	Incidence	0	0	0.22	4.3	3.77	-0.56
American Samoa	Leukemia	Deaths	0	0	0.36	3.53	2.96	-0.75
American Samoa	Multiple myeloma	Incidence	0	0	0.9	1.56	1.39	-0.57
American Samoa	Multiple myeloma	Deaths	0	0	0.88	1.41	1.22	-0.69
American Samoa	Non-Hodgkin lymphoma	Incidence	0	0	1.32	2.47	3.46	1.62
American Samoa	Non-Hodgkin lymphoma	Deaths	0	0	1.19	2.43	2.92	1.04
American Samoa	Hodgkin lymphoma	Incidence	0	0	0.85	0.22	0.28	1.02
American Samoa	Hodgkin lymphoma	Deaths	0	0	0.68	0.15	0.16	0.27
Andorra	Leukemia	Incidence	0.01	0.03	2.28	15.6	22.71	1.1
Andorra	Leukemia	Deaths	0	0.01	1.17	7.74	6.28	-0.8
Andorra	Multiple myeloma	Incidence	0	0.01	1.55	4.74	4.62	-0.17
Andorra	Multiple myeloma	Deaths	0	0	1.44	3.57	3.09	-0.57
Andorra	Non-Hodgkin lymphoma	Incidence	0.01	0.02	1.55	14.06	14.86	0.12
Andorra	Non-Hodgkin lymphoma	Deaths	0	0.01	1.19	6.78	5.66	-0.67
Andorra	Hodgkin lymphoma	Incidence	0	0	1.3	2.53	3.74	1.19
Andorra	Hodgkin lymphoma	Deaths	0	0	0.38	0.54	0.36	-1.51
Angola	Leukemia	Incidence	0.72	1.12	0.56	6.19	4.4	-1.17

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Angola	Leukemia	Deaths	0.35	0.62	0.76	4.16	3.31	-0.79
Angola	Multiple myeloma	Incidence	0.04	0.14	2.43	1.09	1.32	0.71
Angola	Multiple myeloma	Deaths	0.04	0.13	2.27	1.08	1.26	0.58
Angola	Non-Hodgkin lymphoma	Incidence	0.13	0.47	2.53	2.51	2.97	0.76
Angola	Non-Hodgkin lymphoma	Deaths	0.16	0.45	1.81	2.88	3.18	0.51
Angola	Hodgkin lymphoma	Incidence	0.04	0.08	1.29	0.56	0.44	-0.85
Angola	Hodgkin lymphoma	Deaths	0.03	0.06	1.11	0.52	0.39	-1.06
Antigua and Barbuda	Leukemia	Incidence	0	0.01	0.57	5.9	6.07	0.1
Antigua and Barbuda	Leukemia	Deaths	0	0	0.59	4.33	4.27	-0.15
Antigua and Barbuda	Multiple myeloma	Incidence	0	0	1.6	3.02	4.17	1.11
Antigua and Barbuda	Multiple myeloma	Deaths	0	0	1.3	2.45	3.1	0.82
Antigua and Barbuda	Non-Hodgkin lymphoma	Incidence	0	0.01	0.99	4.8	5.46	0.37
Antigua and Barbuda	Non-Hodgkin lymphoma	Deaths	0	0	0.6	3.98	3.55	-0.43
Antigua and Barbuda	Hodgkin lymphoma	Incidence	0	0	0.87	0.25	0.28	0.41
Antigua and Barbuda	Hodgkin lymphoma	Deaths	0	0	0.31	0.16	0.12	-0.97
Argentina	Leukemia	Incidence	2.54	3.52	0.39	7.75	7.1	-0.53
Argentina	Leukemia	Deaths	1.94	2.66	0.37	6.02	5.16	-0.76
Argentina	Multiple myeloma	Incidence	0.59	1.16	0.96	1.83	2.17	0.37
Argentina	Multiple myeloma	Deaths	0.52	0.93	0.8	1.6	1.71	0.05
Argentina	Non-Hodgkin lymphoma	Incidence	1.61	3.33	1.08	4.93	6.41	0.41
Argentina	Non-Hodgkin lymphoma	Deaths	1.36	2.2	0.62	4.22	4.15	-0.46

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Argentina	Hodgkin lymphoma	Incidence	0.34	0.54	0.61	1.04	1.11	-0.11
Argentina	Hodgkin lymphoma	Deaths	0.22	0.22	-0.01	0.69	0.43	-1.81
Armenia	Leukemia	Incidence	0.33	0.26	-0.21	9.79	7.62	-1.16
Armenia	Leukemia	Deaths	0.19	0.16	-0.18	6.07	4.34	-1.56
Armenia	Multiple myeloma	Incidence	0.02	0.04	1.24	0.57	0.85	1.79
Armenia	Multiple myeloma	Deaths	0.01	0.03	1.19	0.49	0.69	1.54
Armenia	Non-Hodgkin lymphoma	Incidence	0.05	0.12	1.49	1.53	3.15	3.24
Armenia	Non-Hodgkin lymphoma	Deaths	0.03	0.07	1.02	1.17	1.74	1.93
Armenia	Hodgkin lymphoma	Incidence	0.01	0.02	0.94	0.32	0.62	2.5
Armenia	Hodgkin lymphoma	Deaths	0.01	0.01	0.24	0.21	0.21	0.09
Australia	Leukemia	Incidence	1.76	3.88	1.21	9.43	10.08	-0.04
Australia	Leukemia	Deaths	1.13	1.99	0.75	6.02	4.79	-0.95
Australia	Multiple myeloma	Incidence	0.81	2.18	1.69	4.13	5.18	0.61
Australia	Multiple myeloma	Deaths	0.55	1.3	1.37	2.78	2.96	0.1
Australia	Non-Hodgkin lymphoma	Incidence	2.57	4.7	0.83	13.29	11.33	-1.21
Australia	Non-Hodgkin lymphoma	Deaths	1.27	1.97	0.56	6.55	4.57	-1.86
Australia	Hodgkin lymphoma	Incidence	0.36	0.72	0.97	2.02	2.63	1.11
Australia	Hodgkin lymphoma	Deaths	0.08	0.09	0.04	0.44	0.25	-1.72
Austria	Leukemia	Incidence	1.02	2.13	1.09	10.09	14.84	1.23
Austria	Leukemia	Deaths	0.59	0.83	0.41	5.26	4.64	-0.26
Austria	Multiple myeloma	Incidence	0.3	0.61	1.01	2.53	3.39	0.97

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Austria	Multiple myeloma	Deaths	0.23	0.43	0.88	1.88	2.29	0.67
Austria	Non-Hodgkin lymphoma	Incidence	0.77	1.58	1.04	6.83	9.05	0.97
Austria	Non-Hodgkin lymphoma	Deaths	0.42	0.69	0.64	3.56	3.71	0.23
Austria	Hodgkin lymphoma	Incidence	0.27	0.22	-0.2	2.93	1.93	-2.08
Austria	Hodgkin lymphoma	Deaths	0.09	0.04	-0.58	0.81	0.24	-4.6
Azerbaijan	Leukemia	Incidence	0.85	0.83	-0.03	10.97	8.88	-1.01
Azerbaijan	Leukemia	Deaths	0.38	0.44	0.14	5.41	4.62	-0.89
Azerbaijan	Multiple myeloma	Incidence	0.03	0.07	1.38	0.55	0.7	0.93
Azerbaijan	Multiple myeloma	Deaths	0.02	0.06	1.3	0.49	0.63	0.92
Azerbaijan	Non-Hodgkin lymphoma	Incidence	0.09	0.26	2.05	1.37	2.72	2.9
Azerbaijan	Non-Hodgkin lymphoma	Deaths	0.06	0.17	1.65	1.11	1.8	2.14
Azerbaijan	Hodgkin lymphoma	Incidence	0.09	0.15	0.67	1.22	1.35	-0.2
Azerbaijan	Hodgkin lymphoma	Deaths	0.05	0.06	0.19	0.8	0.6	-1.55
Bahamas	Leukemia	Incidence	0.01	0.02	0.72	5.35	5.07	-0.11
Bahamas	Leukemia	Deaths	0.01	0.01	0.74	4.1	3.67	-0.32
Bahamas	Multiple myeloma	Incidence	0.01	0.03	1.94	5.64	6.49	0.74
Bahamas	Multiple myeloma	Deaths	0.01	0.02	1.75	4.56	4.91	0.51
Bahamas	Non-Hodgkin lymphoma	Incidence	0.01	0.02	1.04	5.54	5.73	0.29
Bahamas	Non-Hodgkin lymphoma	Deaths	0.01	0.02	0.82	4.72	3.95	-0.48
Bahamas	Hodgkin lymphoma	Incidence	0	0	0.69	0.75	0.74	-0.18
Bahamas	Hodgkin lymphoma	Deaths	0	0	0.38	0.47	0.34	-1.33

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Bahrain	Leukemia	Incidence	0.02	0.07	2.11	8.98	7.67	-1.12
Bahrain	Leukemia	Deaths	0.02	0.04	1.53	8.01	5.49	-1.88
Bahrain	Multiple myeloma	Incidence	0	0.02	3.38	2.64	2.01	-1.14
Bahrain	Multiple myeloma	Deaths	0	0.01	2.67	2.42	1.65	-1.52
Bahrain	Non-Hodgkin lymphoma	Incidence	0.01	0.07	5.49	4.26	7.11	2.54
Bahrain	Non-Hodgkin lymphoma	Deaths	0.01	0.03	3.2	4.15	4.1	0.55
Bahrain	Hodgkin lymphoma	Incidence	0.01	0.02	2.33	1.73	1.45	-0.97
Bahrain	Hodgkin lymphoma	Deaths	0	0.01	0.42	1.28	0.43	-4.38
Bangladesh	Leukemia	Incidence	5.71	4.54	-0.21	5.47	3.2	-1.89
Bangladesh	Leukemia	Deaths	3.59	3.49	-0.03	4.25	2.55	-1.79
Bangladesh	Multiple myeloma	Incidence	0.34	0.98	1.85	0.73	0.75	0.16
Bangladesh	Multiple myeloma	Deaths	0.32	0.86	1.69	0.7	0.67	-0.06
Bangladesh	Non-Hodgkin lymphoma	Incidence	1.01	2.67	1.65	1.47	1.86	0.85
Bangladesh	Non-Hodgkin lymphoma	Deaths	0.93	2.14	1.3	1.51	1.61	0.3
Bangladesh	Hodgkin lymphoma	Incidence	0.83	0.83	0.01	0.96	0.53	-2.18
Bangladesh	Hodgkin lymphoma	Deaths	0.65	0.53	-0.2	0.84	0.35	-3.04
Barbados	Leukemia	Incidence	0.02	0.03	0.46	7.23	7.25	0.03
Barbados	Leukemia	Deaths	0.01	0.02	0.47	5.3	5.14	-0.16
Barbados	Multiple myeloma	Incidence	0.02	0.04	1.39	6.13	8.57	1.22
Barbados	Multiple myeloma	Deaths	0.01	0.03	1.14	4.84	6.17	0.88
Barbados	Non-Hodgkin lymphoma	Incidence	0.02	0.04	0.72	8.45	9.61	0.29

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Barbados	Non-Hodgkin lymphoma	Deaths	0.02	0.03	0.43	6.53	5.87	-0.49
Barbados	Hodgkin lymphoma	Incidence	0	0	0.33	0.79	0.84	-0.22
Barbados	Hodgkin lymphoma	Deaths	0	0	0	0.45	0.31	-1.63
Belarus	Leukemia	Incidence	1.21	1.22	0.01	11.14	9.31	-0.89
Belarus	Leukemia	Deaths	0.85	0.64	-0.24	7.46	4.58	-1.93
Belarus	Multiple myeloma	Incidence	0.12	0.36	1.97	0.92	2.26	3.25
Belarus	Multiple myeloma	Deaths	0.09	0.23	1.54	0.71	1.46	2.61
Belarus	Non-Hodgkin lymphoma	Incidence	0.25	0.67	1.75	2.15	5.06	3.96
Belarus	Non-Hodgkin lymphoma	Deaths	0.15	0.33	1.2	1.27	2.3	2.91
Belarus	Hodgkin lymphoma	Incidence	0.21	0.32	0.54	1.88	3.34	2.11
Belarus	Hodgkin lymphoma	Deaths	0.09	0.06	-0.31	0.78	0.51	-1.66
Belgium	Leukemia	Incidence	1.52	2.63	0.72	11.73	13.97	0.5
Belgium	Leukemia	Deaths	1.03	1.24	0.21	7.06	5.26	-1.05
Belgium	Multiple myeloma	Incidence	0.58	0.95	0.63	3.69	4.11	0.3
Belgium	Multiple myeloma	Deaths	0.46	0.7	0.51	2.9	2.83	-0.2
Belgium	Non-Hodgkin lymphoma	Incidence	1.22	2.16	0.76	8.42	9.65	0.06
Belgium	Non-Hodgkin lymphoma	Deaths	0.67	0.95	0.41	4.47	3.98	-0.8
Belgium	Hodgkin lymphoma	Incidence	0.27	0.32	0.19	2.3	2.42	0.17
Belgium	Hodgkin lymphoma	Deaths	0.09	0.05	-0.38	0.63	0.28	-2.77
Belize	Leukemia	Incidence	0.01	0.02	0.67	5.35	4.79	-0.53
Belize	Leukemia	Deaths	0	0.01	1.28	3.28	3.34	-0.13



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Belize	Multiple myeloma	Incidence	0	0	3.36	0.8	1.17	1.15
Belize	Multiple myeloma	Deaths	0	0	2.99	0.68	0.92	0.88
Belize	Non-Hodgkin lymphoma	Incidence	0	0.01	2.69	1.81	2.6	0.97
Belize	Non-Hodgkin lymphoma	Deaths	0	0.01	2.08	1.71	1.98	0.28
Belize	Hodgkin lymphoma	Incidence	0	0	2.6	0.7	0.91	0.16
Belize	Hodgkin lymphoma	Deaths	0	0	1.78	0.51	0.51	-0.76
Benin	Leukemia	Incidence	0.2	0.5	1.56	4.31	4.64	0.52
Benin	Leukemia	Deaths	0.12	0.3	1.5	3.4	3.55	0.33
Benin	Multiple myeloma	Incidence	0.02	0.04	1.77	0.76	0.86	0.48
Benin	Multiple myeloma	Deaths	0.01	0.04	1.66	0.73	0.81	0.4
Benin	Non-Hodgkin lymphoma	Incidence	0.07	0.2	1.87	2.43	2.63	-0.06
Benin	Non-Hodgkin lymphoma	Deaths	0.07	0.18	1.49	2.62	2.7	-0.21
Benin	Hodgkin lymphoma	Incidence	0.01	0.03	1.63	0.33	0.33	-0.03
Benin	Hodgkin lymphoma	Deaths	0.01	0.02	1.46	0.29	0.28	-0.15
Bermuda	Leukemia	Incidence	0	0.01	0.36	8.14	6.97	-0.42
Bermuda	Leukemia	Deaths	0	0	0.11	6.02	3.59	-1.79
Bermuda	Multiple myeloma	Incidence	0	0.01	1.24	3.99	4.18	-0.03
Bermuda	Multiple myeloma	Deaths	0	0	0.9	3	2.6	-0.69
Bermuda	Non-Hodgkin lymphoma	Incidence	0.01	0.01	0.41	10.6	8.66	-0.68
Bermuda	Non-Hodgkin lymphoma	Deaths	0	0	-0.01	7.46	3.89	-2.21
Bermuda	Hodgkin lymphoma	Incidence	0	0	1.42	1.11	2.31	2.35

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Bermuda	Hodgkin lymphoma	Deaths	0	0	0.11	0.52	0.36	-1.75
Bhutan	Leukemia	Incidence	0.03	0.03	0.02	4.73	4.2	-0.61
Bhutan	Leukemia	Deaths	0.02	0.02	0.24	3.71	3.32	-0.52
Bhutan	Multiple myeloma	Incidence	0	0.01	2.04	0.82	1.12	1.07
Bhutan	Multiple myeloma	Deaths	0	0.01	1.92	0.8	1.02	0.85
Bhutan	Non-Hodgkin lymphoma	Incidence	0	0.02	2.51	1.38	2.68	2.35
Bhutan	Non-Hodgkin lymphoma	Deaths	0	0.01	1.9	1.47	2.39	1.76
Bhutan	Hodgkin lymphoma	Incidence	0	0	0.21	0.74	0.55	-1.16
Bhutan	Hodgkin lymphoma	Deaths	0	0	-0.08	0.65	0.36	-2.19
Bolivia (Plurinational State of)	Leukemia	Incidence	0.64	0.95	0.47	10.1	8.81	-0.57
Bolivia (Plurinational State of)	Leukemia	Deaths	0.38	0.67	0.76	7.36	6.84	-0.32
Bolivia (Plurinational State of)	Multiple myeloma	Incidence	0.06	0.19	2.48	1.76	2.22	0.78
Bolivia (Plurinational State of)	Multiple myeloma	Deaths	0.05	0.17	2.26	1.71	2.01	0.56
Bolivia (Plurinational State of)	Non-Hodgkin lymphoma	Incidence	0.13	0.48	2.7	3.41	5.23	1.37
Bolivia (Plurinational State of)	Non-Hodgkin lymphoma	Deaths	0.14	0.47	2.34	3.81	5.34	1.13
Bolivia (Plurinational State of)	Hodgkin lymphoma	Incidence	0.05	0.08	0.64	1	0.76	-0.98
Bolivia (Plurinational State of)	Hodgkin lymphoma	Deaths	0.04	0.06	0.43	0.91	0.59	-1.46

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Bosnia and Herzegovina	Leukemia	Incidence	0.2	0.36	0.79	4.73	7.16	1.69
Bosnia and Herzegovina	Leukemia	Deaths	0.15	0.22	0.47	3.65	4.22	0.6
Bosnia and Herzegovina	Multiple myeloma	Incidence	0.05	0.09	0.76	1.19	1.4	0.57
Bosnia and Herzegovina	Multiple myeloma	Deaths	0.04	0.07	0.75	1.05	1.19	0.33
Bosnia and Herzegovina	Non-Hodgkin lymphoma	Incidence	0.09	0.24	1.67	2.02	4.76	3.67
Bosnia and Herzegovina	Non-Hodgkin lymphoma	Deaths	0.07	0.13	1.05	1.54	2.46	2.02
Bosnia and Herzegovina	Hodgkin lymphoma	Incidence	0.05	0.06	0.32	1.02	1.62	1.76
Bosnia and Herzegovina	Hodgkin lymphoma	Deaths	0.03	0.02	-0.14	0.64	0.48	-1.3
Botswana	Leukemia	Incidence	0.04	0.1	1.74	4.32	5.85	0.82
Botswana	Leukemia	Deaths	0.03	0.06	1.48	3.62	4.19	0.2
Botswana	Multiple myeloma	Incidence	0.01	0.03	2.17	1.76	2.28	0.47
Botswana	Multiple myeloma	Deaths	0.01	0.03	1.92	1.65	2.01	0.24
Botswana	Non-Hodgkin lymphoma	Incidence	0.01	0.05	2.87	1.74	2.78	0.98
Botswana	Non-Hodgkin lymphoma	Deaths	0.01	0.04	2.22	1.82	2.42	0.43
Botswana	Hodgkin lymphoma	Incidence	0	0	1.48	0.14	0.15	-0.34
Botswana	Hodgkin lymphoma	Deaths	0	0	0.85	0.12	0.09	-1.28
Brazil	Leukemia	Incidence	9.09	11.99	0.32	6.87	5.52	-0.6
Brazil	Leukemia	Deaths	5.66	8.8	0.56	4.87	3.96	-0.58
Brazil	Multiple myeloma	Incidence	1.28	4.94	2.86	1.42	2.08	1.31
Brazil	Multiple myeloma	Deaths	1.09	3.96	2.65	1.24	1.69	1.08
Brazil	Non-Hodgkin lymphoma	Incidence	3.45	9.04	1.62	3.07	3.92	0.96

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Brazil	Non-Hodgkin lymphoma	Deaths	2.99	6.33	1.12	2.95	2.73	-0.21
Brazil	Hodgkin lymphoma	Incidence	0.95	1.52	0.59	0.76	0.66	-0.27
Brazil	Hodgkin lymphoma	Deaths	0.64	0.67	0.06	0.56	0.29	-2.08
Brunei Darussalam	Leukemia	Incidence	0.02	0.03	0.93	8.79	9.2	0.52
Brunei Darussalam	Leukemia	Deaths	0.01	0.02	0.76	6.38	5.63	-0.06
Brunei Darussalam	Multiple myeloma	Incidence	0	0.01	3.43	2.56	3.68	2.18
Brunei Darussalam	Multiple myeloma	Deaths	0	0.01	3	2.25	3.01	1.95
Brunei Darussalam	Non-Hodgkin lymphoma	Incidence	0.01	0.04	1.87	10.07	13.13	1.48
Brunei Darussalam	Non-Hodgkin lymphoma	Deaths	0.01	0.02	1.47	8.24	8.41	0.73
Brunei Darussalam	Hodgkin lymphoma	Incidence	0	0.01	4.6	1.39	3.4	3.95
Brunei Darussalam	Hodgkin lymphoma	Deaths	0	0	1.76	0.37	0.45	1.6
Bulgaria	Leukemia	Incidence	0.73	0.84	0.15	7.82	8.17	0.6
Bulgaria	Leukemia	Deaths	0.49	0.56	0.16	4.63	4.75	0.66
Bulgaria	Multiple myeloma	Incidence	0.1	0.18	0.75	0.82	1.37	1.89
Bulgaria	Multiple myeloma	Deaths	0.08	0.14	0.69	0.64	0.97	1.63
Bulgaria	Non-Hodgkin lymphoma	Incidence	0.36	0.62	0.72	3.42	5.61	2.16
Bulgaria	Non-Hodgkin lymphoma	Deaths	0.23	0.35	0.52	2.08	2.89	1.56
Bulgaria	Hodgkin lymphoma	Incidence	0.18	0.17	-0.1	1.96	2.12	0.42
Bulgaria	Hodgkin lymphoma	Deaths	0.09	0.06	-0.34	0.87	0.58	-1.31
Burkina Faso	Leukemia	Incidence	0.36	1.06	1.97	4.02	5.06	0.95
Burkina Faso	Leukemia	Deaths	0.22	0.6	1.69	3.2	3.73	0.62

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Burkina Faso	Multiple myeloma	Incidence	0.04	0.09	1.41	0.81	0.95	0.49
Burkina Faso	Multiple myeloma	Deaths	0.03	0.08	1.32	0.79	0.89	0.39
Burkina Faso	Non-Hodgkin lymphoma	Incidence	0.12	0.35	1.84	2.13	2.56	0.22
Burkina Faso	Non-Hodgkin lymphoma	Deaths	0.13	0.33	1.5	2.36	2.67	0.04
Burkina Faso	Hodgkin lymphoma	Incidence	0.02	0.05	1.57	0.33	0.35	0.21
Burkina Faso	Hodgkin lymphoma	Deaths	0.02	0.04	1.38	0.3	0.31	0.06
Burundi	Leukemia	Incidence	0.37	0.52	0.41	5.36	4.49	-0.42
Burundi	Leukemia	Deaths	0.19	0.27	0.46	3.7	3.26	-0.41
Burundi	Multiple myeloma	Incidence	0.04	0.06	0.59	1.57	1.3	-0.92
Burundi	Multiple myeloma	Deaths	0.04	0.05	0.53	1.56	1.27	-0.98
Burundi	Non-Hodgkin lymphoma	Incidence	0.07	0.14	0.91	2.61	2.43	-0.38
Burundi	Non-Hodgkin lymphoma	Deaths	0.08	0.14	0.67	3	2.73	-0.47
Burundi	Hodgkin lymphoma	Incidence	0.04	0.08	1.01	0.93	0.87	-0.35
Burundi	Hodgkin lymphoma	Deaths	0.03	0.06	0.9	0.81	0.73	-0.5
Cabo Verde	Leukemia	Incidence	0.02	0.03	0.69	4.4	5.45	0.23
Cabo Verde	Leukemia	Deaths	0.01	0.02	0.94	3.13	4.04	0.29
Cabo Verde	Multiple myeloma	Incidence	0	0	2.25	0.54	0.93	1.33
Cabo Verde	Multiple myeloma	Deaths	0	0	1.97	0.49	0.81	1.05
Cabo Verde	Non-Hodgkin lymphoma	Incidence	0	0.02	5.23	1.28	4.45	3.74
Cabo Verde	Non-Hodgkin lymphoma	Deaths	0	0.02	3.67	1.28	3.3	2.64
Cabo Verde	Hodgkin lymphoma	Incidence	0	0	2.09	0.1	0.17	1.31

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Cabo Verde	Hodgkin lymphoma	Deaths	0	0	1.38	0.08	0.11	0.26
Cambodia	Leukemia	Incidence	1.28	1.2	-0.06	11.91	8.24	-1.32
Cambodia	Leukemia	Deaths	0.65	0.78	0.2	8.08	5.92	-1.17
Cambodia	Multiple myeloma	Incidence	0.04	0.13	2.29	0.87	1.09	0.73
Cambodia	Multiple myeloma	Deaths	0.04	0.11	2.11	0.84	0.99	0.52
Cambodia	Non-Hodgkin lymphoma	Incidence	0.13	0.38	1.94	2.06	2.84	1.14
Cambodia	Non-Hodgkin lymphoma	Deaths	0.13	0.35	1.66	2.19	2.78	0.88
Cambodia	Hodgkin lymphoma	Incidence	0.04	0.06	0.49	0.6	0.43	-1.19
Cambodia	Hodgkin lymphoma	Deaths	0.03	0.04	0.21	0.52	0.3	-1.95
Cameroon	Leukemia	Incidence	0.35	1.1	2.15	4.28	4.96	0.69
Cameroon	Leukemia	Deaths	0.23	0.69	1.99	3.53	3.81	0.4
Cameroon	Multiple myeloma	Incidence	0.04	0.13	2.05	0.98	1.12	0.45
Cameroon	Multiple myeloma	Deaths	0.04	0.12	1.92	0.95	1.04	0.32
Cameroon	Non-Hodgkin lymphoma	Incidence	0.23	0.82	2.59	3.28	3.8	0.43
Cameroon	Non-Hodgkin lymphoma	Deaths	0.19	0.54	1.91	3.16	3.3	0.08
Cameroon	Hodgkin lymphoma	Incidence	0.02	0.06	1.94	0.3	0.29	-0.25
Cameroon	Hodgkin lymphoma	Deaths	0.02	0.05	1.59	0.27	0.23	-0.56
Canada	Leukemia	Incidence	3.86	8.44	1.19	12.95	15.1	0.57
Canada	Leukemia	Deaths	1.99	3.33	0.67	6.34	4.96	-0.75
Canada	Multiple myeloma	Incidence	1.45	3.34	1.3	4.46	4.82	0.06
Canada	Multiple myeloma	Deaths	0.95	2	1.11	2.9	2.79	-0.34

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Canada	Non-Hodgkin lymphoma	Incidence	4.1	8.61	1.1	12.86	12.97	-0.44
Canada	Non-Hodgkin lymphoma	Deaths	2.03	3.59	0.77	6.34	5.16	-1.2
Canada	Hodgkin lymphoma	Incidence	0.88	1.37	0.55	2.96	3.25	0.56
Canada	Hodgkin lymphoma	Deaths	0.15	0.14	-0.06	0.48	0.26	-2.05
Central African Republic	Leukemia	Incidence	0.16	0.23	0.48	5.81	5.02	-0.28
Central African Republic	Leukemia	Deaths	0.09	0.14	0.56	4.26	3.78	-0.31
Central African Republic	Multiple myeloma	Incidence	0.02	0.03	0.7	1.35	1.25	-0.23
Central African Republic	Multiple myeloma	Deaths	0.02	0.03	0.68	1.35	1.25	-0.25
Central African Republic	Non-Hodgkin lymphoma	Incidence	0.04	0.07	0.8	2.47	2.29	-0.15
Central African Republic	Non-Hodgkin lymphoma	Deaths	0.04	0.07	0.72	2.76	2.53	-0.2
Central African Republic	Hodgkin lymphoma	Incidence	0.01	0.02	0.87	0.66	0.64	-0.18
Central African Republic	Hodgkin lymphoma	Deaths	0.01	0.02	0.86	0.62	0.6	-0.18
Chad	Leukemia	Incidence	0.21	0.66	2.11	3.7	4.65	1.04
Chad	Leukemia	Deaths	0.13	0.39	1.9	2.94	3.62	0.92
Chad	Multiple myeloma	Incidence	0.02	0.04	1.29	0.64	0.73	0.55
Chad	Multiple myeloma	Deaths	0.02	0.04	1.21	0.62	0.7	0.51
Chad	Non-Hodgkin lymphoma	Incidence	0.07	0.23	2.16	1.96	2.52	0.63

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Chad	Non-Hodgkin lymphoma	Deaths	0.08	0.21	1.69	2.14	2.64	0.47
Chad	Hodgkin lymphoma	Incidence	0.01	0.04	1.89	0.32	0.38	0.7
Chad	Hodgkin lymphoma	Deaths	0.01	0.03	1.75	0.29	0.35	0.69
Chile	Leukemia	Incidence	0.76	1.5	0.97	6.35	7.29	0.85
Chile	Leukemia	Deaths	0.54	0.9	0.66	4.8	4.13	-0.3
Chile	Multiple myeloma	Incidence	0.26	0.85	2.3	2.61	3.52	0.97
Chile	Multiple myeloma	Deaths	0.22	0.65	1.98	2.23	2.67	0.47
Chile	Non-Hodgkin lymphoma	Incidence	0.52	1.52	1.92	4.74	6.65	1.19
Chile	Non-Hodgkin lymphoma	Deaths	0.4	0.83	1.09	3.86	3.56	-0.36
Chile	Hodgkin lymphoma	Incidence	0.12	0.26	1.13	1.02	1.31	1.29
Chile	Hodgkin lymphoma	Deaths	0.07	0.07	-0.02	0.6	0.3	-2.19
China	Leukemia	Incidence	142.72	154.65	0.08	12.71	10.47	-1.06
China	Leukemia	Deaths	66.82	60.38	-0.1	6.28	3.67	-2.05
China	Multiple myeloma	Incidence	6.07	18.79	2.09	0.7	0.93	1.04
China	Multiple myeloma	Deaths	5.34	13.42	1.51	0.64	0.67	0.17
China	Non-Hodgkin lymphoma	Incidence	20.08	91.95	3.58	2.04	4.99	3.72
China	Non-Hodgkin lymphoma	Deaths	16.44	44.31	1.7	1.82	2.32	1.2
China	Hodgkin lymphoma	Incidence	6.64	9.47	0.43	0.65	0.57	-0.54
China	Hodgkin lymphoma	Deaths	4.95	2.71	-0.45	0.52	0.15	-4.77
Colombia	Leukemia	Incidence	2.21	3.37	0.52	7.48	6.98	-0.15
Colombia	Leukemia	Deaths	1.37	2.19	0.6	5.32	4.39	-0.61



Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Colombia	Multiple myeloma	Incidence	0.23	0.94	3.02	1.33	1.78	0.97
Colombia	Multiple myeloma	Deaths	0.2	0.72	2.62	1.16	1.36	0.52
Colombia	Non-Hodgkin lymphoma	Incidence	0.79	2.52	2.17	3.38	4.94	1.5
Colombia	Non-Hodgkin lymphoma	Deaths	0.65	1.51	1.34	3.11	2.91	-0.04
Colombia	Hodgkin lymphoma	Incidence	0.26	0.51	0.97	0.96	1.01	0.1
Colombia	Hodgkin lymphoma	Deaths	0.16	0.18	0.1	0.68	0.35	-2.36
Comoros	Leukemia	Incidence	0.02	0.03	0.14	4.51	4.33	-0.06
Comoros	Leukemia	Deaths	0.01	0.02	0.42	3.12	3.11	-0.04
Comoros	Multiple myeloma	Incidence	0	0.01	1.45	1.11	1.24	0.28
Comoros	Multiple myeloma	Deaths	0	0.01	1.36	1.11	1.2	0.16
Comoros	Non-Hodgkin lymphoma	Incidence	0.01	0.01	1.35	2.44	2.77	0.33
Comoros	Non-Hodgkin lymphoma	Deaths	0.01	0.02	1.23	2.83	3.1	0.25
Comoros	Hodgkin lymphoma	Incidence	0	0	0.89	0.73	0.74	-0.36
Comoros	Hodgkin lymphoma	Deaths	0	0	0.77	0.65	0.6	-0.63
Congo	Leukemia	Incidence	0.12	0.16	0.33	5.51	4.04	-1.1
Congo	Leukemia	Deaths	0.07	0.11	0.53	4.24	3.27	-0.96
Congo	Multiple myeloma	Incidence	0.02	0.04	1.29	1.53	1.45	-0.2
Congo	Multiple myeloma	Deaths	0.02	0.03	1.19	1.5	1.39	-0.31
Congo	Non-Hodgkin lymphoma	Incidence	0.04	0.1	1.34	3.35	3.2	-0.16
Congo	Non-Hodgkin lymphoma	Deaths	0.05	0.1	1.11	3.72	3.43	-0.31
Congo	Hodgkin lymphoma	Incidence	0.01	0.02	0.8	0.57	0.42	-1.22

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Congo	Hodgkin lymphoma	Deaths	0.01	0.01	0.7	0.52	0.37	-1.43
Cook Islands	Leukemia	Incidence	0	0	-0.01	4.36	3.11	-1.19
Cook Islands	Leukemia	Deaths	0	0	0.13	3.33	2.34	-1.21
Cook Islands	Multiple myeloma	Incidence	0	0	0.93	0.84	0.84	-0.02
Cook Islands	Multiple myeloma	Deaths	0	0	0.88	0.71	0.66	-0.2
Cook Islands	Non-Hodgkin lymphoma	Incidence	0	0	1.03	2.48	3.24	1.06
Cook Islands	Non-Hodgkin lymphoma	Deaths	0	0	0.73	1.93	1.93	0.16
Cook Islands	Hodgkin lymphoma	Incidence	0	0	0.47	0.44	0.52	0.95
Cook Islands	Hodgkin lymphoma	Deaths	0	0	0.02	0.2	0.14	-0.86
Costa Rica	Leukemia	Incidence	0.19	0.4	1.09	7.6	8.05	0.19
Costa Rica	Leukemia	Deaths	0.14	0.25	0.86	6.03	5.11	-0.67
Costa Rica	Multiple myeloma	Incidence	0.03	0.16	3.91	1.84	3.03	1.77
Costa Rica	Multiple myeloma	Deaths	0.03	0.12	3.58	1.53	2.33	1.47
Costa Rica	Non-Hodgkin lymphoma	Incidence	0.12	0.4	2.28	5.79	7.97	1.39
Costa Rica	Non-Hodgkin lymphoma	Deaths	0.08	0.23	1.76	4.26	4.46	0.35
Costa Rica	Hodgkin lymphoma	Incidence	0.05	0.12	1.37	1.94	2.46	0.86
Costa Rica	Hodgkin lymphoma	Deaths	0.02	0.04	0.59	0.94	0.69	-1.15
Côte d'Ivoire	Leukemia	Incidence	0.41	0.87	1.14	4.24	4.35	0.25
Côte d'Ivoire	Leukemia	Deaths	0.26	0.57	1.21	3.47	3.48	0.1
Côte d'Ivoire	Multiple myeloma	Incidence	0.03	0.09	1.81	0.82	0.88	0.12
Côte d'Ivoire	Multiple myeloma	Deaths	0.03	0.08	1.77	0.79	0.83	0.07

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Côte d'Ivoire	Non-Hodgkin lymphoma	Incidence	0.2	0.48	1.42	3.06	2.98	-0.62
Côte d'Ivoire	Non-Hodgkin lymphoma	Deaths	0.19	0.43	1.27	3.23	3.04	-0.73
Côte d'Ivoire	Hodgkin lymphoma	Incidence	0.03	0.06	1.29	0.33	0.33	-0.14
Côte d'Ivoire	Hodgkin lymphoma	Deaths	0.02	0.05	1.25	0.3	0.28	-0.21
Croatia	Leukemia	Incidence	0.59	0.93	0.58	10.25	12.74	1.05
Croatia	Leukemia	Deaths	0.35	0.41	0.17	5.93	4.81	-0.59
Croatia	Multiple myeloma	Incidence	0.14	0.27	0.95	2.15	3.08	1.54
Croatia	Multiple myeloma	Deaths	0.11	0.2	0.91	1.66	2.2	1.28
Croatia	Non-Hodgkin lymphoma	Incidence	0.36	0.69	0.94	6	8.74	1.57
Croatia	Non-Hodgkin lymphoma	Deaths	0.2	0.32	0.58	3.33	3.76	0.66
Croatia	Hodgkin lymphoma	Incidence	0.16	0.16	0.02	2.9	2.92	0.42
Croatia	Hodgkin lymphoma	Deaths	0.04	0.02	-0.5	0.67	0.28	-2.72
Cuba	Leukemia	Incidence	0.74	0.99	0.34	7.06	6.47	-0.38
Cuba	Leukemia	Deaths	0.55	0.66	0.19	5.25	4	-0.98
Cuba	Multiple myeloma	Incidence	0.26	0.59	1.25	2.55	3.12	0.59
Cuba	Multiple myeloma	Deaths	0.2	0.4	0.99	1.93	2.07	0.14
Cuba	Non-Hodgkin lymphoma	Incidence	0.75	1.1	0.46	7.04	6.76	-0.04
Cuba	Non-Hodgkin lymphoma	Deaths	0.5	0.63	0.25	4.73	3.58	-0.84
Cuba	Hodgkin lymphoma	Incidence	0.05	0.31	5.61	0.41	2.32	5.86
Cuba	Hodgkin lymphoma	Deaths	0.02	0.1	3.81	0.19	0.64	3.96
Cyprus	Leukemia	Incidence	0.06	0.26	3.15	8.25	15.82	3.01

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Cyprus	Leukemia	Deaths	0.04	0.1	1.26	5.95	5.61	0.05
Cyprus	Multiple myeloma	Incidence	0.02	0.07	1.73	2.97	3.32	0.45
Cyprus	Multiple myeloma	Deaths	0.02	0.04	1.3	2.51	2.29	-0.37
Cyprus	Non-Hodgkin lymphoma	Incidence	0.07	0.19	1.62	9.3	10.37	0.09
Cyprus	Non-Hodgkin lymphoma	Deaths	0.05	0.08	0.68	6.39	4.36	-1.79
Cyprus	Hodgkin lymphoma	Incidence	0.01	0.03	2.03	1.32	2.2	1.74
Cyprus	Hodgkin lymphoma	Deaths	0	0	0.04	0.56	0.27	-3.13
Czechia	Leukemia	Incidence	1.23	2.11	0.71	9.88	11.39	0.34
Czechia	Leukemia	Deaths	0.91	1.04	0.14	7.05	5.07	-1.18
Czechia	Multiple myeloma	Incidence	0.37	0.62	0.69	2.63	2.92	0.18
Czechia	Multiple myeloma	Deaths	0.31	0.49	0.57	2.24	2.26	-0.17
Czechia	Non-Hodgkin lymphoma	Incidence	0.84	1.46	0.74	6.49	7.42	0.41
Czechia	Non-Hodgkin lymphoma	Deaths	0.53	0.69	0.3	3.95	3.31	-0.55
Czechia	Hodgkin lymphoma	Incidence	0.36	0.37	0.03	3.19	3.14	-0.36
Czechia	Hodgkin lymphoma	Deaths	0.14	0.06	-0.53	1.09	0.38	-3.68
Democratic People's Republic of Korea	Leukemia	Incidence	3.45	2.04	-0.41	14.47	7.6	-1.93
Democratic People's Republic of Korea	Leukemia	Deaths	1.31	1.31	0	6.4	4.49	-1.09
Democratic People's Republic of Korea	Multiple myeloma	Incidence	0.14	0.26	0.76	0.87	0.78	-0.32

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Democratic People's Republic of Korea	Multiple myeloma	Deaths	0.12	0.21	0.78	0.74	0.66	-0.4
Democratic People's Republic of Korea	Non-Hodgkin lymphoma	Incidence	0.47	0.79	0.69	2.56	2.58	0.18
Democratic People's Republic of Korea	Non-Hodgkin lymphoma	Deaths	0.38	0.64	0.7	2.12	2.02	-0.02
Democratic People's Republic of Korea	Hodgkin lymphoma	Incidence	0.1	0.13	0.26	0.54	0.43	-0.83
Democratic People's Republic of Korea	Hodgkin lymphoma	Deaths	0.05	0.07	0.32	0.29	0.22	-1.01
Democratic Republic of the Congo	Leukemia	Incidence	2.23	2.49	0.11	5.23	3.61	-1.18
Democratic Republic of the Congo	Leukemia	Deaths	1.09	1.5	0.37	3.62	2.81	-0.83
Democratic Republic of the Congo	Multiple myeloma	Incidence	0.18	0.4	1.26	1.12	1.13	-0.01
Democratic Republic of the Congo	Multiple myeloma	Deaths	0.16	0.36	1.21	1.11	1.09	-0.09
Democratic Republic of the Congo	Non-Hodgkin lymphoma	Incidence	0.41	0.94	1.31	2.05	2	-0.09
Democratic Republic of the Congo	Non-Hodgkin lymphoma	Deaths	0.48	0.92	0.92	2.34	2.16	-0.31
Democratic Republic of the Congo	Hodgkin lymphoma	Incidence	0.12	0.26	1.22	0.49	0.47	-0.1

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Democratic Republic of the Congo	Hodgkin lymphoma	Deaths	0.1	0.21	1.15	0.46	0.42	-0.19
Denmark	Leukemia	Incidence	0.9	1.24	0.38	13.55	13.16	0.12
Denmark	Leukemia	Deaths	0.61	0.58	-0.05	8.07	5.06	-1.42
Denmark	Multiple myeloma	Incidence	0.21	0.51	1.42	2.58	4.37	1.42
Denmark	Multiple myeloma	Deaths	0.16	0.33	1.08	1.92	2.74	0.68
Denmark	Non-Hodgkin lymphoma	Incidence	0.5	1.01	1.03	6.58	9.2	0.53
Denmark	Non-Hodgkin lymphoma	Deaths	0.28	0.44	0.58	3.48	3.77	-0.44
Denmark	Hodgkin lymphoma	Incidence	0.09	0.17	1.01	1.46	2.6	1.88
Denmark	Hodgkin lymphoma	Deaths	0.03	0.03	0.04	0.41	0.32	-1.21
Djibouti	Leukemia	Incidence	0.03	0.06	1.25	4.68	5.38	0.51
Djibouti	Leukemia	Deaths	0.01	0.03	1.69	3.12	3.66	0.57
Djibouti	Multiple myeloma	Incidence	0	0.01	4.05	1.12	1.33	0.6
Djibouti	Multiple myeloma	Deaths	0	0.01	3.94	1.1	1.28	0.5
Djibouti	Non-Hodgkin lymphoma	Incidence	0	0.02	3.7	2.72	3.46	0.88
Djibouti	Non-Hodgkin lymphoma	Deaths	0.01	0.02	3.41	3.13	3.88	0.79
Djibouti	Hodgkin lymphoma	Incidence	0	0.01	2.18	0.71	0.76	0.06
Djibouti	Hodgkin lymphoma	Deaths	0	0.01	2	0.62	0.59	-0.27
Dominica	Leukemia	Incidence	0.01	0.01	0.09	7.98	8.55	0.36
Dominica	Leukemia	Deaths	0	0.01	0.12	6.26	6.39	0.17
Dominica	Multiple myeloma	Incidence	0	0.01	0.42	6.39	7.25	0.54
Dominica	Multiple myeloma	Deaths	0	0.01	0.39	5.26	5.89	0.5

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Dominica	Non-Hodgkin lymphoma	Incidence	0.01	0.01	0.2	8.53	9.11	0.38
Dominica	Non-Hodgkin lymphoma	Deaths	0.01	0.01	0.15	7.49	7.25	-0.01
Dominica	Hodgkin lymphoma	Incidence	0	0	0.03	0.94	0.9	-0.33
Dominica	Hodgkin lymphoma	Deaths	0	0	-0.01	0.62	0.54	-0.71
Dominican Republic	Leukemia	Incidence	0.43	0.59	0.36	5.93	5.79	0.16
Dominican Republic	Leukemia	Deaths	0.21	0.4	0.87	3.64	4.05	0.73
Dominican Republic	Multiple myeloma	Incidence	0.04	0.18	3.38	1.1	1.93	2.21
Dominican Republic	Multiple myeloma	Deaths	0.04	0.14	2.99	0.97	1.53	1.89
Dominican Republic	Non-Hodgkin lymphoma	Incidence	0.09	0.34	2.65	1.75	3.38	2.61
Dominican Republic	Non-Hodgkin lymphoma	Deaths	0.08	0.25	2.06	1.73	2.6	1.86
Dominican Republic	Hodgkin lymphoma	Incidence	0.01	0.02	1.18	0.17	0.21	0.72
Dominican Republic	Hodgkin lymphoma	Deaths	0.01	0.01	0.69	0.14	0.12	-0.24
Ecuador	Leukemia	Incidence	0.62	1.29	1.08	6.81	7.81	0.62
Ecuador	Leukemia	Deaths	0.41	0.92	1.27	5.16	5.75	0.64
Ecuador	Multiple myeloma	Incidence	0.06	0.25	3.39	1.08	1.66	1.96
Ecuador	Multiple myeloma	Deaths	0.05	0.21	2.95	1.01	1.39	1.6
Ecuador	Non-Hodgkin lymphoma	Incidence	0.17	1	4.79	2.53	6.34	3.7
Ecuador	Non-Hodgkin lymphoma	Deaths	0.16	0.72	3.41	2.65	4.79	2.49
Ecuador	Hodgkin lymphoma	Incidence	0.07	0.14	1.17	0.82	0.86	0.53
Ecuador	Hodgkin lymphoma	Deaths	0.05	0.07	0.45	0.67	0.45	-0.97
Egypt	Leukemia	Incidence	2.87	4.07	0.42	5.62	4.98	-0.26

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Egypt	Leukemia	Deaths	1.78	2.81	0.57	4.18	3.78	-0.19
Egypt	Multiple myeloma	Incidence	0.29	0.84	1.95	1.01	1.36	1.1
Egypt	Multiple myeloma	Deaths	0.26	0.7	1.69	0.96	1.2	0.86
Egypt	Non-Hodgkin lymphoma	Incidence	0.7	2.01	1.88	1.64	2.49	1.45
Egypt	Non-Hodgkin lymphoma	Deaths	0.6	1.32	1.21	1.57	1.81	0.62
Egypt	Hodgkin lymphoma	Incidence	0.17	0.35	1.03	0.42	0.41	0
Egypt	Hodgkin lymphoma	Deaths	0.13	0.18	0.34	0.35	0.24	-1.16
El Salvador	Leukemia	Incidence	0.48	0.45	-0.06	8.64	7.3	-0.67
El Salvador	Leukemia	Deaths	0.23	0.3	0.31	5.02	4.84	-0.13
El Salvador	Multiple myeloma	Incidence	0.02	0.05	1.94	0.59	0.88	1.35
El Salvador	Multiple myeloma	Deaths	0.02	0.04	1.66	0.53	0.69	0.92
El Salvador	Non-Hodgkin lymphoma	Incidence	0.06	0.22	2.77	1.55	3.64	2.75
El Salvador	Non-Hodgkin lymphoma	Deaths	0.05	0.16	1.85	1.57	2.56	1.33
El Salvador	Hodgkin lymphoma	Incidence	0.05	0.06	0.27	1.17	0.96	-0.97
El Salvador	Hodgkin lymphoma	Deaths	0.04	0.03	-0.16	0.97	0.49	-2.74
Equatorial Guinea	Leukemia	Incidence	0.02	0.03	0.45	5	3.65	-1.07
Equatorial Guinea	Leukemia	Deaths	0.01	0.02	0.64	3.7	2.92	-0.77
Equatorial Guinea	Multiple myeloma	Incidence	0	0.01	1.95	1.14	1.45	0.97
Equatorial Guinea	Multiple myeloma	Deaths	0	0.01	1.72	1.14	1.35	0.72
Equatorial Guinea	Non-Hodgkin lymphoma	Incidence	0.01	0.03	4.47	2.15	3.96	2.9
Equatorial Guinea	Non-Hodgkin lymphoma	Deaths	0.01	0.02	3	2.41	4.07	2.55



Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Equatorial Guinea	Hodgkin lymphoma	Incidence	0	0	0.86	0.6	0.33	-2.42
Equatorial Guinea	Hodgkin lymphoma	Deaths	0	0	0.41	0.56	0.26	-3.01
Eritrea	Leukemia	Incidence	0.14	0.27	0.9	4.45	4.88	0.39
Eritrea	Leukemia	Deaths	0.07	0.16	1.11	3.15	3.59	0.46
Eritrea	Multiple myeloma	Incidence	0.01	0.03	2.31	1.07	1.33	0.59
Eritrea	Multiple myeloma	Deaths	0.01	0.03	2.2	1.07	1.29	0.48
Eritrea	Non-Hodgkin lymphoma	Incidence	0.03	0.1	2.86	2.09	3.07	1.13
Eritrea	Non-Hodgkin lymphoma	Deaths	0.03	0.1	2.44	2.4	3.47	1.08
Eritrea	Hodgkin lymphoma	Incidence	0.02	0.05	1.58	0.9	0.91	-0.02
Eritrea	Hodgkin lymphoma	Deaths	0.01	0.04	1.47	0.8	0.77	-0.16
Estonia	Leukemia	Incidence	0.19	0.25	0.31	11.41	12.08	0.71
Estonia	Leukemia	Deaths	0.14	0.14	0.02	7.4	5.62	-0.85
Estonia	Multiple myeloma	Incidence	0.03	0.09	1.73	1.65	3.54	3.1
Estonia	Multiple myeloma	Deaths	0.03	0.06	1.35	1.26	2.24	2.33
Estonia	Non-Hodgkin lymphoma	Incidence	0.05	0.18	2.29	3.04	7.75	3.49
Estonia	Non-Hodgkin lymphoma	Deaths	0.04	0.09	1.5	1.89	3.54	2
Estonia	Hodgkin lymphoma	Incidence	0.04	0.03	-0.16	2.19	2.2	0.16
Estonia	Hodgkin lymphoma	Deaths	0.02	0.01	-0.6	0.87	0.31	-4.28
Eswatini	Leukemia	Incidence	0.02	0.04	0.73	4.46	5.11	0.71
Eswatini	Leukemia	Deaths	0.02	0.03	0.86	3.71	4.11	0.58
Eswatini	Multiple myeloma	Incidence	0.01	0.01	1.36	1.95	2.32	0.48

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Eswatini	Multiple myeloma	Deaths	0.01	0.01	1.31	1.86	2.17	0.43
Eswatini	Non-Hodgkin lymphoma	Incidence	0.01	0.03	1.73	2.93	4.12	1.29
Eswatini	Non-Hodgkin lymphoma	Deaths	0.01	0.03	1.53	3.14	4.17	1.1
Eswatini	Hodgkin lymphoma	Incidence	0	0	1.07	0.4	0.46	0.69
Eswatini	Hodgkin lymphoma	Deaths	0	0	0.93	0.35	0.37	0.46
Ethiopia	Leukemia	Incidence	10.58	8.31	-0.21	17.34	9.5	-2.15
Ethiopia	Leukemia	Deaths	6.22	5.27	-0.15	13.18	7.74	-1.98
Ethiopia	Multiple myeloma	Incidence	0.2	0.35	0.81	0.99	0.89	-0.46
Ethiopia	Multiple myeloma	Deaths	0.19	0.33	0.78	0.98	0.87	-0.52
Ethiopia	Non-Hodgkin lymphoma	Incidence	0.27	0.48	0.77	1.11	0.95	-0.72
Ethiopia	Non-Hodgkin lymphoma	Deaths	0.3	0.49	0.62	1.23	1.05	-0.72
Ethiopia	Hodgkin lymphoma	Incidence	0.52	0.65	0.25	1.42	0.81	-2.18
Ethiopia	Hodgkin lymphoma	Deaths	0.42	0.47	0.12	1.27	0.68	-2.39
Fiji	Leukemia	Incidence	0.06	0.07	0.21	9.51	8.53	-0.7
Fiji	Leukemia	Deaths	0.04	0.05	0.24	7.7	6.47	-0.88
Fiji	Multiple myeloma	Incidence	0	0.01	1.23	1.03	1.1	0.3
Fiji	Multiple myeloma	Deaths	0	0.01	1.21	0.96	1.01	0.23
Fiji	Non-Hodgkin lymphoma	Incidence	0.01	0.02	1.27	1.81	2.55	1.47
Fiji	Non-Hodgkin lymphoma	Deaths	0.01	0.02	1.31	1.84	2.44	1.31
Fiji	Hodgkin lymphoma	Incidence	0	0	0.64	0.46	0.52	0.83
Fiji	Hodgkin lymphoma	Deaths	0	0	0.5	0.34	0.33	0.36

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Finland	Leukemia	Incidence	0.56	0.97	0.73	9.11	10.63	0.73
Finland	Leukemia	Deaths	0.35	0.42	0.23	5.2	3.6	-1.26
Finland	Multiple myeloma	Incidence	0.27	0.53	1.01	3.7	4.3	0.47
Finland	Multiple myeloma	Deaths	0.19	0.36	0.89	2.63	2.76	0.02
Finland	Non-Hodgkin lymphoma	Incidence	0.7	1.34	0.92	10.29	11.41	0.21
Finland	Non-Hodgkin lymphoma	Deaths	0.39	0.57	0.48	5.51	4.55	-0.86
Finland	Hodgkin lymphoma	Incidence	0.13	0.2	0.56	2.25	3.03	1.45
Finland	Hodgkin lymphoma	Deaths	0.04	0.03	-0.28	0.59	0.29	-2.18
France	Leukemia	Incidence	7.93	17.6	1.22	11.23	16.08	1.23
France	Leukemia	Deaths	5.12	7.7	0.5	6.49	5.32	-0.75
France	Multiple myeloma	Incidence	2.77	5.36	0.94	3.31	3.83	0.34
France	Multiple myeloma	Deaths	2.23	4.05	0.82	2.58	2.66	-0.09
France	Non-Hodgkin lymphoma	Incidence	7.25	13.54	0.87	9.27	10.04	-0.14
France	Non-Hodgkin lymphoma	Deaths	4.11	5.97	0.45	5.04	4.09	-1.17
France	Hodgkin lymphoma	Incidence	1.34	2.04	0.52	2.1	2.81	1.24
France	Hodgkin lymphoma	Deaths	0.41	0.31	-0.24	0.56	0.29	-2.2
Gabon	Leukemia	Incidence	0.05	0.06	0.16	5.23	4.2	-0.71
Gabon	Leukemia	Deaths	0.03	0.04	0.35	3.93	3.33	-0.59
Gabon	Multiple myeloma	Incidence	0.01	0.02	0.99	1.63	1.76	0.16
Gabon	Multiple myeloma	Deaths	0.01	0.02	0.89	1.56	1.64	0.04
Gabon	Non-Hodgkin lymphoma	Incidence	0.03	0.05	1.01	4	4.24	0.11

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Gabon	Non-Hodgkin lymphoma	Deaths	0.03	0.05	0.79	4.36	4.35	-0.07
Gabon	Hodgkin lymphoma	Incidence	0	0.01	0.7	0.48	0.41	-0.57
Gabon	Hodgkin lymphoma	Deaths	0	0	0.48	0.43	0.33	-0.92
Gambia	Leukemia	Incidence	0.02	0.05	1.19	2.92	3.16	0.16
Gambia	Leukemia	Deaths	0.01	0.04	1.42	2.44	2.67	0.19
Gambia	Multiple myeloma	Incidence	0	0.01	2.56	0.57	0.75	0.81
Gambia	Multiple myeloma	Deaths	0	0.01	2.51	0.55	0.71	0.74
Gambia	Non-Hodgkin lymphoma	Incidence	0	0.01	2.27	0.66	0.83	0.57
Gambia	Non-Hodgkin lymphoma	Deaths	0	0.01	1.88	0.71	0.84	0.39
Gambia	Hodgkin lymphoma	Incidence	0	0.01	1.52	0.37	0.38	-0.08
Gambia	Hodgkin lymphoma	Deaths	0	0	1.37	0.32	0.31	-0.28
Georgia	Leukemia	Incidence	0.62	0.33	-0.46	11.5	7.64	-1.03
Georgia	Leukemia	Deaths	0.33	0.23	-0.3	5.91	4.82	-0.16
Georgia	Multiple myeloma	Incidence	0.04	0.06	0.26	0.7	0.97	1.58
Georgia	Multiple myeloma	Deaths	0.04	0.05	0.3	0.59	0.81	1.55
Georgia	Non-Hodgkin lymphoma	Incidence	0.09	0.22	1.34	1.57	4.42	4.7
Georgia	Non-Hodgkin lymphoma	Deaths	0.07	0.15	1.26	1.11	2.82	4.54
Georgia	Hodgkin lymphoma	Incidence	0.18	0.09	-0.5	3.03	2.12	-2.23
Georgia	Hodgkin lymphoma	Deaths	0.1	0.05	-0.53	1.67	0.96	-2.48
Germany	Leukemia	Incidence	14.92	32.36	1.17	14.57	21.91	0.71
Germany	Leukemia	Deaths	6.3	9.34	0.48	5.45	4.88	-0.31

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Germany	Multiple myeloma	Incidence	2.92	8	1.73	2.33	4.16	1.46
Germany	Multiple myeloma	Deaths	1.91	5.09	1.67	1.49	2.47	1.24
Germany	Non-Hodgkin lymphoma	Incidence	9.07	17.64	0.94	7.76	9.51	0.26
Germany	Non-Hodgkin lymphoma	Deaths	5.05	7.89	0.56	4.11	3.95	-0.46
Germany	Hodgkin lymphoma	Incidence	3.03	2.45	-0.19	3.32	2.58	-1.16
Germany	Hodgkin lymphoma	Deaths	0.8	0.39	-0.52	0.72	0.24	-3.65
Ghana	Leukemia	Incidence	0.56	0.85	0.51	4.56	3.58	-1.18
Ghana	Leukemia	Deaths	0.4	0.62	0.55	3.75	2.91	-1.19
Ghana	Multiple myeloma	Incidence	0.05	0.15	2.11	0.78	0.94	0.58
Ghana	Multiple myeloma	Deaths	0.05	0.14	1.99	0.74	0.87	0.49
Ghana	Non-Hodgkin lymphoma	Incidence	0.67	1.14	0.7	5.86	5.08	-1.22
Ghana	Non-Hodgkin lymphoma	Deaths	0.54	0.95	0.74	5.55	4.86	-0.96
Ghana	Hodgkin lymphoma	Incidence	0.02	0.04	1.2	0.18	0.16	-0.4
Ghana	Hodgkin lymphoma	Deaths	0.01	0.03	0.95	0.16	0.13	-0.69
Greece	Leukemia	Incidence	1.66	3.27	0.97	12.91	17.73	0.92
Greece	Leukemia	Deaths	0.99	1.63	0.64	6.99	6.59	-0.55
Greece	Multiple myeloma	Incidence	0.35	0.77	1.19	2.29	3.23	1.29
Greece	Multiple myeloma	Deaths	0.26	0.59	1.22	1.72	2.23	1.02
Greece	Non-Hodgkin lymphoma	Incidence	0.71	1.23	0.72	5.14	5.96	0.23
Greece	Non-Hodgkin lymphoma	Deaths	0.35	0.55	0.56	2.43	2.38	-0.38
Greece	Hodgkin lymphoma	Incidence	0.58	0.86	0.47	4.88	6.41	0.68

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Greece	Hodgkin lymphoma	Deaths	0.18	0.19	0.08	1.26	0.94	-1.3
Greenland	Leukemia	Incidence	0	0	0.39	5.54	4.43	-1.16
Greenland	Leukemia	Deaths	0	0	0.25	4.62	3.2	-1.62
Greenland	Multiple myeloma	Incidence	0	0	1.26	2.56	2.81	-0.07
Greenland	Multiple myeloma	Deaths	0	0	1.1	2.2	2.21	-0.42
Greenland	Non-Hodgkin lymphoma	Incidence	0	0	0.57	6.89	6.42	-0.74
Greenland	Non-Hodgkin lymphoma	Deaths	0	0	0.4	6.18	4.7	-1.42
Greenland	Hodgkin lymphoma	Incidence	0	0	-0.07	0.85	0.67	-1.22
Greenland	Hodgkin lymphoma	Deaths	0	0	-0.24	0.55	0.31	-2.28
Grenada	Leukemia	Incidence	0.01	0.01	-0.01	7.59	5.99	-0.44
Grenada	Leukemia	Deaths	0	0	0.03	5.49	4.28	-0.59
Grenada	Multiple myeloma	Incidence	0	0	0.75	3.25	3.67	0.58
Grenada	Multiple myeloma	Deaths	0	0	0.53	2.77	2.84	0.29
Grenada	Non-Hodgkin lymphoma	Incidence	0.01	0.01	0.33	12.46	11.21	-0.34
Grenada	Non-Hodgkin lymphoma	Deaths	0.01	0.01	0.07	11.84	8.37	-1.06
Grenada	Hodgkin lymphoma	Incidence	0	0	0.44	0.57	0.56	-0.09
Grenada	Hodgkin lymphoma	Deaths	0	0	0.09	0.42	0.3	-0.96
Guam	Leukemia	Incidence	0.01	0.01	0.39	6.13	5.01	-0.85
Guam	Leukemia	Deaths	0	0.01	0.48	4.78	3.34	-1.42
Guam	Multiple myeloma	Incidence	0	0	1.03	1.51	1.19	-1.1
Guam	Multiple myeloma	Deaths	0	0	1.07	1.3	0.98	-1.21

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Guam	Non-Hodgkin lymphoma	Incidence	0.01	0.01	0.78	5.41	5.06	-0.44
Guam	Non-Hodgkin lymphoma	Deaths	0	0.01	0.81	4.19	3.4	-0.77
Guam	Hodgkin lymphoma	Incidence	0	0	0.41	0.35	0.33	-0.44
Guam	Hodgkin lymphoma	Deaths	0	0	0.43	0.15	0.12	-0.62
Guatemala	Leukemia	Incidence	0.48	1.12	1.34	5.87	6.91	0.43
Guatemala	Leukemia	Deaths	0.24	0.72	1.99	3.87	4.89	0.68
Guatemala	Multiple myeloma	Incidence	0.02	0.09	2.89	0.6	0.78	0.85
Guatemala	Multiple myeloma	Deaths	0.02	0.07	2.64	0.57	0.67	0.53
Guatemala	Non-Hodgkin lymphoma	Incidence	0.07	0.3	3.39	1.37	2.23	2.2
Guatemala	Non-Hodgkin lymphoma	Deaths	0.06	0.24	2.78	1.43	1.99	1.55
Guatemala	Hodgkin lymphoma	Incidence	0.05	0.08	0.79	0.82	0.55	-1.26
Guatemala	Hodgkin lymphoma	Deaths	0.04	0.05	0.39	0.74	0.38	-2.26
Guinea	Leukemia	Incidence	0.18	0.32	0.72	3.3	3.33	0.23
Guinea	Leukemia	Deaths	0.13	0.23	0.74	2.77	2.8	0.2
Guinea	Multiple myeloma	Incidence	0.02	0.04	0.88	0.67	0.77	0.62
Guinea	Multiple myeloma	Deaths	0.02	0.04	0.83	0.65	0.74	0.55
Guinea	Non-Hodgkin lymphoma	Incidence	0.03	0.07	1.34	0.69	0.81	0.64
Guinea	Non-Hodgkin lymphoma	Deaths	0.03	0.06	0.95	0.74	0.82	0.44
Guinea	Hodgkin lymphoma	Incidence	0.05	0.09	0.99	0.9	0.9	0.14
Guinea	Hodgkin lymphoma	Deaths	0.04	0.07	0.86	0.79	0.76	0.01
Guinea-Bissau	Leukemia	Incidence	0.05	0.07	0.43	5.52	5.02	-0.03

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Guinea-Bissau	Leukemia	Deaths	0.03	0.05	0.49	4.45	4.09	-0.06
Guinea-Bissau	Multiple myeloma	Incidence	0	0.01	0.85	0.98	1.02	0.26
Guinea-Bissau	Multiple myeloma	Deaths	0	0.01	0.79	0.93	0.95	0.18
Guinea-Bissau	Non-Hodgkin lymphoma	Incidence	0.02	0.03	0.79	3.27	3.11	-0.47
Guinea-Bissau	Non-Hodgkin lymphoma	Deaths	0.02	0.03	0.57	3.48	3.18	-0.62
Guinea-Bissau	Hodgkin lymphoma	Incidence	0	0.01	0.77	0.48	0.45	-0.05
Guinea-Bissau	Hodgkin lymphoma	Deaths	0	0	0.72	0.43	0.4	-0.08
Guyana	Leukemia	Incidence	0.03	0.03	0.09	5.03	4.9	0.17
Guyana	Leukemia	Deaths	0.02	0.03	0.19	4.01	3.87	0.06
Guyana	Multiple myeloma	Incidence	0	0.01	1.86	0.87	1.47	1.66
Guyana	Multiple myeloma	Deaths	0	0.01	1.63	0.76	1.19	1.44
Guyana	Non-Hodgkin lymphoma	Incidence	0.02	0.02	0.42	3.01	3.23	0.33
Guyana	Non-Hodgkin lymphoma	Deaths	0.01	0.02	0.35	2.99	2.85	-0.02
Guyana	Hodgkin lymphoma	Incidence	0	0.01	1.48	0.36	0.69	1.71
Guyana	Hodgkin lymphoma	Deaths	0	0	1.12	0.29	0.46	1.15
Haiti	Leukemia	Incidence	0.95	1.09	0.14	13.15	9.4	-0.87
Haiti	Leukemia	Deaths	0.49	0.64	0.3	8.37	6.4	-0.69
Haiti	Multiple myeloma	Incidence	0.1	0.21	1.15	2.99	3.02	0.16
Haiti	Multiple myeloma	Deaths	0.09	0.18	1.05	2.83	2.72	-0.01
Haiti	Non-Hodgkin lymphoma	Incidence	0.17	0.31	0.81	3.96	3.44	-0.3
Haiti	Non-Hodgkin lymphoma	Deaths	0.2	0.31	0.56	4.4	3.59	-0.5



Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Haiti	Hodgkin lymphoma	Incidence	0.04	0.08	0.96	0.88	0.77	-0.38
Haiti	Hodgkin lymphoma	Deaths	0.03	0.06	0.83	0.82	0.67	-0.62
Honduras	Leukemia	Incidence	0.46	0.61	0.31	9.35	7.83	-0.58
Honduras	Leukemia	Deaths	0.26	0.44	0.7	6.48	6.28	0
Honduras	Multiple myeloma	Incidence	0.02	0.11	3.81	1.09	1.81	2.06
Honduras	Multiple myeloma	Deaths	0.02	0.09	3.57	1	1.58	1.93
Honduras	Non-Hodgkin lymphoma	Incidence	0.05	0.16	2.54	1.58	2.4	1.58
Honduras	Non-Hodgkin lymphoma	Deaths	0.04	0.15	2.39	1.65	2.34	1.45
Honduras	Hodgkin lymphoma	Incidence	0.01	0.02	1.17	0.24	0.22	-0.26
Honduras	Hodgkin lymphoma	Deaths	0.01	0.01	0.93	0.21	0.17	-0.57
Hungary	Leukemia	Incidence	1.2	1.72	0.43	9.23	10.52	0.29
Hungary	Leukemia	Deaths	0.92	0.95	0.03	6.85	5.27	-1.03
Hungary	Multiple myeloma	Incidence	0.29	0.4	0.39	1.95	2.11	-0.04
Hungary	Multiple myeloma	Deaths	0.24	0.34	0.39	1.63	1.73	-0.12
Hungary	Non-Hodgkin lymphoma	Incidence	0.73	1.18	0.61	5.44	6.76	0.32
Hungary	Non-Hodgkin lymphoma	Deaths	0.5	0.61	0.21	3.62	3.27	-0.74
Hungary	Hodgkin lymphoma	Incidence	0.25	0.16	-0.37	2.13	1.43	-1.94
Hungary	Hodgkin lymphoma	Deaths	0.12	0.04	-0.65	0.95	0.28	-4.69
Iceland	Leukemia	Incidence	0.03	0.06	0.85	11.5	12.4	-0.02
Iceland	Leukemia	Deaths	0.01	0.02	0.51	4.67	3.67	-0.81
Iceland	Multiple myeloma	Incidence	0.01	0.02	1.04	4.06	4.29	0

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Iceland	Multiple myeloma	Deaths	0.01	0.02	0.85	2.89	2.71	-0.38
Iceland	Non-Hodgkin lymphoma	Incidence	0.02	0.04	0.94	8.12	8.53	-0.02
Iceland	Non-Hodgkin lymphoma	Deaths	0.01	0.02	0.61	3.66	3.08	-0.75
Iceland	Hodgkin lymphoma	Incidence	0.01	0.01	0.32	2.35	2.19	-0.07
Iceland	Hodgkin lymphoma	Deaths	0	0	-0.18	0.41	0.2	-2.4
India	Leukemia	Incidence	34.01	43.57	0.28	4.61	3.56	-1.22
India	Leukemia	Deaths	23.65	33.83	0.43	3.77	2.87	-1.27
India	Multiple myeloma	Incidence	3.35	10.35	2.09	0.75	0.91	0.61
India	Multiple myeloma	Deaths	3.05	9.06	1.97	0.73	0.82	0.37
India	Non-Hodgkin lymphoma	Incidence	9.23	32.46	2.52	1.61	2.66	1.72
India	Non-Hodgkin lymphoma	Deaths	8.38	27.26	2.25	1.65	2.38	1.29
India	Hodgkin lymphoma	Incidence	5.18	6.61	0.28	0.73	0.48	-1.66
India	Hodgkin lymphoma	Deaths	4.1	4.36	0.06	0.63	0.33	-2.37
Indonesia	Leukemia	Incidence	15.76	15.27	-0.03	8.89	6.71	-0.98
Indonesia	Leukemia	Deaths	8.31	10.59	0.27	5.66	4.93	-0.49
Indonesia	Multiple myeloma	Incidence	0.63	1.68	1.65	0.64	0.78	0.73
Indonesia	Multiple myeloma	Deaths	0.57	1.47	1.56	0.61	0.72	0.63
Indonesia	Non-Hodgkin lymphoma	Incidence	2.49	6.48	1.61	1.86	2.85	1.37
Indonesia	Non-Hodgkin lymphoma	Deaths	2.35	5.84	1.48	1.93	2.72	1.16
Indonesia	Hodgkin lymphoma	Incidence	0.62	0.82	0.33	0.41	0.33	-0.77
Indonesia	Hodgkin lymphoma	Deaths	0.46	0.52	0.14	0.34	0.22	-1.36

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Iran (Islamic Republic of)	Leukemia	Incidence	6.09	6.77	0.11	11.62	8.85	-0.89
Iran (Islamic Republic of)	Leukemia	Deaths	3.29	4.42	0.35	8.29	6.04	-0.93
Iran (Islamic Republic of)	Multiple myeloma	Incidence	0.28	0.89	2.12	1.09	1.22	0.32
Iran (Islamic Republic of)	Multiple myeloma	Deaths	0.24	0.68	1.86	0.97	0.96	-0.01
Iran (Islamic Republic of)	Non-Hodgkin lymphoma	Incidence	0.93	3.03	2.26	2.4	3.96	1.59
Iran (Islamic Republic of)	Non-Hodgkin lymphoma	Deaths	0.61	1.58	1.58	1.93	2.13	0.35
Iran (Islamic Republic of)	Hodgkin lymphoma	Incidence	0.28	1.1	2.92	0.66	1.32	2.74
Iran (Islamic Republic of)	Hodgkin lymphoma	Deaths	0.16	0.31	0.93	0.45	0.39	0.17
Iraq	Leukemia	Incidence	2	3.18	0.59	12.15	9.89	-0.62
Iraq	Leukemia	Deaths	0.98	1.88	0.91	8.23	6.95	-0.62
Iraq	Multiple myeloma	Incidence	0.08	0.25	2.33	0.98	1.05	0.18
Iraq	Multiple myeloma	Deaths	0.07	0.2	1.94	0.88	0.86	-0.2
Iraq	Non-Hodgkin lymphoma	Incidence	0.43	1.06	1.44	3.59	3.57	0.07
Iraq	Non-Hodgkin lymphoma	Deaths	0.33	0.64	0.92	3.35	2.46	-1.12
Iraq	Hodgkin lymphoma	Incidence	0.11	0.27	1.4	0.85	0.71	-0.86
Iraq	Hodgkin lymphoma	Deaths	0.07	0.1	0.41	0.62	0.33	-2.64
Ireland	Leukemia	Incidence	0.4	0.97	1.45	10.05	15.06	1.49
Ireland	Leukemia	Deaths	0.24	0.31	0.29	5.97	4.25	-1.38
Ireland	Multiple myeloma	Incidence	0.18	0.36	1.02	4.26	4.74	0.13
Ireland	Multiple myeloma	Deaths	0.14	0.24	0.76	3.28	3.13	-0.45
Ireland	Non-Hodgkin lymphoma	Incidence	0.38	0.87	1.29	9.38	12	0.51

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Ireland	Non-Hodgkin lymphoma	Deaths	0.21	0.34	0.65	5.07	4.57	-0.79
Ireland	Hodgkin lymphoma	Incidence	0.09	0.18	1.01	2.44	3.47	1.66
Ireland	Hodgkin lymphoma	Deaths	0.03	0.02	-0.24	0.71	0.32	-2.67
Israel	Leukemia	Incidence	0.52	1.61	2.12	10.75	14.78	0.88
Israel	Leukemia	Deaths	0.35	0.73	1.07	7.49	6.24	-0.9
Israel	Multiple myeloma	Incidence	0.18	0.5	1.78	3.68	4.3	0.38
Israel	Multiple myeloma	Deaths	0.15	0.36	1.44	3.07	3.04	-0.16
Israel	Non-Hodgkin lymphoma	Incidence	0.46	1.51	2.26	9.57	13.2	0.5
Israel	Non-Hodgkin lymphoma	Deaths	0.29	0.7	1.43	6.07	5.98	-0.65
Israel	Hodgkin lymphoma	Incidence	0.09	0.25	1.75	1.9	2.72	0.87
Israel	Hodgkin lymphoma	Deaths	0.03	0.04	0.25	0.68	0.39	-2.3
Italy	Leukemia	Incidence	10.77	20.46	0.9	15.83	20.87	0.75
Italy	Leukemia	Deaths	5.21	7.15	0.37	6.55	5.1	-0.92
Italy	Multiple myeloma	Incidence	3.28	6.6	1.01	3.67	4.63	0.69
Italy	Multiple myeloma	Deaths	2.19	4.12	0.88	2.4	2.64	0.21
Italy	Non-Hodgkin lymphoma	Incidence	8.14	14.29	0.75	10.05	10.8	-0.26
Italy	Non-Hodgkin lymphoma	Deaths	4.01	5.9	0.47	4.74	4.07	-1.02
Italy	Hodgkin lymphoma	Incidence	2.13	2.35	0.1	3.28	3.48	0.43
Italy	Hodgkin lymphoma	Deaths	0.63	0.47	-0.26	0.83	0.42	-2.12
Jamaica	Leukemia	Incidence	0.1	0.18	0.87	4.38	6.36	1.13
Jamaica	Leukemia	Deaths	0.06	0.13	1.19	2.88	4.45	1.32

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Jamaica	Multiple myeloma	Incidence	0.04	0.14	2.72	2.06	4.63	4.15
Jamaica	Multiple myeloma	Deaths	0.03	0.1	2.49	1.66	3.52	3.96
Jamaica	Non-Hodgkin lymphoma	Incidence	0.09	0.23	1.52	4.56	7.68	1.21
Jamaica	Non-Hodgkin lymphoma	Deaths	0.07	0.16	1.24	3.77	5.27	0.59
Jamaica	Hodgkin lymphoma	Incidence	0.01	0.01	0.73	0.36	0.44	0.51
Jamaica	Hodgkin lymphoma	Deaths	0	0.01	0.3	0.23	0.2	-0.63
Japan	Leukemia	Incidence	12.56	22.63	0.8	9.14	10.81	0.62
Japan	Leukemia	Deaths	6.71	9.86	0.47	4.43	3.09	-1.23
Japan	Multiple myeloma	Incidence	3.12	7.45	1.39	1.84	1.99	0.24
Japan	Multiple myeloma	Deaths	2.35	5.38	1.29	1.4	1.33	-0.46
Japan	Non-Hodgkin lymphoma	Incidence	10.91	30.25	1.77	6.83	8.32	0.62
Japan	Non-Hodgkin lymphoma	Deaths	5.67	13.72	1.42	3.47	3.44	-0.14
Japan	Hodgkin lymphoma	Incidence	3.71	7.66	1.07	2.32	2.59	0.82
Japan	Hodgkin lymphoma	Deaths	0.16	0.24	0.49	0.1	0.09	-0.09
Jordan	Leukemia	Incidence	0.33	0.87	1.61	11.83	9.86	-0.83
Jordan	Leukemia	Deaths	0.16	0.45	1.76	8.61	6.62	-1
Jordan	Multiple myeloma	Incidence	0.02	0.08	3.09	1.52	1.24	-1.16
Jordan	Multiple myeloma	Deaths	0.02	0.06	2.6	1.39	1	-1.61
Jordan	Non-Hodgkin lymphoma	Incidence	0.12	0.57	3.88	6.35	7.46	0.36
Jordan	Non-Hodgkin lymphoma	Deaths	0.1	0.31	2.2	6.35	4.52	-1.57
Jordan	Hodgkin lymphoma	Incidence	0.01	0.04	3.02	0.35	0.35	-0.47

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Jordan	Hodgkin lymphoma	Deaths	0.01	0.01	0.85	0.25	0.12	-3.21
Kazakhstan	Leukemia	Incidence	1.23	0.98	-0.21	7.74	5.45	-0.74
Kazakhstan	Leukemia	Deaths	0.76	0.62	-0.19	5.09	3.56	-0.78
Kazakhstan	Multiple myeloma	Incidence	0.08	0.15	0.97	0.58	0.82	1.19
Kazakhstan	Multiple myeloma	Deaths	0.06	0.12	0.88	0.5	0.68	0.97
Kazakhstan	Non-Hodgkin lymphoma	Incidence	0.37	0.46	0.24	2.43	2.58	-1.46
Kazakhstan	Non-Hodgkin lymphoma	Deaths	0.24	0.26	0.08	1.72	1.49	-2.16
Kazakhstan	Hodgkin lymphoma	Incidence	0.18	0.24	0.32	1.11	1.27	0.04
Kazakhstan	Hodgkin lymphoma	Deaths	0.1	0.08	-0.18	0.65	0.43	-2.01
Kenya	Leukemia	Incidence	0.93	1.28	0.37	3.61	3.25	-0.03
Kenya	Leukemia	Deaths	0.45	0.8	0.8	2.45	2.53	0.41
Kenya	Multiple myeloma	Incidence	0.09	0.32	2.7	1.06	1.48	1.43
Kenya	Multiple myeloma	Deaths	0.08	0.31	2.83	1.03	1.51	1.77
Kenya	Non-Hodgkin lymphoma	Incidence	0.22	0.91	3.1	2.06	3.34	2.05
Kenya	Non-Hodgkin lymphoma	Deaths	0.23	0.9	2.97	2.3	3.82	2.27
Kenya	Hodgkin lymphoma	Incidence	0.07	0.22	2.01	0.46	0.56	0.93
Kenya	Hodgkin lymphoma	Deaths	0.05	0.16	1.99	0.39	0.46	1.1
Kiribati	Leukemia	Incidence	0	0.01	0.36	6.78	5.92	-0.56
Kiribati	Leukemia	Deaths	0	0	0.44	5.05	4.43	-0.53
Kiribati	Multiple myeloma	Incidence	0	0	0.65	1	0.9	-0.51
Kiribati	Multiple myeloma	Deaths	0	0	0.6	0.97	0.86	-0.54

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Kiribati	Non-Hodgkin lymphoma	Incidence	0	0	0.77	2.62	2.58	-0.11
Kiribati	Non-Hodgkin lymphoma	Deaths	0	0	0.67	2.81	2.68	-0.19
Kiribati	Hodgkin lymphoma	Incidence	0	0	0.56	0.45	0.39	-0.5
Kiribati	Hodgkin lymphoma	Deaths	0	0	0.48	0.39	0.32	-0.68
Kuwait	Leukemia	Incidence	0.13	0.22	0.73	9.54	6.88	-1.04
Kuwait	Leukemia	Deaths	0.06	0.1	0.75	5.81	3.62	-1.58
Kuwait	Multiple myeloma	Incidence	0.01	0.03	3.43	1.23	1.25	0.25
Kuwait	Multiple myeloma	Deaths	0.01	0.02	2.96	1	0.93	-0.08
Kuwait	Non-Hodgkin lymphoma	Incidence	0.05	0.18	2.46	6.07	6.82	1.05
Kuwait	Non-Hodgkin lymphoma	Deaths	0.03	0.08	1.79	4.11	3.38	-0.08
Kuwait	Hodgkin lymphoma	Incidence	0.01	0.03	2.32	0.72	0.84	0.78
Kuwait	Hodgkin lymphoma	Deaths	0	0.01	0.65	0.31	0.17	-1.89
Kyrgyzstan	Leukemia	Incidence	0.35	0.23	-0.34	7.49	3.94	-2.36
Kyrgyzstan	Leukemia	Deaths	0.19	0.15	-0.19	4.56	2.85	-1.68
Kyrgyzstan	Multiple myeloma	Incidence	0.02	0.03	0.79	0.52	0.62	0.5
Kyrgyzstan	Multiple myeloma	Deaths	0.01	0.02	0.72	0.47	0.55	0.47
Kyrgyzstan	Non-Hodgkin lymphoma	Incidence	0.05	0.1	0.9	1.38	1.85	1.3
Kyrgyzstan	Non-Hodgkin lymphoma	Deaths	0.04	0.06	0.63	1.16	1.31	0.6
Kyrgyzstan	Hodgkin lymphoma	Incidence	0.02	0.03	0.14	0.61	0.45	-0.86
Kyrgyzstan	Hodgkin lymphoma	Deaths	0.02	0.01	-0.17	0.44	0.24	-1.89
Lao People's Democratic	Leukemia	Incidence	0.58	0.47	-0.19	13.11	7.64	-1.92

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
<b>Republic</b>								
<b>Lao People's Democratic Republic</b>	<b>Leukemia</b>	Deaths	0.3	0.29	-0.03	8.73	5.5	-1.75
<b>Lao People's Democratic Republic</b>	<b>Multiple myeloma</b>	Incidence	0.02	0.04	0.87	0.96	0.88	-0.51
<b>Lao People's Democratic Republic</b>	<b>Multiple myeloma</b>	Deaths	0.02	0.03	0.78	0.93	0.82	-0.64
<b>Lao People's Democratic Republic</b>	<b>Non-Hodgkin lymphoma</b>	Incidence	0.07	0.14	1.13	2.37	2.63	0.25
<b>Lao People's Democratic Republic</b>	<b>Non-Hodgkin lymphoma</b>	Deaths	0.07	0.13	0.9	2.54	2.67	0.05
<b>Lao People's Democratic Republic</b>	<b>Hodgkin lymphoma</b>	Incidence	0.02	0.02	0.19	0.63	0.38	-1.93
<b>Lao People's Democratic Republic</b>	<b>Hodgkin lymphoma</b>	Deaths	0.02	0.02	0.01	0.57	0.29	-2.4
<b>Latvia</b>	<b>Leukemia</b>	Incidence	0.34	0.3	-0.13	11.51	9.37	-0.61
<b>Latvia</b>	<b>Leukemia</b>	Deaths	0.24	0.18	-0.26	7.55	5.02	-1.42
<b>Latvia</b>	<b>Multiple myeloma</b>	Incidence	0.05	0.1	0.89	1.51	2.68	2.17
<b>Latvia</b>	<b>Multiple myeloma</b>	Deaths	0.04	0.07	0.72	1.17	1.81	1.61
<b>Latvia</b>	<b>Non-Hodgkin lymphoma</b>	Incidence	0.08	0.2	1.44	2.68	6.1	3.36
<b>Latvia</b>	<b>Non-Hodgkin lymphoma</b>	Deaths	0.05	0.11	1.07	1.64	3.07	2.42
<b>Latvia</b>	<b>Hodgkin lymphoma</b>	Incidence	0.05	0.04	-0.11	1.73	2.23	0.92
<b>Latvia</b>	<b>Hodgkin lymphoma</b>	Deaths	0.02	0.01	-0.5	0.71	0.4	-2.38
<b>Lebanon</b>	<b>Leukemia</b>	Incidence	0.28	0.62	1.19	10.42	12.05	0.61
<b>Lebanon</b>	<b>Leukemia</b>	Deaths	0.21	0.34	0.61	8.73	6.52	-0.98



Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Lebanon	Multiple myeloma	Incidence	0.08	0.18	1.38	3.39	3.43	0.04
Lebanon	Multiple myeloma	Deaths	0.06	0.13	1.08	3.05	2.59	-0.62
Lebanon	Non-Hodgkin lymphoma	Incidence	0.09	0.32	2.66	3.53	6.3	2.4
Lebanon	Non-Hodgkin lymphoma	Deaths	0.07	0.16	1.13	3.15	3.02	0.08
Lebanon	Hodgkin lymphoma	Incidence	0.08	0.29	2.76	2.79	5.67	2.88
Lebanon	Hodgkin lymphoma	Deaths	0.05	0.05	0.11	1.77	0.97	-2.07
Lesotho	Leukemia	Incidence	0.05	0.08	0.74	3.55	5.4	2.07
Lesotho	Leukemia	Deaths	0.03	0.06	0.81	2.99	4.53	2.01
Lesotho	Multiple myeloma	Incidence	0.01	0.03	1	1.49	2.32	1.98
Lesotho	Multiple myeloma	Deaths	0.01	0.03	0.97	1.44	2.22	1.96
Lesotho	Non-Hodgkin lymphoma	Incidence	0.02	0.05	1.4	1.96	3.54	2.59
Lesotho	Non-Hodgkin lymphoma	Deaths	0.02	0.05	1.34	2.1	3.72	2.51
Lesotho	Hodgkin lymphoma	Incidence	0.01	0.01	0.71	0.4	0.52	1.46
Lesotho	Hodgkin lymphoma	Deaths	0	0.01	0.66	0.35	0.44	1.38
Liberia	Leukemia	Incidence	0.09	0.13	0.43	4.68	3.86	-0.28
Liberia	Leukemia	Deaths	0.06	0.09	0.56	3.59	3.15	-0.15
Liberia	Multiple myeloma	Incidence	0.01	0.02	0.94	0.85	0.91	0.44
Liberia	Multiple myeloma	Deaths	0.01	0.02	0.83	0.83	0.86	0.31
Liberia	Non-Hodgkin lymphoma	Incidence	0.03	0.07	1.05	2.43	2.31	-0.18
Liberia	Non-Hodgkin lymphoma	Deaths	0.04	0.06	0.62	2.71	2.34	-0.47
Liberia	Hodgkin lymphoma	Incidence	0	0.01	1.21	0.33	0.31	-0.25

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Liberia	Hodgkin lymphoma	Deaths	0	0.01	0.98	0.3	0.27	-0.44
Libya	Leukemia	Incidence	0.28	0.39	0.4	8.07	6.92	-0.28
Libya	Leukemia	Deaths	0.17	0.28	0.67	6.21	5.18	-0.49
Libya	Multiple myeloma	Incidence	0.03	0.09	2.08	1.67	1.87	0.53
Libya	Multiple myeloma	Deaths	0.03	0.07	1.84	1.49	1.55	0.24
Libya	Non-Hodgkin lymphoma	Incidence	0.07	0.22	1.92	2.93	3.76	1.3
Libya	Non-Hodgkin lymphoma	Deaths	0.06	0.14	1.34	2.74	2.58	0.07
Libya	Hodgkin lymphoma	Incidence	0.06	0.16	1.52	2.01	2.33	0.73
Libya	Hodgkin lymphoma	Deaths	0.04	0.06	0.7	1.36	1.01	-1.16
Lithuania	Leukemia	Incidence	0.43	0.41	-0.05	10.79	8.5	-0.64
Lithuania	Leukemia	Deaths	0.31	0.27	-0.13	7.43	5.13	-1.19
Lithuania	Multiple myeloma	Incidence	0.08	0.17	1.12	1.82	3.08	1.79
Lithuania	Multiple myeloma	Deaths	0.06	0.12	1	1.33	2.06	1.42
Lithuania	Non-Hodgkin lymphoma	Incidence	0.1	0.27	1.57	2.56	5.46	3.09
Lithuania	Non-Hodgkin lymphoma	Deaths	0.07	0.16	1.4	1.54	2.91	2.49
Lithuania	Hodgkin lymphoma	Incidence	0.09	0.06	-0.33	2.33	1.96	-1.22
Lithuania	Hodgkin lymphoma	Deaths	0.03	0.01	-0.53	0.73	0.34	-3.42
Luxembourg	Leukemia	Incidence	0.06	0.12	0.89	13.58	13.99	0.08
Luxembourg	Leukemia	Deaths	0.04	0.05	0.33	7.96	5.46	-1.34
Luxembourg	Multiple myeloma	Incidence	0.02	0.04	1.01	3.37	3.74	0.26
Luxembourg	Multiple myeloma	Deaths	0.01	0.03	0.85	2.62	2.61	-0.13

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Luxembourg	Non-Hodgkin lymphoma	Incidence	0.04	0.09	1.04	8.23	9.09	0.02
Luxembourg	Non-Hodgkin lymphoma	Deaths	0.02	0.04	0.54	4.4	3.61	-0.96
Luxembourg	Hodgkin lymphoma	Incidence	0.01	0.02	0.78	1.99	2.25	0.16
Luxembourg	Hodgkin lymphoma	Deaths	0	0	-0.27	0.56	0.23	-3.19
Madagascar	Leukemia	Incidence	0.74	0.82	0.11	4.88	3.55	-0.94
Madagascar	Leukemia	Deaths	0.35	0.47	0.32	3.14	2.63	-0.48
Madagascar	Multiple myeloma	Incidence	0.05	0.11	1.15	0.97	0.98	-0.05
Madagascar	Multiple myeloma	Deaths	0.05	0.1	1.06	0.96	0.96	-0.1
Madagascar	Non-Hodgkin lymphoma	Incidence	0.15	0.3	0.97	2.24	2.24	0.03
Madagascar	Non-Hodgkin lymphoma	Deaths	0.16	0.3	0.86	2.53	2.52	0.01
Madagascar	Hodgkin lymphoma	Incidence	0.08	0.14	0.73	0.84	0.67	-0.65
Madagascar	Hodgkin lymphoma	Deaths	0.06	0.11	0.69	0.71	0.56	-0.66
Malawi	Leukemia	Incidence	0.55	0.53	-0.03	4.61	3.49	-0.9
Malawi	Leukemia	Deaths	0.26	0.31	0.16	3.03	2.55	-0.56
Malawi	Multiple myeloma	Incidence	0.02	0.05	1.09	0.63	0.7	0.39
Malawi	Multiple myeloma	Deaths	0.02	0.05	1.06	0.61	0.67	0.32
Malawi	Non-Hodgkin lymphoma	Incidence	0.35	0.38	0.09	5.43	4.24	-1.17
Malawi	Non-Hodgkin lymphoma	Deaths	0.35	0.35	-0.01	5.83	4.71	-1.01
Malawi	Hodgkin lymphoma	Incidence	0.05	0.09	0.84	0.67	0.62	-0.48
Malawi	Hodgkin lymphoma	Deaths	0.04	0.07	0.72	0.56	0.49	-0.66
Malaysia	Leukemia	Incidence	1.16	2	0.73	7.65	7.05	-0.37

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Malaysia	Leukemia	Deaths	0.76	1.39	0.82	5.8	5.1	-0.55
Malaysia	Multiple myeloma	Incidence	0.08	0.28	2.51	0.88	1.04	0.55
Malaysia	Multiple myeloma	Deaths	0.07	0.22	2.21	0.79	0.86	0.21
Malaysia	Non-Hodgkin lymphoma	Incidence	0.44	1.97	3.48	3.86	7.04	2.04
Malaysia	Non-Hodgkin lymphoma	Deaths	0.39	1.26	2.22	3.85	4.71	0.54
Malaysia	Hodgkin lymphoma	Incidence	0.08	0.23	1.81	0.57	0.72	0.64
Malaysia	Hodgkin lymphoma	Deaths	0.05	0.07	0.46	0.38	0.24	-1.84
Maldives	Leukemia	Incidence	0.02	0.02	-0.02	9.27	5.51	-1.92
Maldives	Leukemia	Deaths	0.01	0.01	0.19	6.33	3.51	-2.31
Maldives	Multiple myeloma	Incidence	0	0	2.26	1.16	1.14	-0.32
Maldives	Multiple myeloma	Deaths	0	0	1.89	1.08	0.93	-0.82
Maldives	Non-Hodgkin lymphoma	Incidence	0	0.01	3.08	2.68	3.73	1.14
Maldives	Non-Hodgkin lymphoma	Deaths	0	0.01	1.33	2.82	2.21	-1.23
Maldives	Hodgkin lymphoma	Incidence	0	0.01	3.37	0.95	1.31	1.27
Maldives	Hodgkin lymphoma	Deaths	0	0	0.42	0.72	0.34	-2.83
Mali	Leukemia	Incidence	0.27	0.57	1.08	3.44	3.26	-0.17
Mali	Leukemia	Deaths	0.18	0.37	1.05	2.8	2.62	-0.23
Mali	Multiple myeloma	Incidence	0.03	0.06	1.21	0.61	0.66	0.22
Mali	Multiple myeloma	Deaths	0.02	0.05	1.14	0.6	0.62	0.13
Mali	Non-Hodgkin lymphoma	Incidence	0.03	0.09	1.73	0.61	0.68	0.31
Mali	Non-Hodgkin lymphoma	Deaths	0.04	0.08	1.32	0.66	0.7	0.16

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Mali	Hodgkin lymphoma	Incidence	0.03	0.05	0.96	0.38	0.31	-0.77
Mali	Hodgkin lymphoma	Deaths	0.02	0.04	0.78	0.33	0.25	-0.93
Malta	Leukemia	Incidence	0.03	0.08	1.51	8.13	12.29	1.33
Malta	Leukemia	Deaths	0.02	0.03	0.53	5.24	3.86	-1.14
Malta	Multiple myeloma	Incidence	0.01	0.03	1.6	2.29	2.74	0.43
Malta	Multiple myeloma	Deaths	0.01	0.02	1.31	1.83	1.85	-0.13
Malta	Non-Hodgkin lymphoma	Incidence	0.03	0.08	1.55	7.23	9.35	0.7
Malta	Non-Hodgkin lymphoma	Deaths	0.02	0.03	0.92	4.1	3.7	-0.55
Malta	Hodgkin lymphoma	Incidence	0.01	0.02	0.74	2.58	3.63	1.32
Malta	Hodgkin lymphoma	Deaths	0	0	-0.11	0.82	0.42	-2.14
Marshall Islands	Leukemia	Incidence	0	0	0.38	7.71	7.31	-0.23
Marshall Islands	Leukemia	Deaths	0	0	0.47	6.39	5.77	-0.41
Marshall Islands	Multiple myeloma	Incidence	0	0	1.01	1.48	1.39	-0.29
Marshall Islands	Multiple myeloma	Deaths	0	0	0.91	1.4	1.29	-0.35
Marshall Islands	Non-Hodgkin lymphoma	Incidence	0	0	1.11	2.35	2.74	0.58
Marshall Islands	Non-Hodgkin lymphoma	Deaths	0	0	1.02	2.5	2.79	0.44
Marshall Islands	Hodgkin lymphoma	Incidence	0	0	0.42	0.57	0.46	-0.69
Marshall Islands	Hodgkin lymphoma	Deaths	0	0	0.35	0.47	0.36	-0.96
Mauritania	Leukemia	Incidence	0.07	0.1	0.6	4.1	3.53	-0.24
Mauritania	Leukemia	Deaths	0.05	0.07	0.58	3.49	2.89	-0.4
Mauritania	Multiple myeloma	Incidence	0.01	0.02	0.83	0.89	0.79	-0.27

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Mauritania	Multiple myeloma	Deaths	0.01	0.01	0.74	0.85	0.73	-0.41
Mauritania	Non-Hodgkin lymphoma	Incidence	0.04	0.07	0.92	2.92	2.6	-0.61
Mauritania	Non-Hodgkin lymphoma	Deaths	0.04	0.06	0.64	3.07	2.54	-0.86
Mauritania	Hodgkin lymphoma	Incidence	0	0.01	0.62	0.32	0.25	-0.68
Mauritania	Hodgkin lymphoma	Deaths	0	0.01	0.38	0.29	0.2	-1.03
Mauritius	Leukemia	Incidence	0.07	0.08	0.1	6.8	5.84	-0.73
Mauritius	Leukemia	Deaths	0.03	0.05	0.46	3.77	3.39	-0.44
Mauritius	Multiple myeloma	Incidence	0.01	0.02	2.93	0.79	1.29	1.69
Mauritius	Multiple myeloma	Deaths	0	0.02	2.77	0.67	1.05	1.55
Mauritius	Non-Hodgkin lymphoma	Incidence	0.01	0.05	2.19	1.65	3.09	2.08
Mauritius	Non-Hodgkin lymphoma	Deaths	0.01	0.03	1.81	1.29	1.83	1.27
Mauritius	Hodgkin lymphoma	Incidence	0.01	0.01	0.71	0.67	0.84	0.21
Mauritius	Hodgkin lymphoma	Deaths	0	0	0.22	0.33	0.25	-1.14
Mexico	Leukemia	Incidence	5.8	7.79	0.34	6.87	6.44	-0.18
Mexico	Leukemia	Deaths	3.31	5.25	0.59	4.6	4.37	-0.13
Mexico	Multiple myeloma	Incidence	0.46	1.87	3.06	1.06	1.58	1.21
Mexico	Multiple myeloma	Deaths	0.39	1.44	2.7	0.92	1.24	0.89
Mexico	Non-Hodgkin lymphoma	Incidence	1.5	5.07	2.39	2.51	4.24	1.71
Mexico	Non-Hodgkin lymphoma	Deaths	1.26	3.4	1.7	2.4	2.9	0.6
Mexico	Hodgkin lymphoma	Incidence	0.81	1.38	0.7	1.24	1.11	-0.4
Mexico	Hodgkin lymphoma	Deaths	0.53	0.63	0.19	0.93	0.53	-1.91

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
<b>Micronesia (Federated States of)</b>	<b>Leukemia</b>	Incidence	0.01	0.01	-0.06	8.34	7.27	-0.57
<b>Micronesia (Federated States of)</b>	<b>Leukemia</b>	Deaths	0	0	0.02	6.76	5.78	-0.64
<b>Micronesia (Federated States of)</b>	<b>Multiple myeloma</b>	Incidence	0	0	0.47	1.62	1.54	-0.35
<b>Micronesia (Federated States of)</b>	<b>Multiple myeloma</b>	Deaths	0	0	0.38	1.53	1.4	-0.5
<b>Micronesia (Federated States of)</b>	<b>Non-Hodgkin lymphoma</b>	Incidence	0	0	0.59	2.48	3	0.63
<b>Micronesia (Federated States of)</b>	<b>Non-Hodgkin lymphoma</b>	Deaths	0	0	0.46	2.63	2.93	0.34
<b>Micronesia (Federated States of)</b>	<b>Hodgkin lymphoma</b>	Incidence	0	0	0.1	0.55	0.46	-0.65
<b>Micronesia (Federated States of)</b>	<b>Hodgkin lymphoma</b>	Deaths	0	0	-0.09	0.47	0.32	-1.28
<b>Monaco</b>	<b>Leukemia</b>	Incidence	0.01	0.02	0.85	22.51	27.38	0.94
<b>Monaco</b>	<b>Leukemia</b>	Deaths	0.01	0.01	0.52	9.2	9.66	0.4
<b>Monaco</b>	<b>Multiple myeloma</b>	Incidence	0.01	0.01	0.43	14.04	14.95	0.33
<b>Monaco</b>	<b>Multiple myeloma</b>	Deaths	0.01	0.01	0.32	10.08	9.81	0
<b>Monaco</b>	<b>Non-Hodgkin lymphoma</b>	Incidence	0.01	0.04	1.6	22.46	42.02	2.53
<b>Monaco</b>	<b>Non-Hodgkin lymphoma</b>	Deaths	0.01	0.01	1.17	10.05	15.78	1.92
<b>Monaco</b>	<b>Hodgkin lymphoma</b>	Incidence	0	0	0.46	7.54	9.75	0.97
<b>Monaco</b>	<b>Hodgkin lymphoma</b>	Deaths	0	0	-0.15	1.32	0.87	-1.42
<b>Mongolia</b>	<b>Leukemia</b>	Incidence	0.08	0.11	0.47	3.96	3.79	-0.28

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Mongolia	Leukemia	Deaths	0.05	0.08	0.57	3.04	2.88	-0.38
Mongolia	Multiple myeloma	Incidence	0.01	0.02	1.44	0.63	0.67	0.02
Mongolia	Multiple myeloma	Deaths	0.01	0.01	1.28	0.58	0.6	-0.15
Mongolia	Non-Hodgkin lymphoma	Incidence	0.04	0.08	1.11	2.95	3.02	-0.55
Mongolia	Non-Hodgkin lymphoma	Deaths	0.04	0.06	0.7	3.18	2.64	-1.31
Mongolia	Hodgkin lymphoma	Incidence	0	0.01	0.95	0.32	0.28	-0.93
Mongolia	Hodgkin lymphoma	Deaths	0	0.01	0.46	0.28	0.18	-2.01
Montenegro	Leukemia	Incidence	0.04	0.09	0.99	7.13	10.03	1.43
Montenegro	Leukemia	Deaths	0.03	0.04	0.43	4.68	4.58	-0.03
Montenegro	Multiple myeloma	Incidence	0.01	0.01	0.67	1.23	1.29	0.34
Montenegro	Multiple myeloma	Deaths	0.01	0.01	0.73	1	1.06	0.33
Montenegro	Non-Hodgkin lymphoma	Incidence	0.03	0.05	0.77	4.13	5.22	1.2
Montenegro	Non-Hodgkin lymphoma	Deaths	0.01	0.02	0.6	2.29	2.45	0.53
Montenegro	Hodgkin lymphoma	Incidence	0.02	0.03	0.26	3.32	4.04	0.7
Montenegro	Hodgkin lymphoma	Deaths	0.01	0.01	-0.04	1.08	0.79	-1.38
Morocco	Leukemia	Incidence	0.64	0.99	0.54	3.16	3.06	-0.22
Morocco	Leukemia	Deaths	0.44	0.77	0.76	2.52	2.47	-0.17
Morocco	Multiple myeloma	Incidence	0.15	0.44	2.04	1.08	1.43	0.95
Morocco	Multiple myeloma	Deaths	0.13	0.37	1.84	1.01	1.25	0.73
Morocco	Non-Hodgkin lymphoma	Incidence	0.55	1.63	1.97	3.33	5.15	1.26
Morocco	Non-Hodgkin lymphoma	Deaths	0.52	1.32	1.53	3.48	4.32	0.65



Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Morocco	Hodgkin lymphoma	Incidence	0.24	0.39	0.64	1.15	1.1	-0.33
Morocco	Hodgkin lymphoma	Deaths	0.17	0.21	0.22	0.93	0.63	-1.39
Mozambique	Leukemia	Incidence	1.07	1.95	0.82	6.38	6.32	0.19
Mozambique	Leukemia	Deaths	0.5	0.93	0.85	4.11	4.32	0.43
Mozambique	Multiple myeloma	Incidence	0.07	0.16	1.35	1.17	1.49	0.99
Mozambique	Multiple myeloma	Deaths	0.07	0.15	1.26	1.18	1.46	0.86
Mozambique	Non-Hodgkin lymphoma	Incidence	0.14	0.48	2.32	2.44	4.03	2.18
Mozambique	Non-Hodgkin lymphoma	Deaths	0.17	0.5	2.05	2.91	4.68	2.06
Mozambique	Hodgkin lymphoma	Incidence	0.09	0.22	1.37	0.93	1	0.47
Mozambique	Hodgkin lymphoma	Deaths	0.07	0.16	1.17	0.83	0.84	0.27
Myanmar	Leukemia	Incidence	5.31	4.22	-0.2	12.72	8.36	-1.58
Myanmar	Leukemia	Deaths	2.81	2.66	-0.05	8.17	5.53	-1.51
Myanmar	Multiple myeloma	Incidence	0.19	0.37	0.97	0.8	0.81	-0.06
Myanmar	Multiple myeloma	Deaths	0.18	0.33	0.88	0.77	0.74	-0.23
Myanmar	Non-Hodgkin lymphoma	Incidence	2.53	5.53	1.19	9.73	11.92	0.7
Myanmar	Non-Hodgkin lymphoma	Deaths	2.7	5.64	1.09	10.91	12.73	0.58
Myanmar	Hodgkin lymphoma	Incidence	0.2	0.21	0.04	0.59	0.39	-1.68
Myanmar	Hodgkin lymphoma	Deaths	0.16	0.14	-0.14	0.51	0.27	-2.34
Namibia	Leukemia	Incidence	0.03	0.06	1.03	2.81	3.33	0.68
Namibia	Leukemia	Deaths	0.02	0.04	0.95	2.35	2.53	0.26
Namibia	Multiple myeloma	Incidence	0.01	0.02	1.52	1.04	1.35	0.77

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Namibia	Multiple myeloma	Deaths	0.01	0.02	1.38	1	1.24	0.59
Namibia	Non-Hodgkin lymphoma	Incidence	0.02	0.06	1.73	2.74	3.66	0.84
Namibia	Non-Hodgkin lymphoma	Deaths	0.02	0.06	1.38	3.01	3.61	0.5
Namibia	Hodgkin lymphoma	Incidence	0.01	0.01	1.24	0.53	0.6	0.43
Namibia	Hodgkin lymphoma	Deaths	0	0.01	0.76	0.47	0.42	-0.32
Nauru	Leukemia	Incidence	0	0	-0.13	10.11	9.07	-0.51
Nauru	Leukemia	Deaths	0	0	-0.12	7.45	6.46	-0.65
Nauru	Multiple myeloma	Incidence	0	0	0.11	1.69	1.65	-0.36
Nauru	Multiple myeloma	Deaths	0	0	0.04	1.53	1.45	-0.43
Nauru	Non-Hodgkin lymphoma	Incidence	0	0	0.23	4.13	4.56	0.05
Nauru	Non-Hodgkin lymphoma	Deaths	0	0	0	4.04	3.85	-0.32
Nauru	Hodgkin lymphoma	Incidence	0	0	0.09	0.54	0.5	-0.4
Nauru	Hodgkin lymphoma	Deaths	0	0	-0.15	0.37	0.28	-0.84
Nepal	Leukemia	Incidence	0.87	0.89	0.02	4.7	3.59	-0.86
Nepal	Leukemia	Deaths	0.56	0.72	0.29	3.71	3.08	-0.59
Nepal	Multiple myeloma	Incidence	0.06	0.22	2.49	0.65	0.97	1.53
Nepal	Multiple myeloma	Deaths	0.06	0.19	2.38	0.63	0.91	1.39
Nepal	Non-Hodgkin lymphoma	Incidence	0.19	0.52	1.73	1.49	2.1	1.27
Nepal	Non-Hodgkin lymphoma	Deaths	0.21	0.46	1.14	1.65	2.05	0.87
Nepal	Hodgkin lymphoma	Incidence	0.12	0.14	0.23	0.77	0.51	-1.46
Nepal	Hodgkin lymphoma	Deaths	0.09	0.1	0.07	0.68	0.38	-1.95

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Netherlands	Leukemia	Incidence	2.11	3.97	0.88	12.36	15.3	0.66
Netherlands	Leukemia	Deaths	1.01	1.83	0.82	5.33	5.43	0.16
Netherlands	Multiple myeloma	Incidence	0.84	1.69	1.01	4.2	4.88	0.29
Netherlands	Multiple myeloma	Deaths	0.63	1.17	0.86	3.08	3.25	-0.07
Netherlands	Non-Hodgkin lymphoma	Incidence	2.45	4.08	0.67	12.72	12.38	-0.55
Netherlands	Non-Hodgkin lymphoma	Deaths	1.21	1.64	0.35	6.14	4.74	-1.39
Netherlands	Hodgkin lymphoma	Incidence	0.47	0.63	0.35	2.76	3.16	0.8
Netherlands	Hodgkin lymphoma	Deaths	0.11	0.09	-0.16	0.56	0.31	-1.95
New Zealand	Leukemia	Incidence	0.42	0.83	0.97	11.43	12.46	0.17
New Zealand	Leukemia	Deaths	0.23	0.38	0.63	6.12	5.05	-0.8
New Zealand	Multiple myeloma	Incidence	0.19	0.48	1.45	4.9	6.08	0.59
New Zealand	Multiple myeloma	Deaths	0.11	0.24	1.15	2.87	3.03	-0.06
New Zealand	Non-Hodgkin lymphoma	Incidence	0.44	0.84	0.92	11.28	11.22	-0.67
New Zealand	Non-Hodgkin lymphoma	Deaths	0.22	0.36	0.6	5.72	4.57	-1.4
New Zealand	Hodgkin lymphoma	Incidence	0.05	0.09	0.84	1.33	1.74	0.96
New Zealand	Hodgkin lymphoma	Deaths	0.02	0.02	0.15	0.48	0.33	-1.21
Nicaragua	Leukemia	Incidence	0.24	0.34	0.44	5.95	6.06	0.22
Nicaragua	Leukemia	Deaths	0.14	0.23	0.69	4.19	4.41	0.28
Nicaragua	Multiple myeloma	Incidence	0.01	0.04	3.02	0.66	0.94	0.9
Nicaragua	Multiple myeloma	Deaths	0.01	0.03	2.65	0.6	0.77	0.53
Nicaragua	Non-Hodgkin lymphoma	Incidence	0.05	0.18	2.87	1.75	3.6	3

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Nicaragua	Non-Hodgkin lymphoma	Deaths	0.04	0.11	2.04	1.69	2.51	1.58
Nicaragua	Hodgkin lymphoma	Incidence	0.01	0.04	1.74	0.5	0.64	0.99
Nicaragua	Hodgkin lymphoma	Deaths	0.01	0.02	0.8	0.41	0.34	-0.72
Niger	Leukemia	Incidence	0.37	0.94	1.52	4.48	4.43	0.09
Niger	Leukemia	Deaths	0.2	0.51	1.51	3.31	3.32	0.09
Niger	Multiple myeloma	Incidence	0.02	0.06	2.05	0.66	0.73	0.32
Niger	Multiple myeloma	Deaths	0.02	0.05	1.98	0.65	0.69	0.24
Niger	Non-Hodgkin lymphoma	Incidence	0.04	0.11	1.86	0.8	0.79	-0.18
Niger	Non-Hodgkin lymphoma	Deaths	0.04	0.09	1.29	0.87	0.8	-0.43
Niger	Hodgkin lymphoma	Incidence	0.02	0.04	1.51	0.3	0.26	-0.58
Niger	Hodgkin lymphoma	Deaths	0.01	0.03	1.36	0.27	0.23	-0.73
Nigeria	Leukemia	Incidence	2.61	5.2	1	3.48	3.46	0.17
Nigeria	Leukemia	Deaths	1.8	3.5	0.95	2.92	2.87	0.1
Nigeria	Multiple myeloma	Incidence	0.35	0.82	1.32	0.82	0.97	0.72
Nigeria	Multiple myeloma	Deaths	0.33	0.74	1.22	0.79	0.91	0.59
Nigeria	Non-Hodgkin lymphoma	Incidence	0.84	2.52	1.99	1.36	1.84	1.36
Nigeria	Non-Hodgkin lymphoma	Deaths	0.83	2	1.42	1.41	1.72	0.97
Nigeria	Hodgkin lymphoma	Incidence	0.84	2.06	1.46	1.35	1.33	0.07
Nigeria	Hodgkin lymphoma	Deaths	0.71	1.52	1.13	1.23	1.11	-0.3
Niue	Leukemia	Incidence	0	0	-0.28	7.11	6.58	-0.41
Niue	Leukemia	Deaths	0	0	-0.29	5.32	4.4	-0.84

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Niue	Multiple myeloma	Incidence	0	0	-0.01	1.39	1.37	-0.24
Niue	Multiple myeloma	Deaths	0	0	-0.09	1.22	1.12	-0.46
Niue	Non-Hodgkin lymphoma	Incidence	0	0	0.26	2.94	4.14	1.21
Niue	Non-Hodgkin lymphoma	Deaths	0	0	-0.03	2.6	2.75	0.16
Niue	Hodgkin lymphoma	Incidence	0	0	-0.15	0.47	0.47	-0.15
Niue	Hodgkin lymphoma	Deaths	0	0	-0.44	0.27	0.16	-1.92
North Macedonia	Leukemia	Incidence	0.14	0.24	0.76	7.09	8.61	0.72
North Macedonia	Leukemia	Deaths	0.09	0.13	0.48	4.69	4.57	-0.17
North Macedonia	Multiple myeloma	Incidence	0.02	0.04	1.1	0.93	1.13	0.71
North Macedonia	Multiple myeloma	Deaths	0.02	0.03	1.04	0.81	0.94	0.53
North Macedonia	Non-Hodgkin lymphoma	Incidence	0.05	0.12	1.24	2.74	4.22	1.45
North Macedonia	Non-Hodgkin lymphoma	Deaths	0.04	0.06	0.66	2.03	2.17	0.15
North Macedonia	Hodgkin lymphoma	Incidence	0.03	0.05	0.56	1.55	2.03	0.47
North Macedonia	Hodgkin lymphoma	Deaths	0.02	0.02	-0.12	0.91	0.56	-2.27
Northern Mariana Islands	Leukemia	Incidence	0	0	0	8.96	6.29	-1.5
Northern Mariana Islands	Leukemia	Deaths	0	0	0.04	7.16	4.39	-1.94
Northern Mariana Islands	Multiple myeloma	Incidence	0	0	1.37	3.04	2.35	-1.29
Northern Mariana Islands	Multiple myeloma	Deaths	0	0	1.33	2.56	1.92	-1.35
Northern Mariana Islands	Non-Hodgkin lymphoma	Incidence	0	0	1.75	3.23	5.46	2.16

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
<b>Islands</b>								
<b>Northern Mariana Islands</b>	<b>Non-Hodgkin lymphoma</b>	Deaths	0	0	1.75	2.38	3.41	1.85
<b>Northern Mariana Islands</b>	<b>Hodgkin lymphoma</b>	Incidence	0	0	0.55	0.34	0.41	0.48
<b>Northern Mariana Islands</b>	<b>Hodgkin lymphoma</b>	Deaths	0	0	0.45	0.14	0.13	0.06
<b>Norway</b>	<b>Leukemia</b>	Incidence	0.45	0.69	0.54	8.37	8.73	0.35
<b>Norway</b>	<b>Leukemia</b>	Deaths	0.25	0.29	0.16	3.97	3.07	-0.72
<b>Norway</b>	<b>Multiple myeloma</b>	Incidence	0.33	0.53	0.61	4.83	5.54	0.49
<b>Norway</b>	<b>Multiple myeloma</b>	Deaths	0.26	0.36	0.4	3.6	3.56	-0.08
<b>Norway</b>	<b>Non-Hodgkin lymphoma</b>	Incidence	0.72	0.92	0.27	11.3	9.78	-0.78
<b>Norway</b>	<b>Non-Hodgkin lymphoma</b>	Deaths	0.38	0.38	0	5.64	3.84	-1.63
<b>Norway</b>	<b>Hodgkin lymphoma</b>	Incidence	0.1	0.15	0.61	1.99	2.48	1.09
<b>Norway</b>	<b>Hodgkin lymphoma</b>	Deaths	0.03	0.02	-0.27	0.43	0.22	-2.04
<b>Oman</b>	<b>Leukemia</b>	Incidence	0.08	0.17	0.97	6.6	6.49	0.2
<b>Oman</b>	<b>Leukemia</b>	Deaths	0.05	0.09	0.73	5.37	4.45	-0.34
<b>Oman</b>	<b>Multiple myeloma</b>	Incidence	0.01	0.04	2.24	1.71	2.16	1.15
<b>Oman</b>	<b>Multiple myeloma</b>	Deaths	0.01	0.02	1.75	1.52	1.72	0.83
<b>Oman</b>	<b>Non-Hodgkin lymphoma</b>	Incidence	0.05	0.21	3.25	6.06	10.95	2.28
<b>Oman</b>	<b>Non-Hodgkin lymphoma</b>	Deaths	0.04	0.1	1.54	5.84	6.35	0.67
<b>Oman</b>	<b>Hodgkin lymphoma</b>	Incidence	0.01	0.07	3.56	1.08	1.56	1.45
<b>Oman</b>	<b>Hodgkin</b>	Deaths	0.01	0.01	0.49	0.73	0.4	-1.73

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
	<b>lymphoma</b>							
<b>Pakistan</b>	<b>Leukemia</b>	Incidence	5.69	10.83	0.91	5	5.48	0.37
<b>Pakistan</b>	<b>Leukemia</b>	Deaths	3.36	6.49	0.93	3.76	3.94	0.06
<b>Pakistan</b>	<b>Multiple myeloma</b>	Incidence	0.76	1.82	1.4	1.34	1.65	0.65
<b>Pakistan</b>	<b>Multiple myeloma</b>	Deaths	0.72	1.62	1.24	1.31	1.54	0.5
<b>Pakistan</b>	<b>Non-Hodgkin lymphoma</b>	Incidence	0.93	3.26	2.5	1.31	2.05	1.48
<b>Pakistan</b>	<b>Non-Hodgkin lymphoma</b>	Deaths	0.98	2.76	1.8	1.42	1.99	1.09
<b>Pakistan</b>	<b>Hodgkin lymphoma</b>	Incidence	1.43	3.29	1.3	1.66	1.67	-0.17
<b>Pakistan</b>	<b>Hodgkin lymphoma</b>	Deaths	1.15	2.27	0.97	1.45	1.28	-0.63
<b>Palau</b>	<b>Leukemia</b>	Incidence	0	0	0.53	3.19	2.97	-0.19
<b>Palau</b>	<b>Leukemia</b>	Deaths	0	0	0.55	2.59	2.28	-0.39
<b>Palau</b>	<b>Multiple myeloma</b>	Incidence	0	0	1.33	0.7	0.73	0.05
<b>Palau</b>	<b>Multiple myeloma</b>	Deaths	0	0	1.18	0.59	0.59	-0.07
<b>Palau</b>	<b>Non-Hodgkin lymphoma</b>	Incidence	0	0	1.17	2.21	2.8	0.71
<b>Palau</b>	<b>Non-Hodgkin lymphoma</b>	Deaths	0	0	0.87	1.82	1.83	-0.01
<b>Palau</b>	<b>Hodgkin lymphoma</b>	Incidence	0	0	0.79	0.27	0.29	0.29
<b>Palau</b>	<b>Hodgkin lymphoma</b>	Deaths	0	0	0.37	0.15	0.11	-0.8
<b>Palestine</b>	<b>Leukemia</b>	Incidence	0.21	0.32	0.5	12.51	9.52	-0.94
<b>Palestine</b>	<b>Leukemia</b>	Deaths	0.11	0.19	0.76	9.4	7.27	-0.98
<b>Palestine</b>	<b>Multiple myeloma</b>	Incidence	0.01	0.04	2	1.73	1.9	0.4
<b>Palestine</b>	<b>Multiple myeloma</b>	Deaths	0.01	0.04	1.72	1.53	1.57	0.16

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Palestine	Non-Hodgkin lymphoma	Incidence	0.04	0.14	2.35	3.55	4.67	0.69
Palestine	Non-Hodgkin lymphoma	Deaths	0.03	0.08	1.46	3.41	3.3	-0.32
Palestine	Hodgkin lymphoma	Incidence	0.01	0.05	3.06	0.96	1.31	0.9
Palestine	Hodgkin lymphoma	Deaths	0.01	0.02	1.46	0.71	0.63	-0.45
Panama	Leukemia	Incidence	0.13	0.27	1.13	5.96	6.53	0.45
Panama	Leukemia	Deaths	0.09	0.19	1	4.69	4.46	0.02
Panama	Multiple myeloma	Incidence	0.02	0.08	2.48	1.52	1.89	0.35
Panama	Multiple myeloma	Deaths	0.02	0.06	2.2	1.32	1.49	0.06
Panama	Non-Hodgkin lymphoma	Incidence	0.06	0.2	2.3	3.42	4.78	0.99
Panama	Non-Hodgkin lymphoma	Deaths	0.05	0.12	1.54	3.02	3	0
Panama	Hodgkin lymphoma	Incidence	0.01	0.03	2.35	0.41	0.68	2.17
Panama	Hodgkin lymphoma	Deaths	0	0.01	1.08	0.26	0.25	0.45
Papua New Guinea	Leukemia	Incidence	0.26	0.59	1.29	6.63	6.59	0.02
Papua New Guinea	Leukemia	Deaths	0.14	0.32	1.29	4.57	4.5	-0.05
Papua New Guinea	Multiple myeloma	Incidence	0.02	0.04	1.61	0.89	0.91	0.06
Papua New Guinea	Multiple myeloma	Deaths	0.01	0.04	1.57	0.85	0.86	0.05
Papua New Guinea	Non-Hodgkin lymphoma	Incidence	0.02	0.05	1.73	0.79	0.86	0.23
Papua New Guinea	Non-Hodgkin lymphoma	Deaths	0.02	0.05	1.63	0.88	0.95	0.21
Papua New Guinea	Hodgkin lymphoma	Incidence	0.01	0.02	1.22	0.37	0.33	-0.35
Papua New Guinea	Hodgkin lymphoma	Deaths	0.01	0.02	1.13	0.32	0.27	-0.41
Paraguay	Leukemia	Incidence	0.25	0.38	0.49	6.41	6.06	-0.35



Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Paraguay	Leukemia	Deaths	0.14	0.27	0.92	4.37	4.52	0.1
Paraguay	Multiple myeloma	Incidence	0.02	0.07	2.25	0.94	1.22	0.72
Paraguay	Multiple myeloma	Deaths	0.02	0.05	2	0.83	0.99	0.48
Paraguay	Non-Hodgkin lymphoma	Incidence	0.06	0.23	3.12	1.97	3.89	2.37
Paraguay	Non-Hodgkin lymphoma	Deaths	0.05	0.16	2.33	1.93	2.87	1.48
Paraguay	Hodgkin lymphoma	Incidence	0.02	0.05	1.72	0.55	0.73	0.97
Paraguay	Hodgkin lymphoma	Deaths	0.01	0.02	0.89	0.4	0.36	-0.18
Peru	Leukemia	Incidence	1.46	2.18	0.5	6.93	6.59	-0.05
Peru	Leukemia	Deaths	0.87	1.45	0.68	4.81	4.4	-0.18
Peru	Multiple myeloma	Incidence	0.19	0.51	1.74	1.58	1.6	0.25
Peru	Multiple myeloma	Deaths	0.17	0.41	1.44	1.46	1.3	-0.23
Peru	Non-Hodgkin lymphoma	Incidence	0.55	2.1	2.8	3.7	6.45	2.16
Peru	Non-Hodgkin lymphoma	Deaths	0.52	1.44	1.76	3.82	4.46	0.61
Peru	Hodgkin lymphoma	Incidence	0.09	0.16	0.92	0.51	0.49	-0.04
Peru	Hodgkin lymphoma	Deaths	0.07	0.08	0.17	0.43	0.23	-2.03
Philippines	Leukemia	Incidence	5.36	6.95	0.3	9.38	6.79	-1.14
Philippines	Leukemia	Deaths	2.93	4.21	0.44	6.57	4.55	-1.49
Philippines	Multiple myeloma	Incidence	0.21	0.55	1.58	0.71	0.69	-0.27
Philippines	Multiple myeloma	Deaths	0.19	0.47	1.5	0.66	0.61	-0.38
Philippines	Non-Hodgkin lymphoma	Incidence	1.2	2.72	1.28	2.82	2.98	0.01
Philippines	Non-Hodgkin lymphoma	Deaths	1.01	2.18	1.16	2.71	2.58	-0.33

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Philippines	Hodgkin lymphoma	Incidence	0.15	0.25	0.67	0.3	0.25	-0.89
Philippines	Hodgkin lymphoma	Deaths	0.09	0.14	0.49	0.22	0.15	-1.34
Poland	Leukemia	Incidence	3.15	6.33	1.01	7.82	10.3	1.19
Poland	Leukemia	Deaths	2.49	3.45	0.39	6	5.21	-0.51
Poland	Multiple myeloma	Incidence	0.67	1.66	1.48	1.51	2.38	1.54
Poland	Multiple myeloma	Deaths	0.64	1.62	1.52	1.46	2.27	1.47
Poland	Non-Hodgkin lymphoma	Incidence	1.44	4.21	1.93	3.42	6.71	2.24
Poland	Non-Hodgkin lymphoma	Deaths	1.05	2.21	1.09	2.47	3.31	0.81
Poland	Hodgkin lymphoma	Incidence	0.9	0.8	-0.11	2.23	1.93	-0.86
Poland	Hodgkin lymphoma	Deaths	0.55	0.24	-0.55	1.31	0.43	-4.43
Portugal	Leukemia	Incidence	1.06	2.4	1.26	9.64	13.54	1.14
Portugal	Leukemia	Deaths	0.73	1.07	0.48	5.96	4.65	-1.08
Portugal	Multiple myeloma	Incidence	0.26	0.64	1.49	1.82	2.67	1.05
Portugal	Multiple myeloma	Deaths	0.25	0.66	1.59	1.81	2.59	0.99
Portugal	Non-Hodgkin lymphoma	Incidence	0.75	2.1	1.8	5.95	9.78	1.42
Portugal	Non-Hodgkin lymphoma	Deaths	0.46	0.95	1.06	3.54	4.04	0.21
Portugal	Hodgkin lymphoma	Incidence	0.17	0.27	0.63	1.52	2.16	0.59
Portugal	Hodgkin lymphoma	Deaths	0.07	0.06	-0.23	0.59	0.31	-2.74
Puerto Rico	Leukemia	Incidence	0.25	0.37	0.52	6.88	6.76	-0.06
Puerto Rico	Leukemia	Deaths	0.19	0.27	0.39	5.38	4.06	-1.11
Puerto Rico	Multiple myeloma	Incidence	0.12	0.31	1.49	3.37	4.27	0.8

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Puerto Rico	Multiple myeloma	Deaths	0.09	0.2	1.2	2.56	2.77	0.19
Puerto Rico	Non-Hodgkin lymphoma	Incidence	0.26	0.46	0.76	7.16	7.45	0.1
Puerto Rico	Non-Hodgkin lymphoma	Deaths	0.18	0.25	0.38	5.02	3.74	-1.15
Puerto Rico	Hodgkin lymphoma	Incidence	0.06	0.09	0.6	1.51	2.14	1.22
Puerto Rico	Hodgkin lymphoma	Deaths	0.02	0.02	-0.08	0.66	0.42	-1.89
Qatar	Leukemia	Incidence	0.02	0.13	5.8	9.6	13.28	1.46
Qatar	Leukemia	Deaths	0.01	0.06	3.67	8.04	8.54	0.36
Qatar	Multiple myeloma	Incidence	0	0.02	8.39	1.6	1.93	1
Qatar	Multiple myeloma	Deaths	0	0.01	6.63	1.42	1.54	0.56
Qatar	Non-Hodgkin lymphoma	Incidence	0.01	0.1	9.65	6.2	11.04	2.57
Qatar	Non-Hodgkin lymphoma	Deaths	0.01	0.04	4.92	5.87	5.97	0.3
Qatar	Hodgkin lymphoma	Incidence	0	0.03	15.19	0.53	0.95	2.56
Qatar	Hodgkin lymphoma	Deaths	0	0	3.25	0.37	0.21	-2.02
Republic of Korea	Leukemia	Incidence	3.1	5.98	0.93	7.8	9.19	0.64
Republic of Korea	Leukemia	Deaths	1.75	2.05	0.17	4.6	2.69	-2.07
Republic of Korea	Multiple myeloma	Incidence	0.37	1.63	3.36	1.28	1.81	1.77
Republic of Korea	Multiple myeloma	Deaths	0.31	1.11	2.58	1.1	1.23	0.91
Republic of Korea	Non-Hodgkin lymphoma	Incidence	1.16	5.46	3.69	3.09	6.7	1.94
Republic of Korea	Non-Hodgkin lymphoma	Deaths	0.73	2.33	2.19	2.16	2.74	0.16
Republic of Korea	Hodgkin lymphoma	Incidence	0.15	1.58	9.43	0.44	2.03	5.82
Republic of Korea	Hodgkin lymphoma	Deaths	0.04	0.06	0.69	0.1	0.07	-0.62

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Republic of Moldova	Leukemia	Incidence	0.48	0.21	-0.57	10.89	5.01	-2.37
Republic of Moldova	Leukemia	Deaths	0.27	0.14	-0.48	6.03	2.9	-2.21
Republic of Moldova	Multiple myeloma	Incidence	0.03	0.07	0.95	0.76	1.16	1.74
Republic of Moldova	Multiple myeloma	Deaths	0.03	0.05	0.76	0.61	0.81	1.24
Republic of Moldova	Non-Hodgkin lymphoma	Incidence	0.12	0.2	0.68	2.65	4.2	1.71
Republic of Moldova	Non-Hodgkin lymphoma	Deaths	0.08	0.12	0.46	1.86	2.35	0.83
Republic of Moldova	Hodgkin lymphoma	Incidence	0.1	0.08	-0.2	2.15	1.95	-0.83
Republic of Moldova	Hodgkin lymphoma	Deaths	0.05	0.03	-0.45	1.09	0.57	-2.78
Romania	Leukemia	Incidence	1.53	2.13	0.4	6.3	7.36	0.72
Romania	Leukemia	Deaths	1.08	1.33	0.24	4.27	4.16	0.03
Romania	Multiple myeloma	Incidence	0.29	0.53	0.82	1.01	1.48	1.43
Romania	Multiple myeloma	Deaths	0.24	0.44	0.81	0.86	1.21	1.25
Romania	Non-Hodgkin lymphoma	Incidence	0.78	1.53	0.96	3.11	5.31	2.08
Romania	Non-Hodgkin lymphoma	Deaths	0.54	0.82	0.51	2.09	2.57	0.89
Romania	Hodgkin lymphoma	Incidence	0.41	0.33	-0.19	1.66	1.59	-0.43
Romania	Hodgkin lymphoma	Deaths	0.23	0.1	-0.54	0.89	0.38	-3.41
Russian Federation	Leukemia	Incidence	10.28	14.27	0.39	6.32	7.09	0.26
Russian Federation	Leukemia	Deaths	7.31	7.43	0.02	4.39	3.55	-1.01
Russian Federation	Multiple myeloma	Incidence	2.11	3.51	0.66	1.14	1.5	1.08
Russian Federation	Multiple myeloma	Deaths	1.72	2.72	0.59	0.94	1.15	0.8
Russian Federation	Non-Hodgkin lymphoma	Incidence	5.49	8.72	0.59	3.33	4.26	1.11

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Russian Federation	Non-Hodgkin lymphoma	Deaths	3.62	4.7	0.3	2.11	2.15	0.04
Russian Federation	Hodgkin lymphoma	Incidence	3.65	4.07	0.11	2.33	2.65	0.2
Russian Federation	Hodgkin lymphoma	Deaths	1.38	0.85	-0.39	0.83	0.45	-2.88
Rwanda	Leukemia	Incidence	0.43	0.52	0.21	5.34	4.67	-0.56
Rwanda	Leukemia	Deaths	0.23	0.29	0.26	3.83	3.25	-0.88
Rwanda	Multiple myeloma	Incidence	0.05	0.09	0.85	1.6	1.46	-0.83
Rwanda	Multiple myeloma	Deaths	0.04	0.08	0.77	1.59	1.4	-0.97
Rwanda	Non-Hodgkin lymphoma	Incidence	0.1	0.21	1.06	2.9	2.99	-0.28
Rwanda	Non-Hodgkin lymphoma	Deaths	0.11	0.21	0.83	3.33	3.36	-0.37
Rwanda	Hodgkin lymphoma	Incidence	0.05	0.08	0.54	0.98	0.76	-1.37
Rwanda	Hodgkin lymphoma	Deaths	0.04	0.06	0.37	0.85	0.59	-1.76
Saint Kitts and Nevis	Leukemia	Incidence	0	0	0.08	8.67	6.22	-0.65
Saint Kitts and Nevis	Leukemia	Deaths	0	0	0.05	6.01	4.06	-0.99
Saint Kitts and Nevis	Multiple myeloma	Incidence	0	0	1.28	3.78	5.04	0.93
Saint Kitts and Nevis	Multiple myeloma	Deaths	0	0	0.97	3.03	3.63	0.63
Saint Kitts and Nevis	Non-Hodgkin lymphoma	Incidence	0	0	0.5	8.26	7.35	-0.18
Saint Kitts and Nevis	Non-Hodgkin lymphoma	Deaths	0	0	0.17	6.82	4.58	-1.28
Saint Kitts and Nevis	Hodgkin lymphoma	Incidence	0	0	2.18	0.13	0.25	2.37
Saint Kitts and Nevis	Hodgkin lymphoma	Deaths	0	0	1.1	0.08	0.1	0.77
Saint Lucia	Leukemia	Incidence	0.01	0.01	0.41	6.7	5.89	-0.58
Saint Lucia	Leukemia	Deaths	0.01	0.01	0.51	5.17	4.15	-0.97

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Saint Lucia	Multiple myeloma	Incidence	0	0.01	2.3	3.91	5.21	0.65
Saint Lucia	Multiple myeloma	Deaths	0	0.01	1.99	3.29	3.97	0.3
Saint Lucia	Non-Hodgkin lymphoma	Incidence	0.01	0.02	1.01	7.43	7.66	-0.09
Saint Lucia	Non-Hodgkin lymphoma	Deaths	0.01	0.01	0.62	7.07	5.31	-1.2
Saint Lucia	Hodgkin lymphoma	Incidence	0	0	1.07	0.9	1.06	0.61
Saint Lucia	Hodgkin lymphoma	Deaths	0	0	0.52	0.65	0.5	-0.89
Saint Vincent and the Grenadines	Leukemia	Incidence	0.01	0.01	0.03	7.5	6.5	-0.61
Saint Vincent and the Grenadines	Leukemia	Deaths	0	0.01	0.27	5.18	4.72	-0.46
Saint Vincent and the Grenadines	Multiple myeloma	Incidence	0	0	1.51	1.64	2.19	1.01
Saint Vincent and the Grenadines	Multiple myeloma	Deaths	0	0	1.38	1.37	1.75	0.86
Saint Vincent and the Grenadines	Non-Hodgkin lymphoma	Incidence	0.01	0.01	0.55	8.24	8.82	0.22
Saint Vincent and the Grenadines	Non-Hodgkin lymphoma	Deaths	0.01	0.01	0.5	7.48	6.95	-0.26
Saint Vincent and the Grenadines	Hodgkin lymphoma	Incidence	0	0	1.82	0.42	0.9	1.3
Saint Vincent and the Grenadines	Hodgkin lymphoma	Deaths	0	0	1.62	0.3	0.52	0.63

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
<b>the Grenadines</b>								
<b>Samoa</b>	<b>Leukemia</b>	Incidence	0.01	0.01	0.21	6.74	5.92	-0.47
<b>Samoa</b>	<b>Leukemia</b>	Deaths	0.01	0.01	0.27	5.38	4.63	-0.52
<b>Samoa</b>	<b>Multiple myeloma</b>	Incidence	0	0	0.52	1.07	0.98	-0.55
<b>Samoa</b>	<b>Multiple myeloma</b>	Deaths	0	0	0.46	0.97	0.86	-0.65
<b>Samoa</b>	<b>Non-Hodgkin lymphoma</b>	Incidence	0	0	0.83	2.41	2.91	0.59
<b>Samoa</b>	<b>Non-Hodgkin lymphoma</b>	Deaths	0	0	0.64	2.45	2.56	0.2
<b>Samoa</b>	<b>Hodgkin lymphoma</b>	Incidence	0	0	0.34	1.98	1.81	-0.4
<b>Samoa</b>	<b>Hodgkin lymphoma</b>	Deaths	0	0	0.08	1.38	1	-1.01
<b>San Marino</b>	<b>Leukemia</b>	Incidence	0.01	0.02	1.66	22.33	35.14	1.74
<b>San Marino</b>	<b>Leukemia</b>	Deaths	0	0.01	0.95	8.74	8.22	0.03
<b>San Marino</b>	<b>Multiple myeloma</b>	Incidence	0	0	1.19	4.53	5.17	0.71
<b>San Marino</b>	<b>Multiple myeloma</b>	Deaths	0	0	1.2	3.38	3.62	0.57
<b>San Marino</b>	<b>Non-Hodgkin lymphoma</b>	Incidence	0.01	0.01	1.21	20.78	23.79	0.7
<b>San Marino</b>	<b>Non-Hodgkin lymphoma</b>	Deaths	0	0.01	0.97	9.9	9.56	0.17
<b>San Marino</b>	<b>Hodgkin lymphoma</b>	Incidence	0	0	0.99	5.67	7.59	0.93
<b>San Marino</b>	<b>Hodgkin lymphoma</b>	Deaths	0	0	0.28	1.18	0.84	-1.26
<b>Sao Tome and Principe</b>	<b>Leukemia</b>	Incidence	0	0.01	0.52	3.31	3.58	0.18
<b>Sao Tome and Principe</b>	<b>Leukemia</b>	Deaths	0	0	0.58	2.64	2.82	0.16
<b>Sao Tome and Principe</b>	<b>Multiple myeloma</b>	Incidence	0	0	1.42	0.69	1.04	1.39
<b>Sao Tome and Principe</b>	<b>Multiple myeloma</b>	Deaths	0	0	1.26	0.66	0.95	1.24

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Sao Tome and Principe	Non-Hodgkin lymphoma	Incidence	0	0	1.18	2.24	3.1	0.84
Sao Tome and Principe	Non-Hodgkin lymphoma	Deaths	0	0	0.94	2.3	2.97	0.59
Sao Tome and Principe	Hodgkin lymphoma	Incidence	0	0	0.96	0.08	0.09	0.25
Sao Tome and Principe	Hodgkin lymphoma	Deaths	0	0	0.6	0.07	0.07	-0.22
Saudi Arabia	Leukemia	Incidence	0.44	1.38	2.14	4.41	5.36	0.47
Saudi Arabia	Leukemia	Deaths	0.35	0.77	1.2	4.26	3.43	-1.04
Saudi Arabia	Multiple myeloma	Incidence	0.05	0.25	3.7	0.92	1.3	1.16
Saudi Arabia	Multiple myeloma	Deaths	0.05	0.17	2.29	0.95	1.01	0
Saudi Arabia	Non-Hodgkin lymphoma	Incidence	0.31	1.77	4.62	4.25	8.33	2.19
Saudi Arabia	Non-Hodgkin lymphoma	Deaths	0.31	0.88	1.79	4.95	4.78	-0.51
Saudi Arabia	Hodgkin lymphoma	Incidence	0.06	0.42	6.23	0.51	1.11	3.05
Saudi Arabia	Hodgkin lymphoma	Deaths	0.04	0.09	1.16	0.43	0.3	-1.14
Senegal	Leukemia	Incidence	0.28	0.51	0.81	4.19	4.37	0.49
Senegal	Leukemia	Deaths	0.18	0.35	0.97	3.38	3.54	0.46
Senegal	Multiple myeloma	Incidence	0.02	0.06	1.64	0.75	0.85	0.63
Senegal	Multiple myeloma	Deaths	0.02	0.06	1.56	0.72	0.8	0.53
Senegal	Non-Hodgkin lymphoma	Incidence	0.12	0.28	1.42	2.56	2.79	0.13
Senegal	Non-Hodgkin lymphoma	Deaths	0.12	0.25	1.07	2.76	2.82	-0.13
Senegal	Hodgkin lymphoma	Incidence	0.02	0.04	1.28	0.33	0.35	0.45
Senegal	Hodgkin lymphoma	Deaths	0.01	0.03	1.17	0.3	0.3	0.31
Serbia	Leukemia	Incidence	0.83	1.07	0.29	8.61	7.92	-0.15



Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Serbia	Leukemia	Deaths	0.56	0.73	0.3	5.47	4.93	-0.22
Serbia	Multiple myeloma	Incidence	0.14	0.25	0.73	1.23	1.53	1.02
Serbia	Multiple myeloma	Deaths	0.14	0.25	0.76	1.27	1.55	0.95
Serbia	Non-Hodgkin lymphoma	Incidence	0.41	0.9	1.22	3.83	6.34	2.23
Serbia	Non-Hodgkin lymphoma	Deaths	0.3	0.48	0.63	2.73	3.23	0.98
Serbia	Hodgkin lymphoma	Incidence	0.18	0.29	0.56	1.81	2.71	1.55
Serbia	Hodgkin lymphoma	Deaths	0.09	0.07	-0.27	0.85	0.51	-1.89
Seychelles	Leukemia	Incidence	0.01	0.01	0.73	8.95	9.34	0.13
Seychelles	Leukemia	Deaths	0	0.01	0.5	7.1	6.36	-0.44
Seychelles	Multiple myeloma	Incidence	0	0	1.58	1.74	2.31	1.05
Seychelles	Multiple myeloma	Deaths	0	0	1.35	1.56	1.94	0.84
Seychelles	Non-Hodgkin lymphoma	Incidence	0	0.01	2.71	3.99	8.33	2.29
Seychelles	Non-Hodgkin lymphoma	Deaths	0	0.01	1.8	3.9	5.96	1.17
Seychelles	Hodgkin lymphoma	Incidence	0	0	0.96	0.88	1.05	0.41
Seychelles	Hodgkin lymphoma	Deaths	0	0	0.25	0.57	0.41	-1.28
Sierra Leone	Leukemia	Incidence	0.16	0.36	1.19	4.32	4.89	0.79
Sierra Leone	Leukemia	Deaths	0.1	0.21	1.12	3.27	3.6	0.63
Sierra Leone	Multiple myeloma	Incidence	0.01	0.03	1.09	0.72	0.8	0.5
Sierra Leone	Multiple myeloma	Deaths	0.01	0.03	0.99	0.7	0.75	0.4
Sierra Leone	Non-Hodgkin lymphoma	Incidence	0.05	0.13	1.34	2.21	2.38	0.06
Sierra Leone	Non-Hodgkin lymphoma	Deaths	0.06	0.12	0.92	2.45	2.44	-0.21

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Sierra Leone	Hodgkin lymphoma	Incidence	0.01	0.02	1.39	0.3	0.32	0.43
Sierra Leone	Hodgkin lymphoma	Deaths	0.01	0.02	1.19	0.27	0.28	0.3
Singapore	Leukemia	Incidence	0.17	0.55	2.18	6.84	8.7	1.28
Singapore	Leukemia	Deaths	0.11	0.19	0.7	4.53	2.75	-1.7
Singapore	Multiple myeloma	Incidence	0.03	0.1	2.62	1.35	1.35	-0.01
Singapore	Multiple myeloma	Deaths	0.02	0.07	2.1	1.11	0.93	-0.65
Singapore	Non-Hodgkin lymphoma	Incidence	0.14	0.5	2.44	5.92	6.9	0.37
Singapore	Non-Hodgkin lymphoma	Deaths	0.08	0.21	1.55	3.62	2.83	-1.06
Singapore	Hodgkin lymphoma	Incidence	0.03	0.16	3.58	1.34	2.23	2.69
Singapore	Hodgkin lymphoma	Deaths	0	0.01	0.52	0.15	0.08	-1.45
Slovakia	Leukemia	Incidence	0.43	0.75	0.74	7.56	9.49	0.96
Slovakia	Leukemia	Deaths	0.32	0.38	0.18	5.53	4.46	-0.57
Slovakia	Multiple myeloma	Incidence	0.17	0.33	0.94	2.85	3.57	0.96
Slovakia	Multiple myeloma	Deaths	0.1	0.18	0.78	1.67	1.91	0.54
Slovakia	Non-Hodgkin lymphoma	Incidence	0.27	0.7	1.6	4.62	8.19	2.41
Slovakia	Non-Hodgkin lymphoma	Deaths	0.18	0.35	0.99	3.01	3.94	1.4
Slovakia	Hodgkin lymphoma	Incidence	0.11	0.15	0.45	1.92	2.54	1.08
Slovakia	Hodgkin lymphoma	Deaths	0.05	0.03	-0.25	0.79	0.44	-1.94
Slovenia	Leukemia	Incidence	0.2	0.47	1.32	8.93	12.92	1.45
Slovenia	Leukemia	Deaths	0.13	0.19	0.5	5.56	4.58	-0.62
Slovenia	Multiple myeloma	Incidence	0.06	0.14	1.37	2.41	3.26	1.06

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Slovenia	Multiple myeloma	Deaths	0.05	0.12	1.34	2.02	2.55	0.79
Slovenia	Non-Hodgkin lymphoma	Incidence	0.13	0.44	2.49	5.4	10.58	2.64
Slovenia	Non-Hodgkin lymphoma	Deaths	0.08	0.2	1.65	3.18	4.48	1.38
Slovenia	Hodgkin lymphoma	Incidence	0.04	0.06	0.43	1.9	2.57	1.39
Slovenia	Hodgkin lymphoma	Deaths	0.01	0.01	-0.31	0.55	0.25	-2.75
Solomon Islands	Leukemia	Incidence	0.02	0.05	1	8.98	9.03	-0.02
Solomon Islands	Leukemia	Deaths	0.01	0.03	1.03	7.05	6.83	-0.14
Solomon Islands	Multiple myeloma	Incidence	0	0.01	1.3	1.52	1.56	0.03
Solomon Islands	Multiple myeloma	Deaths	0	0	1.22	1.41	1.41	-0.05
Solomon Islands	Non-Hodgkin lymphoma	Incidence	0.01	0.03	1.58	6.7	7.7	0.34
Solomon Islands	Non-Hodgkin lymphoma	Deaths	0.01	0.03	1.3	7.01	7.57	0.14
Solomon Islands	Hodgkin lymphoma	Incidence	0	0	1.06	0.6	0.54	-0.32
Solomon Islands	Hodgkin lymphoma	Deaths	0	0	0.8	0.51	0.4	-0.66
Somalia	Leukemia	Incidence	0.42	1.01	1.4	5.13	4.82	0.13
Somalia	Leukemia	Deaths	0.2	0.51	1.51	3.5	3.49	0.24
Somalia	Multiple myeloma	Incidence	0.03	0.08	1.64	1.18	1.19	0.17
Somalia	Multiple myeloma	Deaths	0.03	0.07	1.67	1.18	1.19	0.19
Somalia	Non-Hodgkin lymphoma	Incidence	0.06	0.16	1.95	1.87	1.89	0.2
Somalia	Non-Hodgkin lymphoma	Deaths	0.06	0.17	1.72	2.18	2.16	0.17
Somalia	Hodgkin lymphoma	Incidence	0.05	0.15	2.24	0.94	1.01	0.24
Somalia	Hodgkin lymphoma	Deaths	0.04	0.12	2.17	0.85	0.91	0.24

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
South Africa	Leukemia	Incidence	1.46	2.09	0.43	4.92	4.37	-0.46
South Africa	Leukemia	Deaths	0.96	1.49	0.56	3.72	3.34	-0.41
South Africa	Multiple myeloma	Incidence	0.35	0.9	1.55	1.68	2.01	0.6
South Africa	Multiple myeloma	Deaths	0.31	0.78	1.49	1.54	1.81	0.52
South Africa	Non-Hodgkin lymphoma	Incidence	0.91	2.04	1.23	3.35	4.02	0.72
South Africa	Non-Hodgkin lymphoma	Deaths	0.84	1.76	1.09	3.35	3.66	0.46
South Africa	Hodgkin lymphoma	Incidence	0.13	0.21	0.66	0.4	0.38	-0.43
South Africa	Hodgkin lymphoma	Deaths	0.09	0.13	0.47	0.32	0.26	-0.85
South Sudan	Leukemia	Incidence	0.47	0.51	0.1	6.17	5.05	-0.41
South Sudan	Leukemia	Deaths	0.21	0.25	0.19	3.74	3.34	-0.22
South Sudan	Multiple myeloma	Incidence	0.02	0.04	0.57	1.05	1.04	0.02
South Sudan	Multiple myeloma	Deaths	0.02	0.04	0.54	1.04	1.04	0
South Sudan	Non-Hodgkin lymphoma	Incidence	0.09	0.14	0.62	3.21	3.17	0.07
South Sudan	Non-Hodgkin lymphoma	Deaths	0.11	0.16	0.45	3.85	3.73	0.03
South Sudan	Hodgkin lymphoma	Incidence	0.03	0.04	0.62	0.66	0.65	-0.11
South Sudan	Hodgkin lymphoma	Deaths	0.02	0.04	0.58	0.59	0.58	-0.17
Spain	Leukemia	Incidence	4.84	10.96	1.27	11.27	16.1	1.08
Spain	Leukemia	Deaths	2.72	4.19	0.54	5.58	4.42	-0.81
Spain	Multiple myeloma	Incidence	1.76	3.57	1.02	3.19	3.67	0.14
Spain	Multiple myeloma	Deaths	1.15	2.37	1.06	2.07	2.27	0
Spain	Non-Hodgkin lymphoma	Incidence	3.96	7.89	0.99	8.02	8.87	-0.12

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Spain	Non-Hodgkin lymphoma	Deaths	2.01	3.28	0.63	3.9	3.36	-0.99
Spain	Hodgkin lymphoma	Incidence	1.15	1.8	0.56	2.68	3.11	0.55
Spain	Hodgkin lymphoma	Deaths	0.31	0.24	-0.23	0.66	0.31	-2.6
Sri Lanka	Leukemia	Incidence	1.04	1.3	0.25	6.88	5.75	-0.74
Sri Lanka	Leukemia	Deaths	0.66	0.89	0.34	4.95	3.84	-0.91
Sri Lanka	Multiple myeloma	Incidence	0.11	0.29	1.61	1.05	1.13	0.49
Sri Lanka	Multiple myeloma	Deaths	0.1	0.23	1.36	0.95	0.91	0.11
Sri Lanka	Non-Hodgkin lymphoma	Incidence	0.25	1.01	3.04	1.92	4.14	3.2
Sri Lanka	Non-Hodgkin lymphoma	Deaths	0.21	0.61	1.86	1.83	2.5	1.64
Sri Lanka	Hodgkin lymphoma	Incidence	0.17	0.28	0.67	1.13	1.19	-0.47
Sri Lanka	Hodgkin lymphoma	Deaths	0.1	0.08	-0.16	0.74	0.34	-3.21
Sudan	Leukemia	Incidence	2.26	2.84	0.25	10.35	8.76	-0.38
Sudan	Leukemia	Deaths	1.1	1.69	0.53	6.94	6.44	-0.1
Sudan	Multiple myeloma	Incidence	0.1	0.24	1.43	1.05	1.29	0.72
Sudan	Multiple myeloma	Deaths	0.09	0.2	1.24	1	1.16	0.53
Sudan	Non-Hodgkin lymphoma	Incidence	0.2	0.62	2.16	1.64	2.32	1.3
Sudan	Non-Hodgkin lymphoma	Deaths	0.21	0.47	1.26	1.79	2.11	0.72
Sudan	Hodgkin lymphoma	Incidence	0.12	0.26	1.2	0.85	0.8	-0.14
Sudan	Hodgkin lymphoma	Deaths	0.09	0.15	0.58	0.74	0.54	-0.94
Suriname	Leukemia	Incidence	0.02	0.03	0.57	5.28	5.15	-0.12
Suriname	Leukemia	Deaths	0.01	0.02	0.78	3.71	3.65	-0.13

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Suriname	Multiple myeloma	Incidence	0	0.01	2.1	1.88	2.49	0.98
Suriname	Multiple myeloma	Deaths	0	0.01	1.9	1.66	2.04	0.75
Suriname	Non-Hodgkin lymphoma	Incidence	0.01	0.03	1.17	3.98	4.59	0.48
Suriname	Non-Hodgkin lymphoma	Deaths	0.01	0.02	1.01	3.83	3.8	-0.03
Suriname	Hodgkin lymphoma	Incidence	0	0.01	1.09	0.71	0.85	0.59
Suriname	Hodgkin lymphoma	Deaths	0	0	0.83	0.55	0.54	-0.11
Sweden	Leukemia	Incidence	1.45	2.26	0.56	12.41	13.62	-0.13
Sweden	Leukemia	Deaths	0.7	0.93	0.33	5	4.32	-0.45
Sweden	Multiple myeloma	Incidence	0.55	0.83	0.52	3.6	3.99	0.25
Sweden	Multiple myeloma	Deaths	0.47	0.66	0.42	2.91	2.92	-0.11
Sweden	Non-Hodgkin lymphoma	Incidence	1.55	2.13	0.38	10.8	9.96	-0.78
Sweden	Non-Hodgkin lymphoma	Deaths	0.77	0.9	0.16	5.17	3.98	-1.32
Sweden	Hodgkin lymphoma	Incidence	0.16	0.22	0.34	1.58	1.88	0.77
Sweden	Hodgkin lymphoma	Deaths	0.05	0.04	-0.25	0.37	0.21	-1.8
Switzerland	Leukemia	Incidence	1.45	1.78	0.22	17.6	13.3	-1.25
Switzerland	Leukemia	Deaths	0.63	0.63	0	6.63	3.69	-1.73
Switzerland	Multiple myeloma	Incidence	0.26	0.73	1.79	2.53	4.18	1.08
Switzerland	Multiple myeloma	Deaths	0.18	0.47	1.56	1.71	2.54	0.77
Switzerland	Non-Hodgkin lymphoma	Incidence	0.45	1.59	2.51	4.69	9.27	1.36
Switzerland	Non-Hodgkin lymphoma	Deaths	0.22	0.66	2.05	2.14	3.62	0.89
Switzerland	Hodgkin lymphoma	Incidence	0.12	0.24	0.93	1.58	2.36	0.86

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Switzerland	Hodgkin lymphoma	Deaths	0.03	0.03	0.26	0.29	0.23	-1
Syrian Arab Republic	Leukemia	Incidence	2.5	2.66	0.07	26.89	20.88	-1.28
Syrian Arab Republic	Leukemia	Deaths	1.5	1.85	0.23	21.41	15.82	-1.5
Syrian Arab Republic	Multiple myeloma	Incidence	0.04	0.1	1.65	0.72	0.8	0.24
Syrian Arab Republic	Multiple myeloma	Deaths	0.03	0.08	1.37	0.64	0.64	-0.17
Syrian Arab Republic	Non-Hodgkin lymphoma	Incidence	0.18	0.32	0.76	2.49	2.48	-0.81
Syrian Arab Republic	Non-Hodgkin lymphoma	Deaths	0.15	0.2	0.29	2.46	1.63	-2.46
Syrian Arab Republic	Hodgkin lymphoma	Incidence	0.01	0.03	1.19	0.17	0.23	1.36
Syrian Arab Republic	Hodgkin lymphoma	Deaths	0.01	0.01	0.29	0.13	0.1	-1.09
Taiwan (Province of China)	Leukemia	Incidence	1.39	2.67	0.92	7.61	9.26	0.8
Taiwan (Province of China)	Leukemia	Deaths	0.68	1.29	0.9	3.9	3.76	0.02
Taiwan (Province of China)	Multiple myeloma	Incidence	0.15	0.66	3.39	0.94	1.67	1.97
Taiwan (Province of China)	Multiple myeloma	Deaths	0.11	0.48	3.21	0.73	1.2	1.68
Taiwan (Province of China)	Non-Hodgkin lymphoma	Incidence	1.06	3.19	2	6.02	8.85	1.15
Taiwan (Province of China)	Non-Hodgkin lymphoma	Deaths	0.61	1.5	1.45	3.75	3.95	0.02
Taiwan (Province of China)	Hodgkin lymphoma	Incidence	0.09	0.3	2.5	0.43	0.97	3.2
Taiwan (Province of China)	Hodgkin lymphoma	Deaths	0.02	0.03	0.51	0.11	0.09	-0.59

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Tajikistan	Leukemia	Incidence	0.51	0.42	-0.18	8.62	5.27	-1.82
Tajikistan	Leukemia	Deaths	0.26	0.26	0.02	5.23	3.82	-1.16
Tajikistan	Multiple myeloma	Incidence	0.02	0.04	1.01	0.71	0.84	0.55
Tajikistan	Multiple myeloma	Deaths	0.02	0.04	0.95	0.66	0.8	0.65
Tajikistan	Non-Hodgkin lymphoma	Incidence	0.05	0.17	2.17	1.38	2.44	2.14
Tajikistan	Non-Hodgkin lymphoma	Deaths	0.04	0.12	1.95	1.2	2.04	2.13
Tajikistan	Hodgkin lymphoma	Incidence	0.01	0.02	1.11	0.3	0.31	-0.07
Tajikistan	Hodgkin lymphoma	Deaths	0.01	0.02	0.85	0.25	0.24	-0.3
Thailand	Leukemia	Incidence	4.27	6.08	0.42	8.65	8.04	-0.32
Thailand	Leukemia	Deaths	2.29	4.14	0.81	5.35	4.69	-0.55
Thailand	Multiple myeloma	Incidence	0.26	0.79	2.07	0.72	0.76	-0.08
Thailand	Multiple myeloma	Deaths	0.22	0.62	1.8	0.65	0.61	-0.53
Thailand	Non-Hodgkin lymphoma	Incidence	0.79	2.93	2.71	1.78	3.2	1.64
Thailand	Non-Hodgkin lymphoma	Deaths	0.67	1.81	1.68	1.67	1.88	-0.03
Thailand	Hodgkin lymphoma	Incidence	0.23	0.4	0.72	0.43	0.5	-0.08
Thailand	Hodgkin lymphoma	Deaths	0.13	0.12	-0.08	0.26	0.13	-2.91
Timor-Leste	Leukemia	Incidence	0.08	0.08	0.05	9.43	7.01	-1.08
Timor-Leste	Leukemia	Deaths	0.04	0.05	0.39	6.07	5.04	-0.73
Timor-Leste	Multiple myeloma	Incidence	0	0.01	2.28	0.68	0.75	0.4
Timor-Leste	Multiple myeloma	Deaths	0	0.01	2.25	0.65	0.7	0.25
Timor-Leste	Non-Hodgkin lymphoma	Incidence	0.01	0.02	2.34	1.6	2.31	1.51



Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Timor-Leste	Non-Hodgkin lymphoma	Deaths	0.01	0.02	1.87	1.76	2.36	1.26
Timor-Leste	Hodgkin lymphoma	Incidence	0	0	0.62	0.46	0.35	-1.03
Timor-Leste	Hodgkin lymphoma	Deaths	0	0	0.39	0.41	0.27	-1.64
Togo	Leukemia	Incidence	0.11	0.24	1.11	3.86	4.02	0.24
Togo	Leukemia	Deaths	0.07	0.16	1.3	3.12	3.23	0.18
Togo	Multiple myeloma	Incidence	0.01	0.03	2.24	0.78	0.85	0.28
Togo	Multiple myeloma	Deaths	0.01	0.03	2.15	0.74	0.79	0.22
Togo	Non-Hodgkin lymphoma	Incidence	0.05	0.14	1.7	2.48	2.58	-0.31
Togo	Non-Hodgkin lymphoma	Deaths	0.05	0.12	1.52	2.59	2.58	-0.48
Togo	Hodgkin lymphoma	Incidence	0.01	0.02	1.68	0.31	0.34	0.3
Togo	Hodgkin lymphoma	Deaths	0.01	0.02	1.62	0.27	0.29	0.18
Tokelau	Leukemia	Incidence	0	0	-0.34	6.75	5.34	-0.9
Tokelau	Leukemia	Deaths	0	0	-0.3	5.26	4.09	-0.98
Tokelau	Multiple myeloma	Incidence	0	0	-0.09	1.26	1.17	-0.35
Tokelau	Multiple myeloma	Deaths	0	0	-0.15	1.15	1.01	-0.56
Tokelau	Non-Hodgkin lymphoma	Incidence	0	0	0.36	1.98	2.86	1.33
Tokelau	Non-Hodgkin lymphoma	Deaths	0	0	0.06	2.04	2.31	0.47
Tokelau	Hodgkin lymphoma	Incidence	0	0	-0.16	0.39	0.35	-0.45
Tokelau	Hodgkin lymphoma	Deaths	0	0	-0.43	0.3	0.18	-1.74
Tonga	Leukemia	Incidence	0	0	0.16	4.04	3.97	-0.15
Tonga	Leukemia	Deaths	0	0	0.25	3.23	3.09	-0.26

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Tonga	Multiple myeloma	Incidence	0	0	0.51	1.52	1.63	0.03
Tonga	Multiple myeloma	Deaths	0	0	0.52	1.38	1.45	-0.05
Tonga	Non-Hodgkin lymphoma	Incidence	0	0	0.66	4.25	5.36	0.65
Tonga	Non-Hodgkin lymphoma	Deaths	0	0	0.57	4.37	4.93	0.33
Tonga	Hodgkin lymphoma	Incidence	0	0	0.28	0.3	0.3	0.09
Tonga	Hodgkin lymphoma	Deaths	0	0	0.11	0.22	0.19	-0.43
Trinidad and Tobago	Leukemia	Incidence	0.07	0.08	0.06	6.5	5.02	-0.91
Trinidad and Tobago	Leukemia	Deaths	0.05	0.06	0.12	4.97	3.61	-1.18
Trinidad and Tobago	Multiple myeloma	Incidence	0.02	0.06	1.92	2.61	3.36	0.99
Trinidad and Tobago	Multiple myeloma	Deaths	0.02	0.05	1.7	2.18	2.58	0.68
Trinidad and Tobago	Non-Hodgkin lymphoma	Incidence	0.05	0.08	0.47	5.19	4.81	-0.38
Trinidad and Tobago	Non-Hodgkin lymphoma	Deaths	0.04	0.06	0.31	4.5	3.25	-1.4
Trinidad and Tobago	Hodgkin lymphoma	Incidence	0	0.01	0.92	0.4	0.56	1.68
Trinidad and Tobago	Hodgkin lymphoma	Deaths	0	0	0.47	0.28	0.26	0.04
Tunisia	Leukemia	Incidence	0.39	0.52	0.33	5.09	4.38	-0.57
Tunisia	Leukemia	Deaths	0.23	0.35	0.5	3.66	2.93	-0.8
Tunisia	Multiple myeloma	Incidence	0.06	0.19	1.93	1.3	1.5	0.46
Tunisia	Multiple myeloma	Deaths	0.06	0.15	1.63	1.18	1.19	0.03
Tunisia	Non-Hodgkin lymphoma	Incidence	0.08	0.29	2.59	1.34	2.34	1.92
Tunisia	Non-Hodgkin lymphoma	Deaths	0.07	0.16	1.47	1.21	1.32	0.27
Tunisia	Hodgkin lymphoma	Incidence	0.07	0.17	1.53	0.93	1.42	1.46

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Tunisia	Hodgkin lymphoma	Deaths	0.04	0.05	0.23	0.59	0.38	-1.58
Turkey	Leukemia	Incidence	6.64	6.88	0.04	12.21	8.45	-1.34
Turkey	Leukemia	Deaths	4.07	4.4	0.08	8.69	5.28	-1.79
Turkey	Multiple myeloma	Incidence	0.68	1.77	1.6	1.89	2	0.37
Turkey	Multiple myeloma	Deaths	0.6	1.35	1.27	1.7	1.55	-0.2
Turkey	Non-Hodgkin lymphoma	Incidence	1.82	5.09	1.79	4.06	5.92	1.76
Turkey	Non-Hodgkin lymphoma	Deaths	1.59	2.8	0.76	3.92	3.24	-0.53
Turkey	Hodgkin lymphoma	Incidence	0.42	0.89	1.13	0.83	1.02	0.77
Turkey	Hodgkin lymphoma	Deaths	0.29	0.26	-0.1	0.64	0.3	-2.88
Turkmenistan	Leukemia	Incidence	0.36	0.24	-0.34	8.27	5	-1.9
Turkmenistan	Leukemia	Deaths	0.16	0.14	-0.09	4.42	3.22	-1.3
Turkmenistan	Multiple myeloma	Incidence	0.01	0.05	2.89	0.63	1.12	2.52
Turkmenistan	Multiple myeloma	Deaths	0.01	0.04	2.53	0.56	0.9	2.03
Turkmenistan	Non-Hodgkin lymphoma	Incidence	0.03	0.1	1.83	1.31	2.23	2.08
Turkmenistan	Non-Hodgkin lymphoma	Deaths	0.03	0.06	1.32	1.14	1.48	0.85
Turkmenistan	Hodgkin lymphoma	Incidence	0.02	0.08	2.74	0.64	1.49	4.04
Turkmenistan	Hodgkin lymphoma	Deaths	0.01	0.03	1.53	0.43	0.63	2.06
Tuvalu	Leukemia	Incidence	0	0	-0.16	9.07	6.3	-1.32
Tuvalu	Leukemia	Deaths	0	0	-0.01	6.56	4.91	-1.08
Tuvalu	Multiple myeloma	Incidence	0	0	0.29	1.42	1.24	-0.64
Tuvalu	Multiple myeloma	Deaths	0	0	0.25	1.31	1.12	-0.72

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Tuvalu	Non-Hodgkin lymphoma	Incidence	0	0	0.7	2.2	2.61	0.46
Tuvalu	Non-Hodgkin lymphoma	Deaths	0	0	0.5	2.31	2.44	0.11
Tuvalu	Hodgkin lymphoma	Incidence	0	0	0.16	0.5	0.41	-0.62
Tuvalu	Hodgkin lymphoma	Deaths	0	0	-0.06	0.4	0.27	-1.29
Uganda	Leukemia	Incidence	0.77	1.42	0.84	3.61	3.54	0.1
Uganda	Leukemia	Deaths	0.37	0.67	0.83	2.51	2.4	-0.17
Uganda	Multiple myeloma	Incidence	0.09	0.28	2.05	1.45	2.03	1.17
Uganda	Multiple myeloma	Deaths	0.09	0.25	1.91	1.43	1.95	1.07
Uganda	Non-Hodgkin lymphoma	Incidence	0.11	0.49	3.58	1.39	2.32	1.97
Uganda	Non-Hodgkin lymphoma	Deaths	0.12	0.45	2.74	1.61	2.53	1.79
Uganda	Hodgkin lymphoma	Incidence	0.1	0.3	2.07	0.82	0.96	0.34
Uganda	Hodgkin lymphoma	Deaths	0.08	0.21	1.69	0.71	0.75	0.02
Ukraine	Leukemia	Incidence	6.74	4.96	-0.26	12.24	8.6	-1.96
Ukraine	Leukemia	Deaths	4.45	2.95	-0.34	7.61	4.78	-2.48
Ukraine	Multiple myeloma	Incidence	0.7	1.05	0.5	0.96	1.43	1.64
Ukraine	Multiple myeloma	Deaths	0.52	0.73	0.4	0.72	0.98	1.24
Ukraine	Non-Hodgkin lymphoma	Incidence	1.52	3.14	1.06	2.6	5.47	3.07
Ukraine	Non-Hodgkin lymphoma	Deaths	0.92	1.66	0.8	1.46	2.6	2.27
Ukraine	Hodgkin lymphoma	Incidence	0.82	1.11	0.35	1.48	2.46	1.66
Ukraine	Hodgkin lymphoma	Deaths	0.44	0.44	-0.01	0.74	0.81	-0.31
United Arab Emirates	Leukemia	Incidence	0.07	0.43	4.98	9.75	7.69	-1

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
United Arab Emirates	Leukemia	Deaths	0.05	0.31	4.93	8.98	6.56	-1.28
United Arab Emirates	Multiple myeloma	Incidence	0.01	0.12	9.85	2.22	2.19	-0.2
United Arab Emirates	Multiple myeloma	Deaths	0.01	0.09	8.63	1.99	1.81	-0.45
United Arab Emirates	Non-Hodgkin lymphoma	Incidence	0.06	0.51	7.83	6.42	6.91	0.05
United Arab Emirates	Non-Hodgkin lymphoma	Deaths	0.04	0.31	6.09	6.27	4.81	-1.03
United Arab Emirates	Hodgkin lymphoma	Incidence	0.01	0.1	7.25	0.86	1.04	0.52
United Arab Emirates	Hodgkin lymphoma	Deaths	0.01	0.04	4.65	0.62	0.48	-0.93
United Kingdom	Leukemia	Incidence	8.19	12.65	0.54	11.1	12.55	0.2
United Kingdom	Leukemia	Deaths	4.7	5.86	0.25	5.6	4.67	-0.76
United Kingdom	Multiple myeloma	Incidence	3.85	6.6	0.71	4.22	5.17	0.6
United Kingdom	Multiple myeloma	Deaths	2.63	3.89	0.48	2.82	2.9	-0.04
United Kingdom	Non-Hodgkin lymphoma	Incidence	8.76	14.01	0.6	10.38	11.44	-0.07
United Kingdom	Non-Hodgkin lymphoma	Deaths	4.61	6.22	0.35	5.27	4.82	-0.73
United Kingdom	Hodgkin lymphoma	Incidence	1.91	2.66	0.39	2.92	3.22	0.5
United Kingdom	Hodgkin lymphoma	Deaths	0.48	0.38	-0.21	0.63	0.36	-1.85
United Republic of Tanzania	Leukemia	Incidence	1.94	3.49	0.79	5.7	5.69	0.48
United Republic of Tanzania	Leukemia	Deaths	0.86	1.65	0.91	3.54	3.65	0.45
United Republic of Tanzania	Multiple myeloma	Incidence	0.14	0.36	1.49	1.34	1.49	0.45
United Republic of Tanzania	Multiple myeloma	Deaths	0.14	0.33	1.43	1.32	1.43	0.36

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
United Republic of Tanzania	Non-Hodgkin lymphoma	Incidence	0.43	1.21	1.8	3.73	4.49	0.71
United Republic of Tanzania	Non-Hodgkin lymphoma	Deaths	0.51	1.32	1.61	4.49	5.3	0.66
United Republic of Tanzania	Hodgkin lymphoma	Incidence	0.16	0.35	1.24	0.79	0.77	0
United Republic of Tanzania	Hodgkin lymphoma	Deaths	0.12	0.24	1.06	0.67	0.61	-0.23
United States of America	Leukemia	Incidence	35.2	53.11	0.51	11.7	10.2	-0.7
United States of America	Leukemia	Deaths	21.45	31.38	0.46	6.86	5.74	-0.74
United States of America	Multiple myeloma	Incidence	13.81	27.05	0.96	4.3	4.8	0.12
United States of America	Multiple myeloma	Deaths	10.25	17.94	0.75	3.14	3.11	-0.31
United States of America	Non-Hodgkin lymphoma	Incidence	41.5	60.84	0.47	13.26	11.08	-1.3
United States of America	Non-Hodgkin lymphoma	Deaths	21.7	29.99	0.38	6.8	5.28	-1.49
United States of America	Hodgkin lymphoma	Incidence	9.56	9.88	0.03	3.42	2.56	-1.22
United States of America	Hodgkin lymphoma	Deaths	1.8	1.53	-0.15	0.61	0.32	-2.24
United States Virgin Islands	Leukemia	Incidence	0.01	0.01	0.53	6.63	6.32	-0.11
United States Virgin Islands	Leukemia	Deaths	0	0.01	0.59	4.9	4.37	-0.35

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
United States Virgin Islands	Multiple myeloma	Incidence	0	0.01	2.09	5.08	6.92	1.57
United States Virgin Islands	Multiple myeloma	Deaths	0	0.01	1.93	4.11	5.2	1.3
United States Virgin Islands	Non-Hodgkin lymphoma	Incidence	0.01	0.01	1.18	6.06	7.59	0.8
United States Virgin Islands	Non-Hodgkin lymphoma	Deaths	0	0.01	0.98	4.87	5.07	0.23
United States Virgin Islands	Hodgkin lymphoma	Incidence	0	0	0.77	0.3	0.39	1
United States Virgin Islands	Hodgkin lymphoma	Deaths	0	0	0.6	0.19	0.18	-0.02
Uruguay	Leukemia	Incidence	0.31	0.37	0.2	8.84	7.99	-0.54
Uruguay	Leukemia	Deaths	0.24	0.28	0.16	6.71	5.51	-0.88
Uruguay	Multiple myeloma	Incidence	0.11	0.2	0.81	2.78	3.69	0.97
Uruguay	Multiple myeloma	Deaths	0.09	0.16	0.75	2.38	2.94	0.7
Uruguay	Non-Hodgkin lymphoma	Incidence	0.25	0.45	0.82	6.85	9.3	0.87
Uruguay	Non-Hodgkin lymphoma	Deaths	0.19	0.29	0.49	5.22	5.6	0.05
Uruguay	Hodgkin lymphoma	Incidence	0.05	0.06	0.29	1.38	1.53	0.55
Uruguay	Hodgkin lymphoma	Deaths	0.03	0.02	-0.18	0.73	0.47	-1.32
Uzbekistan	Leukemia	Incidence	2.04	1.85	-0.1	9.17	6.3	-1.95
Uzbekistan	Leukemia	Deaths	0.99	1.1	0.11	5.34	4.24	-1.31
Uzbekistan	Multiple myeloma	Incidence	0.06	0.17	1.63	0.57	0.82	1.36
Uzbekistan	Multiple myeloma	Deaths	0.06	0.14	1.46	0.52	0.75	1.33

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Uzbekistan	Non-Hodgkin lymphoma	Incidence	0.23	0.96	3.09	1.43	3.49	3.79
Uzbekistan	Non-Hodgkin lymphoma	Deaths	0.16	0.56	2.47	1.14	2.3	3.07
Uzbekistan	Hodgkin lymphoma	Incidence	0.13	0.32	1.41	0.74	1	1.01
Uzbekistan	Hodgkin lymphoma	Deaths	0.08	0.14	0.82	0.49	0.5	0.02
Vanuatu	Leukemia	Incidence	0.01	0.02	1.27	6.13	6.47	-0.04
Vanuatu	Leukemia	Deaths	0	0.01	1.34	5.08	5.1	-0.22
Vanuatu	Multiple myeloma	Incidence	0	0	1.76	1.17	1.2	-0.13
Vanuatu	Multiple myeloma	Deaths	0	0	1.72	1.12	1.13	-0.17
Vanuatu	Non-Hodgkin lymphoma	Incidence	0	0	2.1	1.74	2.18	0.59
Vanuatu	Non-Hodgkin lymphoma	Deaths	0	0	2.01	1.87	2.26	0.51
Vanuatu	Hodgkin lymphoma	Incidence	0	0	1.27	0.43	0.42	-0.37
Vanuatu	Hodgkin lymphoma	Deaths	0	0	1.18	0.37	0.34	-0.5
Venezuela (Bolivarian Republic of)	Leukemia	Incidence	1.11	1.63	0.47	6.51	5.84	-0.42
Venezuela (Bolivarian Republic of)	Leukemia	Deaths	0.75	1.16	0.55	4.93	4.13	-0.73
Venezuela (Bolivarian Republic of)	Multiple myeloma	Incidence	0.14	0.59	3.22	1.45	2	1.01
Venezuela (Bolivarian Republic of)	Multiple myeloma	Deaths	0.12	0.46	2.85	1.26	1.58	0.66
Venezuela (Bolivarian Republic of)	Non-Hodgkin lymphoma	Incidence	0.54	1.35	1.51	3.97	4.66	0.36
Venezuela (Bolivarian Republic of)	Non-Hodgkin lymphoma	Deaths	0.43	0.87	1.02	3.64	3.02	-0.91



Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Venezuela (Bolivarian Republic of)	Hodgkin lymphoma	Incidence	0.14	0.37	1.73	0.95	1.28	1.08
Venezuela (Bolivarian Republic of)	Hodgkin lymphoma	Deaths	0.09	0.16	0.78	0.71	0.55	-1.01
Viet Nam	Leukemia	Incidence	2.69	4.52	0.68	4.86	4.95	0.25
Viet Nam	Leukemia	Deaths	2.02	3.39	0.68	4.07	3.81	-0.06
Viet Nam	Multiple myeloma	Incidence	0.26	0.83	2.16	0.66	0.9	1.33
Viet Nam	Multiple myeloma	Deaths	0.24	0.67	1.79	0.61	0.74	0.92
Viet Nam	Non-Hodgkin lymphoma	Incidence	0.9	2.84	2.14	1.92	3.05	1.71
Viet Nam	Non-Hodgkin lymphoma	Deaths	0.89	1.98	1.24	2.03	2.17	0.23
Viet Nam	Hodgkin lymphoma	Incidence	0.32	0.82	1.59	0.57	0.82	1.57
Viet Nam	Hodgkin lymphoma	Deaths	0.22	0.29	0.36	0.42	0.3	-0.92
Yemen	Leukemia	Incidence	1.09	1.89	0.73	8.57	8.32	0.15
Yemen	Leukemia	Deaths	0.56	1.2	1.16	6.45	6.57	0.22
Yemen	Multiple myeloma	Incidence	0.05	0.15	1.91	1.02	1.09	0.36
Yemen	Multiple myeloma	Deaths	0.05	0.13	1.79	0.96	1	0.19
Yemen	Non-Hodgkin lymphoma	Incidence	0.11	0.34	2.12	1.67	1.85	0.72
Yemen	Non-Hodgkin lymphoma	Deaths	0.11	0.29	1.64	1.79	1.83	0.38
Yemen	Hodgkin lymphoma	Incidence	0.06	0.17	1.99	0.74	0.76	0.13
Yemen	Hodgkin lymphoma	Deaths	0.05	0.11	1.46	0.67	0.59	-0.54
Zambia	Leukemia	Incidence	0.64	0.82	0.28	6.31	5.08	-0.58
Zambia	Leukemia	Deaths	0.3	0.44	0.48	4.11	3.63	-0.39

Countries	Causes	Measure	Cases in 1990 No.×10 <sup>3</sup>	Cases in 2019 No.×10 <sup>3</sup>	Change in absolute number (100%)	ASR in 1990 per 100000	ASR in 2019 per 100000	EAPC from 1990 and 2019
Zambia	Multiple myeloma	Incidence	0.04	0.1	1.56	1.41	1.52	0.12
Zambia	Multiple myeloma	Deaths	0.04	0.09	1.42	1.4	1.44	-0.04
Zambia	Non-Hodgkin lymphoma	Incidence	0.13	0.37	1.85	4.17	4.78	0.38
Zambia	Non-Hodgkin lymphoma	Deaths	0.16	0.37	1.34	5.07	5.53	0.25
Zambia	Hodgkin lymphoma	Incidence	0.05	0.12	1.46	0.87	0.84	-0.18
Zambia	Hodgkin lymphoma	Deaths	0.04	0.08	1.16	0.75	0.65	-0.56
Zimbabwe	Leukemia	Incidence	0.28	0.38	0.38	3.89	3.58	-0.05
Zimbabwe	Leukemia	Deaths	0.18	0.27	0.52	3.07	2.88	0.09
Zimbabwe	Multiple myeloma	Incidence	0.11	0.27	1.38	2.92	3.93	1.29
Zimbabwe	Multiple myeloma	Deaths	0.1	0.24	1.36	2.73	3.67	1.45
Zimbabwe	Non-Hodgkin lymphoma	Incidence	0.11	0.11	0.05	1.96	1.31	-2
Zimbabwe	Non-Hodgkin lymphoma	Deaths	0.1	0.11	0.1	2.04	1.41	-1.71
Zimbabwe	Hodgkin lymphoma	Incidence	0.03	0.05	0.96	0.37	0.44	0.72
Zimbabwe	Hodgkin lymphoma	Deaths	0.02	0.04	1.03	0.3	0.36	1

Abbreviations: ASR, age-standardised rate; EAPC, estimated annual percentage change.

**Supplementary Table S8.** The percent change in death cases attributable to high body-mass index between 1990 and 2019 at national level.

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Afghanistan	Leukemia	Female	3.9 (1.2-8.1)	8.5 (4.1-13.9)
Afghanistan	Leukemia	Male	1.7 (0.5-3.7)	9.4 (4.8-14.9)
Afghanistan	Multiple myeloma	Female	4.9 (1.4-10.2)	8 (3.8-13.1)
Afghanistan	Multiple myeloma	Male	2.7 (0.6-6.6)	2.3 (0.9-4.4)
Afghanistan	Non-Hodgkin lymphoma	Female	3.4 (0.6-7.6)	7.9 (3.7-13.2)
Afghanistan	Non-Hodgkin lymphoma	Male	2.3 (0.6-5.3)	9.7 (5-15.2)
Albania	Leukemia	Female	5.5 (2-11)	8.4 (3.9-14.3)
Albania	Leukemia	Male	3.4 (1.4-6.4)	7.8 (3.9-12.6)
Albania	Multiple myeloma	Female	7.2 (2.1-14)	11.5 (6.3-17.6)
Albania	Multiple myeloma	Male	5.4 (1.6-11.8)	2.2 (0.9-4.3)
Albania	Non-Hodgkin lymphoma	Female	4.1 (0.7-9)	10.4 (5.2-17)
Albania	Non-Hodgkin lymphoma	Male	4.5 (1.5-9.1)	8 (3.7-13.5)
Algeria	Leukemia	Female	6.1 (2.3-11.8)	3.9 (1.8-6.8)
Algeria	Leukemia	Male	2.7 (1-5.2)	10.8 (5.6-17.1)
Algeria	Multiple myeloma	Female	7.8 (2.5-14.9)	7.5 (3.6-12.7)
Algeria	Multiple myeloma	Male	4.7 (1.2-10.4)	9.8 (5-16)
Algeria	Non-Hodgkin lymphoma	Female	4.4 (0.8-9.1)	8.5 (4.2-13.7)
Algeria	Non-Hodgkin lymphoma	Male	3.4 (1.1-7.1)	4.3 (1.7-8.1)
American Samoa	Leukemia	Female	11.7 (4.9-19.3)	2.7 (1-5.5)
American Samoa	Leukemia	Male	7.9 (4.1-12.4)	1.2 (0.4-2.6)
American Samoa	Multiple myeloma	Female	12.5 (4.5-22.3)	2.5 (0.9-4.9)
American Samoa	Multiple myeloma	Male	10.4 (3.2-19.4)	5.8 (2.8-9.7)
American Samoa	Non-Hodgkin lymphoma	Female	7.9 (1.4-15.1)	1.4 (0.4-3)
American Samoa	Non-Hodgkin lymphoma	Male	9.9 (3.9-17.1)	1.6 (0.6-3.2)
Andorra	Leukemia	Female	9.8 (3.7-17.9)	4.2 (1.5-8.1)
Andorra	Leukemia	Male	6.1 (2.5-10.6)	7.1 (3.3-11.8)
Andorra	Multiple myeloma	Female	7.8 (2.5-15.1)	5.4 (2.7-8.8)
Andorra	Multiple myeloma	Male	6.8 (1.9-14.1)	11.8 (6.3-18.4)
Andorra	Non-Hodgkin lymphoma	Female	5.6 (1-11.8)	11.1 (5.7-17.9)
Andorra	Non-Hodgkin lymphoma	Male	6.7 (2.3-13.2)	9 (4.4-14.7)
Angola	Leukemia	Female	0.8 (0.1-2.8)	11.9 (6.2-18.9)
Angola	Leukemia	Male	0.5 (0.1-1.7)	4 (1.9-7.1)
Angola	Multiple myeloma	Female	1.5 (0.2-4.2)	2.1 (0.9-4.2)
Angola	Multiple myeloma	Male	1.2 (0.2-3.8)	7.4 (3.6-12.8)
Angola	Non-Hodgkin lymphoma	Female	0.8 (0.1-2.6)	9.5 (4.6-15.3)
Angola	Non-Hodgkin lymphoma	Male	0.9 (0.1-2.7)	6.6 (3.1-11.3)
Antigua and Barbuda	Leukemia	Female	5.8 (2-11.7)	10.7 (5.6-16.6)
Antigua and Barbuda	Leukemia	Male	3.1 (1.1-6.1)	8.1 (3.8-13.4)
Antigua and Barbuda	Multiple myeloma	Female	5.1 (1.4-10.9)	1.8 (0.7-3.5)
Antigua and Barbuda	Multiple myeloma	Male	3.7 (0.9-8.6)	12 (6.2-19.1)
Antigua and Barbuda	Non-Hodgkin lymphoma	Female	3.6 (0.6-8.1)	1.7 (0.7-3.5)
Antigua and Barbuda	Non-Hodgkin lymphoma	Male	3.7 (1.1-8)	8.3 (4.4-13)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Argentina	Leukemia	Female	6.2 (2-12.4)	7.8 (3.8-13.1)
Argentina	Leukemia	Male	3.5 (1.3-6.7)	7.2 (3.6-11.5)
Argentina	Multiple myeloma	Female	5.8 (1.7-11.8)	8.9 (4.4-14.6)
Argentina	Multiple myeloma	Male	4.6 (1.2-10.2)	9.1 (4.4-15.2)
Argentina	Non-Hodgkin lymphoma	Female	4 (0.7-9.1)	8.5 (3.8-14.4)
Argentina	Non-Hodgkin lymphoma	Male	4.3 (1.4-9.2)	9.5 (4.8-15.3)
Armenia	Leukemia	Female	6.9 (2.6-13)	10 (5.1-15.9)
Armenia	Leukemia	Male	3 (1.2-5.6)	4.7 (2.1-8.5)
Armenia	Multiple myeloma	Female	7.4 (2.3-14.2)	3 (1.2-5.7)
Armenia	Multiple myeloma	Male	4.6 (1.3-10.2)	7.2 (3.5-12.3)
Armenia	Non-Hodgkin lymphoma	Female	4.9 (0.8-10.3)	6.6 (2.8-11.4)
Armenia	Non-Hodgkin lymphoma	Male	4 (1.3-8.3)	11.6 (6.1-18.3)
Australia	Leukemia	Female	9.6 (3.6-17.5)	3.6 (1.7-6.4)
Australia	Leukemia	Male	5.8 (2.6-10)	4.4 (2-7.7)
Australia	Multiple myeloma	Female	7.5 (2.3-14.4)	9.2 (4.8-14.5)
Australia	Multiple myeloma	Male	6.5 (1.8-13.5)	8.7 (4.1-14.5)
Australia	Non-Hodgkin lymphoma	Female	5.5 (1-11.5)	7.7 (3.6-13.1)
Australia	Non-Hodgkin lymphoma	Male	6.6 (2.4-12.8)	9.7 (4.8-15.6)
Austria	Leukemia	Female	8.5 (3-16.1)	11.8 (6.5-18)
Austria	Leukemia	Male	4.9 (2-8.9)	10 (5.1-15.7)
Austria	Multiple myeloma	Female	6.4 (1.9-12.7)	6.7 (3-11.3)
Austria	Multiple myeloma	Male	5.4 (1.5-11.8)	12.6 (7.2-18.8)
Austria	Non-Hodgkin lymphoma	Female	4.7 (0.8-10)	3.2 (1.4-5.9)
Austria	Non-Hodgkin lymphoma	Male	5.3 (1.8-10.8)	11.9 (6-19.2)
Azerbaijan	Leukemia	Female	5.2 (2-10.1)	7.1 (3.4-11.9)
Azerbaijan	Leukemia	Male	2.3 (0.9-4.5)	5.4 (2.7-8.8)
Azerbaijan	Multiple myeloma	Female	7.6 (2.4-14.9)	11.5 (5.8-18.5)
Azerbaijan	Multiple myeloma	Male	5.2 (1.4-11.2)	7.9 (3.8-13.2)
Azerbaijan	Non-Hodgkin lymphoma	Female	5 (0.9-10.3)	2.7 (1.1-4.9)
Azerbaijan	Non-Hodgkin lymphoma	Male	4.2 (1.4-8.7)	6.4 (3.2-10.5)
Bahamas	Leukemia	Female	9.2 (3.6-16.5)	2.7 (1.1-5.1)
Bahamas	Leukemia	Male	4.7 (2.1-8.1)	7.3 (3.3-12.6)
Bahamas	Multiple myeloma	Female	8.4 (2.8-15.9)	6.9 (3.5-11.4)
Bahamas	Multiple myeloma	Male	6.3 (1.7-13.1)	7 (3.4-11.7)
Bahamas	Non-Hodgkin lymphoma	Female	5.8 (1.1-11.8)	8.9 (4.5-14.6)
Bahamas	Non-Hodgkin lymphoma	Male	5.9 (2.1-11.5)	10.2 (4.8-16.9)
Bahrain	Leukemia	Female	10.6 (4.3-18.4)	11.7 (6.2-18.2)
Bahrain	Leukemia	Male	6 (2.8-9.9)	9 (4.4-14.6)
Bahrain	Multiple myeloma	Female	11.1 (3.9-20.4)	3.3 (1.3-6.2)
Bahrain	Multiple myeloma	Male	8 (2.3-16)	6.4 (3.3-10.4)
Bahrain	Non-Hodgkin lymphoma	Female	7.3 (1.3-14.5)	3.5 (1.4-6.9)
Bahrain	Non-Hodgkin lymphoma	Male	7.1 (2.6-13.2)	7.7 (3.5-13.2)
Bangladesh	Leukemia	Female	0.5 (0.1-1.7)	6.1 (2.8-10.4)
Bangladesh	Leukemia	Male	0.4 (0.1-1.1)	1.8 (0.6-3.6)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Bangladesh	Multiple myeloma	Female	0.8 (0.1-2.5)	9.6 (4.9-15.3)
Bangladesh	Multiple myeloma	Male	0.7 (0.1-2.3)	10.4 (5.5-16.5)
Bangladesh	Non-Hodgkin lymphoma	Female	0.5 (0-1.5)	6.9 (3.2-11.9)
Bangladesh	Non-Hodgkin lymphoma	Male	0.5 (0.1-1.7)	10.4 (5.7-15.8)
Barbados	Leukemia	Female	10 (3.8-18.3)	11.1 (5.8-17.3)
Barbados	Leukemia	Male	4.8 (2-8.5)	7.4 (3.6-12.1)
Barbados	Multiple myeloma	Female	8.4 (2.6-16.7)	2.8 (1-5.6)
Barbados	Multiple myeloma	Male	5.7 (1.6-12.1)	7.3 (3.5-12.1)
Barbados	Non-Hodgkin lymphoma	Female	6.1 (1.1-12.8)	3.6 (1.6-6.5)
Barbados	Non-Hodgkin lymphoma	Male	5.6 (2-11.2)	11.6 (6-18.4)
Belarus	Leukemia	Female	9.2 (3.6-16.9)	11.6 (6.1-18.1)
Belarus	Leukemia	Male	3.9 (1.7-7.1)	13.5 (7.9-19.5)
Belarus	Multiple myeloma	Female	8.6 (2.9-16.4)	10.1 (4.9-16.1)
Belarus	Multiple myeloma	Male	5.5 (1.5-11.6)	10.7 (5.9-16.6)
Belarus	Non-Hodgkin lymphoma	Female	5.8 (1-12.1)	2.5 (0.9-4.9)
Belarus	Non-Hodgkin lymphoma	Male	4.7 (1.6-9.4)	9.2 (4.5-14.7)
Belgium	Leukemia	Female	8.1 (2.9-15.3)	8.3 (4-13.8)
Belgium	Leukemia	Male	4.5 (1.9-8.2)	9.3 (4.6-15)
Belgium	Multiple myeloma	Female	6.1 (1.8-12)	6.5 (3.1-10.7)
Belgium	Multiple myeloma	Male	4.9 (1.4-10.6)	13.4 (7.6-20)
Belgium	Non-Hodgkin lymphoma	Female	4.5 (0.8-9.7)	11.2 (5.9-17.7)
Belgium	Non-Hodgkin lymphoma	Male	5 (1.7-10)	6.7 (3.2-11.3)
Belize	Leukemia	Female	4.7 (1.7-9.2)	5.4 (2.5-9.6)
Belize	Leukemia	Male	2.2 (0.7-4.3)	11.4 (6-17.8)
Belize	Multiple myeloma	Female	7 (2.1-13.9)	5.7 (2.4-10.2)
Belize	Multiple myeloma	Male	4.1 (0.9-9.9)	0.7 (0.1-1.7)
Belize	Non-Hodgkin lymphoma	Female	4 (0.7-8.7)	2.2 (0.9-4.1)
Belize	Non-Hodgkin lymphoma	Male	3.2 (0.9-7)	9.1 (4.4-15.1)
Benin	Leukemia	Female	3.2 (1-6.9)	5.9 (2.9-9.7)
Benin	Leukemia	Male	1 (0.3-2.4)	8 (3.8-13.1)
Benin	Multiple myeloma	Female	4.2 (1.1-8.9)	7.5 (3.5-12.6)
Benin	Multiple myeloma	Male	2.3 (0.5-5.8)	9.7 (4.8-15.8)
Benin	Non-Hodgkin lymphoma	Female	2.4 (0.4-5.5)	3.2 (1.3-6)
Benin	Non-Hodgkin lymphoma	Male	1.5 (0.4-3.8)	5.8 (2.6-10.3)
Bermuda	Leukemia	Female	12 (4.8-21.3)	4 (1.7-7.1)
Bermuda	Leukemia	Male	6.9 (3.2-11.6)	8.6 (4.1-14.4)
Bermuda	Multiple myeloma	Female	9.6 (3.2-18.3)	10 (5.1-15.8)
Bermuda	Multiple myeloma	Male	7.8 (2.2-15.8)	9.8 (4.8-15.9)
Bermuda	Non-Hodgkin lymphoma	Female	7 (1.2-14.3)	7.8 (4-12.6)
Bermuda	Non-Hodgkin lymphoma	Male	7.8 (2.9-15)	7.2 (3.2-12.3)
Bhutan	Leukemia	Female	2 (0.4-5.4)	10.5 (5.3-16.9)
Bhutan	Leukemia	Male	0.9 (0.2-2.5)	15.1 (9.1-21.9)
Bhutan	Multiple myeloma	Female	2.8 (0.6-6.9)	2.4 (1.1-4.3)
Bhutan	Multiple myeloma	Male	1.7 (0.3-4.9)	11.2 (5.8-17.3)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
<b>Bhutan</b>	<b>Non-Hodgkin lymphoma</b>	Female	1.8 (0.2-4.5)	8.3 (3.8-14.2)
<b>Bhutan</b>	<b>Non-Hodgkin lymphoma</b>	Male	1.3 (0.2-3.7)	7.1 (3.5-11.5)
<b>Bolivia (Plurinational State of)</b>	<b>Leukemia</b>	Female	4.1 (1.4-8.1)	7.2 (3.4-12.2)
<b>Bolivia (Plurinational State of)</b>	<b>Leukemia</b>	Male	1.9 (0.7-3.8)	2.7 (1-5.2)
<b>Bolivia (Plurinational State of)</b>	<b>Multiple myeloma</b>	Female	6 (1.8-11.7)	2.9 (1.2-5.4)
<b>Bolivia (Plurinational State of)</b>	<b>Multiple myeloma</b>	Male	4.3 (1.1-9.7)	4.7 (2.1-8.2)
<b>Bolivia (Plurinational State of)</b>	<b>Non-Hodgkin lymphoma</b>	Female	3.7 (0.6-8.1)	10.8 (4.3-19.7)
<b>Bolivia (Plurinational State of)</b>	<b>Non-Hodgkin lymphoma</b>	Male	3.4 (1.1-7.5)	12.8 (5.2-22.2)
<b>Bosnia and Herzegovina</b>	<b>Leukemia</b>	Female	8.5 (3.2-15.9)	11.4 (4.5-20.6)
<b>Bosnia and Herzegovina</b>	<b>Leukemia</b>	Male	4.1 (1.6-7.5)	3.2 (1.1-6.5)
<b>Bosnia and Herzegovina</b>	<b>Multiple myeloma</b>	Female	7.4 (2.4-14.2)	10.3 (4-18.9)
<b>Bosnia and Herzegovina</b>	<b>Multiple myeloma</b>	Male	5.2 (1.4-11.2)	13.1 (5.3-23)
<b>Bosnia and Herzegovina</b>	<b>Non-Hodgkin lymphoma</b>	Female	4.9 (0.8-10.5)	10.8 (4.2-19.7)
<b>Bosnia and Herzegovina</b>	<b>Non-Hodgkin lymphoma</b>	Male	4.6 (1.6-9.4)	10.9 (4.5-19.1)
<b>Botswana</b>	<b>Leukemia</b>	Female	5.8 (2.1-11.3)	15.9 (6.6-26.5)
<b>Botswana</b>	<b>Leukemia</b>	Male	1.4 (0.4-3.1)	2.9 (0.9-6)
<b>Botswana</b>	<b>Multiple myeloma</b>	Female	5.9 (1.9-11.7)	13.6 (5.7-23.6)
<b>Botswana</b>	<b>Multiple myeloma</b>	Male	2 (0.4-5.2)	10.3 (4-18.9)
<b>Botswana</b>	<b>Non-Hodgkin lymphoma</b>	Female	3.7 (0.6-8.2)	6.2 (2.5-11.3)
<b>Botswana</b>	<b>Non-Hodgkin lymphoma</b>	Male	1.7 (0.4-4.3)	14.5 (5.9-24.9)
<b>Brazil</b>	<b>Leukemia</b>	Female	5.1 (1.8-9.9)	10 (4-17.8)
<b>Brazil</b>	<b>Leukemia</b>	Male	2.9 (1.1-5.4)	12.7 (5.2-22.1)
<b>Brazil</b>	<b>Multiple myeloma</b>	Female	6.4 (1.9-12.6)	10.9 (4.4-19.1)
<b>Brazil</b>	<b>Multiple myeloma</b>	Male	4.9 (1.3-10.8)	5.1 (1.7-10.4)
<b>Brazil</b>	<b>Non-Hodgkin lymphoma</b>	Female	3.9 (0.7-8.5)	4.8 (1.7-9.7)
<b>Brazil</b>	<b>Non-Hodgkin lymphoma</b>	Male	4 (1.3-8.4)	1.7 (0.5-4)
<b>Brunei Darussalam</b>	<b>Leukemia</b>	Female	2.5 (0.5-6.1)	3.4 (1-7.2)
<b>Brunei Darussalam</b>	<b>Leukemia</b>	Male	1.4 (0.3-3.3)	8.6 (3.4-15.4)
<b>Brunei Darussalam</b>	<b>Multiple myeloma</b>	Female	2.8 (0.6-6.9)	2.1 (0.6-4.9)
<b>Brunei Darussalam</b>	<b>Multiple myeloma</b>	Male	2.2 (0.4-6.2)	2.7 (0.9-5.4)
<b>Brunei Darussalam</b>	<b>Non-Hodgkin lymphoma</b>	Female	1.8 (0.3-4.7)	5.4 (1.6-11.5)
<b>Brunei Darussalam</b>	<b>Non-Hodgkin lymphoma</b>	Male	1.9 (0.4-5)	9.4 (3.7-17.2)
<b>Bulgaria</b>	<b>Leukemia</b>	Female	11.5 (4.6-20.4)	7.8 (3.2-13.5)
<b>Bulgaria</b>	<b>Leukemia</b>	Male	6.8 (3.2-11.1)	14.6 (6-25)
<b>Bulgaria</b>	<b>Multiple myeloma</b>	Female	9.9 (3.3-18.6)	13.7 (5.5-23.8)
<b>Bulgaria</b>	<b>Multiple myeloma</b>	Male	8.4 (2.3-16.5)	12.4 (4.9-21.8)
<b>Bulgaria</b>	<b>Non-Hodgkin lymphoma</b>	Female	6.8 (1.2-13.8)	14.8 (5.9-25.7)
<b>Bulgaria</b>	<b>Non-Hodgkin lymphoma</b>	Male	7.7 (2.8-14.6)	6.1 (2.3-11.3)
<b>Burkina Faso</b>	<b>Leukemia</b>	Female	2 (0.4-5.1)	2.8 (0.9-5.7)
<b>Burkina Faso</b>	<b>Leukemia</b>	Male	0.6 (0.1-1.7)	9.7 (3.7-17.6)
<b>Burkina Faso</b>	<b>Multiple myeloma</b>	Female	2.5 (0.5-5.9)	12.3 (4.9-21.5)
<b>Burkina Faso</b>	<b>Multiple myeloma</b>	Male	1.3 (0.2-3.9)	8.9 (3.5-16)
<b>Burkina Faso</b>	<b>Non-Hodgkin lymphoma</b>	Female	1.4 (0.2-3.7)	15.3 (6.5-25.7)
<b>Burkina Faso</b>	<b>Non-Hodgkin lymphoma</b>	Male	0.9 (0.2-2.7)	10.9 (4.3-19.5)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Burundi	Leukemia	Female	1 (0.2-2.4)	2.9 (1-6)
Burundi	Leukemia	Male	0.5 (0.1-1.1)	15.2 (6.2-25.8)
Burundi	Multiple myeloma	Female	2 (0.4-4.7)	2.4 (0.8-5.1)
Burundi	Multiple myeloma	Male	1.2 (0.2-3.5)	10.8 (4.4-18.6)
Burundi	Non-Hodgkin lymphoma	Female	1.2 (0.2-3.1)	10.1 (3.9-18.1)
Burundi	Non-Hodgkin lymphoma	Male	0.9 (0.2-2.5)	10.9 (4.4-19)
Cabo Verde	Leukemia	Female	3.5 (1.1-7.4)	11.6 (4.8-20.2)
Cabo Verde	Leukemia	Male	1.3 (0.3-2.8)	11.6 (4.6-20.8)
Cabo Verde	Multiple myeloma	Female	4.2 (1.1-8.9)	11.1 (4.3-20.8)
Cabo Verde	Multiple myeloma	Male	2.3 (0.5-5.7)	12.8 (5-22.5)
Cabo Verde	Non-Hodgkin lymphoma	Female	2.6 (0.4-6.2)	12 (4.8-21)
Cabo Verde	Non-Hodgkin lymphoma	Male	1.9 (0.4-4.4)	6.4 (2.4-12.3)
Cambodia	Leukemia	Female	1 (0.2-2.8)	4.9 (1.8-9.7)
Cambodia	Leukemia	Male	0.4 (0.1-1.2)	10 (3.9-18)
Cambodia	Multiple myeloma	Female	1.4 (0.3-3.8)	8.5 (3.2-15.8)
Cambodia	Multiple myeloma	Male	0.8 (0.1-2.8)	14.2 (5.8-24.6)
Cambodia	Non-Hodgkin lymphoma	Female	0.8 (0.1-2.4)	4.8 (1.9-9.1)
Cambodia	Non-Hodgkin lymphoma	Male	0.6 (0.1-2)	6.3 (2.4-11.8)
Cameroon	Leukemia	Female	7.5 (2.9-13.9)	11.6 (4.6-20.3)
Cameroon	Leukemia	Male	2.4 (0.9-4.8)	11.1 (4.3-20.1)
Cameroon	Multiple myeloma	Female	8 (2.6-15.5)	10 (3.8-18.3)
Cameroon	Multiple myeloma	Male	4.3 (1.1-9.8)	13.1 (5.3-22.7)
Cameroon	Non-Hodgkin lymphoma	Female	4.7 (0.8-9.8)	15.1 (6.3-25.1)
Cameroon	Non-Hodgkin lymphoma	Male	2.9 (0.8-6.7)	13.6 (5.5-23)
Canada	Leukemia	Female	9.5 (3.6-17.4)	8.6 (3.2-15.6)
Canada	Leukemia	Male	5.5 (2.3-9.8)	17.1 (7.4-27.6)
Canada	Multiple myeloma	Female	7.3 (2.4-14.1)	4.4 (1.5-8.4)
Canada	Multiple myeloma	Male	6.1 (1.7-12.8)	15.2 (6.2-25.9)
Canada	Non-Hodgkin lymphoma	Female	5.4 (0.9-11)	12 (4.8-20.6)
Canada	Non-Hodgkin lymphoma	Male	6.2 (2.2-12.1)	7.8 (3.1-13.9)
Central African Republic	Leukemia	Female	1.3 (0.3-3.5)	14.5 (5.8-25)
Central African Republic	Leukemia	Male	0.6 (0.1-1.7)	10.2 (4-18.7)
Central African Republic	Multiple myeloma	Female	2.1 (0.5-4.9)	4 (1.3-7.8)
Central African Republic	Multiple myeloma	Male	1.3 (0.2-3.7)	8.4 (3.4-15.3)
Central African Republic	Non-Hodgkin lymphoma	Female	1.2 (0.2-3.2)	4.7 (1.6-9.3)
Central African Republic	Non-Hodgkin lymphoma	Male	1 (0.2-2.7)	10 (3.7-18.6)
Chad	Leukemia	Female	1.6 (0.4-3.8)	9.7 (4-17.1)
Chad	Leukemia	Male	0.5 (0.1-1.3)	9.4 (3.7-17)
Chad	Multiple myeloma	Female	1.9 (0.4-4.5)	11.8 (4.8-20.6)
Chad	Multiple myeloma	Male	1 (0.1-3)	12.9 (5-23.2)
Chad	Non-Hodgkin lymphoma	Female	1.1 (0.2-2.8)	14.4 (5.8-24.7)
Chad	Non-Hodgkin lymphoma	Male	0.7 (0.1-2)	12.7 (5.1-21.7)
Chile	Leukemia	Female	7.5 (2.8-14.3)	4.7 (1.7-9.2)
Chile	Leukemia	Male	4.1 (1.6-7.4)	9.6 (3.9-16.8)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Chile	Multiple myeloma	Female	7.5 (2.3-14.5)	4.7 (1.5-9.6)
Chile	Multiple myeloma	Male	6.2 (1.6-13.1)	10.1 (3.9-19.1)
Chile	Non-Hodgkin lymphoma	Female	5.2 (0.9-11)	8.5 (3.2-15.4)
Chile	Non-Hodgkin lymphoma	Male	5.6 (1.9-11.4)	3.1 (1-6.6)
China	Leukemia	Female	1.6 (0.3-4.4)	11.9 (4.8-21.1)
China	Leukemia	Male	0.9 (0.2-2.3)	13.3 (5.4-23)
China	Multiple myeloma	Female	2.1 (0.4-5.5)	9 (3.4-16.9)
China	Multiple myeloma	Male	1.7 (0.2-4.8)	13.8 (5.7-23.1)
China	Non-Hodgkin lymphoma	Female	1.3 (0.2-3.6)	13.9 (5.6-24.1)
China	Non-Hodgkin lymphoma	Male	1.4 (0.2-3.9)	10.2 (4-18.2)
Colombia	Leukemia	Female	4.6 (1.6-9.1)	3.6 (1.1-7.6)
Colombia	Leukemia	Male	2.3 (0.8-4.4)	9.2 (3.5-16.7)
Colombia	Multiple myeloma	Female	5.9 (1.8-12.2)	4.7 (1.8-9.1)
Colombia	Multiple myeloma	Male	4.2 (1.1-9.7)	14.6 (5.8-25.2)
Colombia	Non-Hodgkin lymphoma	Female	3.7 (0.6-8.1)	14.8 (6.1-25.4)
Colombia	Non-Hodgkin lymphoma	Male	3.5 (1.1-7.3)	17.6 (7.6-28.2)
Comoros	Leukemia	Female	2 (0.5-4.4)	13.5 (5.5-23.3)
Comoros	Leukemia	Male	1 (0.3-2.1)	13.5 (5.6-23.4)
Comoros	Multiple myeloma	Female	3.4 (0.9-7.6)	4 (1.3-8.3)
Comoros	Multiple myeloma	Male	2.1 (0.4-5.4)	12.1 (4.9-21.1)
Comoros	Non-Hodgkin lymphoma	Female	2.2 (0.3-5.3)	11.1 (4.4-19.4)
Comoros	Non-Hodgkin lymphoma	Male	1.8 (0.4-4.2)	11.4 (4.5-20.4)
Congo	Leukemia	Female	3.5 (1.1-7.4)	8.9 (3.5-16.2)
Congo	Leukemia	Male	1.6 (0.5-3.6)	17.9 (7.7-29.2)
Congo	Multiple myeloma	Female	4.6 (1.3-9.5)	14 (5.6-24.1)
Congo	Multiple myeloma	Male	3.1 (0.7-7.4)	9.1 (3.5-16.5)
Congo	Non-Hodgkin lymphoma	Female	2.8 (0.5-6.3)	6.9 (2.5-13.3)
Congo	Non-Hodgkin lymphoma	Male	2.4 (0.6-5.7)	14.3 (5.9-24.2)
Cook Islands	Leukemia	Female	11 (4.3-19.5)	7.4 (2.7-14.2)
Cook Islands	Leukemia	Male	6.6 (3-10.7)	1.1 (0.2-2.7)
Cook Islands	Multiple myeloma	Female	9.5 (3.2-17.8)	3 (1-6)
Cook Islands	Multiple myeloma	Male	8 (2.2-15.9)	11.9 (4.6-21.4)
Cook Islands	Non-Hodgkin lymphoma	Female	6.4 (1.2-12.8)	7.9 (3.1-14.3)
Cook Islands	Non-Hodgkin lymphoma	Male	7.7 (2.8-14.4)	10.6 (4.2-18.7)
Costa Rica	Leukemia	Female	6.4 (2.3-12.3)	9.6 (3.7-17.7)
Costa Rica	Leukemia	Male	3.6 (1.5-6.5)	13.4 (5.4-23.3)
Costa Rica	Multiple myeloma	Female	6.7 (2-13.3)	4.9 (1.7-9.6)
Costa Rica	Multiple myeloma	Male	5.4 (1.5-11.8)	7.7 (2.9-14.7)
Costa Rica	Non-Hodgkin lymphoma	Female	4.7 (0.8-10)	6.5 (2.4-11.9)
Costa Rica	Non-Hodgkin lymphoma	Male	5 (1.7-10)	10.5 (4.1-19.2)
Croatia	Leukemia	Female	10.8 (4.1-19.8)	13.4 (5.7-22.8)
Croatia	Leukemia	Male	6.4 (2.9-10.8)	12.9 (5.2-22.4)
Croatia	Multiple myeloma	Female	8.6 (2.8-16.5)	10.4 (4.2-18.2)
Croatia	Multiple myeloma	Male	7.2 (2-14.6)	9.1 (3.4-17)



Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Croatia	Non-Hodgkin lymphoma	Female	6 (1.1-12.5)	14.4 (5.9-24.6)
Croatia	Non-Hodgkin lymphoma	Male	7.1 (2.5-13.5)	20.2 (8.8-32.5)
Cuba	Leukemia	Female	8 (3.1-14.7)	3.5 (1.3-6.6)
Cuba	Leukemia	Male	3.6 (1.5-6.3)	14.4 (5.9-24.4)
Cuba	Multiple myeloma	Female	7 (2.2-13.5)	11 (4.4-19.6)
Cuba	Multiple myeloma	Male	4.4 (1.2-9.5)	9.7 (3.9-17.1)
Cuba	Non-Hodgkin lymphoma	Female	4.9 (0.9-10.2)	9.4 (3.6-17.2)
Cuba	Non-Hodgkin lymphoma	Male	4.3 (1.5-8.5)	3.6 (1.1-7.6)
Cyprus	Leukemia	Female	6.2 (2.1-12.4)	4.1 (1.4-8.2)
Cyprus	Leukemia	Male	3.6 (1.3-6.7)	7.8 (3-14.1)
Cyprus	Multiple myeloma	Female	4.9 (1.4-10)	6.7 (3-11.1)
Cyprus	Multiple myeloma	Male	4.1 (1.1-9.1)	6.9 (3.3-11.3)
Cyprus	Non-Hodgkin lymphoma	Female	3.6 (0.6-8.2)	7 (3.1-11.9)
Cyprus	Non-Hodgkin lymphoma	Male	4.1 (1.3-8.5)	1.6 (0.6-3.3)
Czechia	Leukemia	Female	11 (4.3-19.8)	5.8 (2.6-10)
Czechia	Leukemia	Male	7 (3.3-11.5)	7.1 (3.5-11.4)
Czechia	Multiple myeloma	Female	8.7 (2.8-16.4)	6.5 (2.8-11.1)
Czechia	Multiple myeloma	Male	7.9 (2.3-15.6)	5.5 (2.5-9.3)
Czechia	Non-Hodgkin lymphoma	Female	6.2 (1.1-12.9)	9.7 (4.9-15)
Czechia	Non-Hodgkin lymphoma	Male	7.6 (2.7-14.2)	1.8 (0.7-3.5)
Côte d'Ivoire	Leukemia	Female	3.7 (1.2-7.3)	7.3 (3.5-12)
Côte d'Ivoire	Leukemia	Male	1.5 (0.5-3.1)	6 (2.6-10.4)
Côte d'Ivoire	Multiple myeloma	Female	4.7 (1.3-9.7)	2.4 (1-4.5)
Côte d'Ivoire	Multiple myeloma	Male	3.2 (0.8-7.3)	8.7 (4-14)
Côte d'Ivoire	Non-Hodgkin lymphoma	Female	2.8 (0.5-6.1)	5 (2.3-8.6)
Côte d'Ivoire	Non-Hodgkin lymphoma	Male	2.3 (0.7-5)	7.7 (3.7-12.6)
Democratic People's Republic of Korea	Leukemia	Female	1.4 (0.2-4.3)	6.5 (3.1-10.6)
Democratic People's Republic of Korea	Leukemia	Male	0.8 (0.1-2.2)	3.4 (1.3-6.5)
Democratic People's Republic of Korea	Multiple myeloma	Female	1.7 (0.3-5)	1.3 (0.4-2.8)
Democratic People's Republic of Korea	Multiple myeloma	Male	1.4 (0.2-4.3)	0.9 (0.2-2)
Democratic People's Republic of Korea	Non-Hodgkin lymphoma	Female	1.1 (0.1-3.3)	1.6 (0.5-3.2)
Democratic People's Republic of Korea	Non-Hodgkin lymphoma	Male	1.3 (0.2-3.6)	4 (1.8-6.7)
Democratic Republic of the Congo	Leukemia	Female	2 (0.5-5.2)	0.9 (0.2-2.1)
Democratic Republic of the Congo	Leukemia	Male	1.4 (0.4-3.4)	0.9 (0.3-2.1)
Democratic Republic of the Congo	Multiple myeloma	Female	3.5 (1-7.4)	3.3 (1.2-6.5)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Democratic Republic of the Congo	Multiple myeloma	Male	3.3 (0.9-7.4)	5 (2.3-8.5)
Democratic Republic of the Congo	Non-Hodgkin lymphoma	Female	1.9 (0.3-4.6)	3.7 (1.6-6.4)
Democratic Republic of the Congo	Non-Hodgkin lymphoma	Male	2.2 (0.6-5)	9.7 (4.8-15.1)
Denmark	Leukemia	Female	7.2 (2.6-14.1)	8.9 (4.3-14.4)
Denmark	Leukemia	Male	4.5 (1.8-8.3)	6.2 (2.9-10.6)
Denmark	Multiple myeloma	Female	5.5 (1.6-11.1)	9.7 (4.8-15.2)
Denmark	Multiple myeloma	Male	4.9 (1.4-10.6)	2.8 (1.2-5.1)
Denmark	Non-Hodgkin lymphoma	Female	4 (0.7-8.8)	1.8 (0.7-3.4)
Denmark	Non-Hodgkin lymphoma	Male	4.9 (1.7-10.1)	5.8 (2.5-10.2)
Djibouti	Leukemia	Female	0.6 (0.1-1.9)	6.8 (3.2-11.2)
Djibouti	Leukemia	Male	0.5 (0.1-1.3)	5 (2.2-8.8)
Djibouti	Multiple myeloma	Female	1.7 (0.3-4.5)	7.7 (3.7-12.4)
Djibouti	Multiple myeloma	Male	1.2 (0.2-3.8)	5.4 (2.4-9.3)
Djibouti	Non-Hodgkin lymphoma	Female	1 (0.1-2.8)	1 (0.3-2.1)
Djibouti	Non-Hodgkin lymphoma	Male	0.9 (0.2-2.7)	8.6 (4.3-13.5)
Dominica	Leukemia	Female	8.3 (3.1-15.3)	1.3 (0.4-2.7)
Dominica	Leukemia	Male	3.9 (1.6-7)	6.4 (3.2-10.2)
Dominica	Multiple myeloma	Female	7.3 (2.3-14.2)	6 (2.7-10.5)
Dominica	Multiple myeloma	Male	5.1 (1.4-10.9)	5 (2.4-8.3)
Dominica	Non-Hodgkin lymphoma	Female	5.2 (0.9-10.7)	6.7 (3.1-11.3)
Dominica	Non-Hodgkin lymphoma	Male	4.8 (1.6-9.7)	7.1 (3.1-12)
Dominican Republic	Leukemia	Female	3.2 (1-6.9)	6.4 (2.7-11.2)
Dominican Republic	Leukemia	Male	1.8 (0.5-3.8)	7.9 (3.7-13)
Dominican Republic	Multiple myeloma	Female	4.8 (1.3-10.1)	8.3 (4.1-13.3)
Dominican Republic	Multiple myeloma	Male	3.5 (0.8-8.5)	3.2 (1.3-5.9)
Dominican Republic	Non-Hodgkin lymphoma	Female	2.6 (0.4-6.2)	1.7 (0.6-3.5)
Dominican Republic	Non-Hodgkin lymphoma	Male	2.8 (0.8-6.2)	5 (2.2-8.6)
Ecuador	Leukemia	Female	6.9 (2.7-12.3)	4.1 (1.7-7.6)
Ecuador	Leukemia	Male	3.5 (1.6-5.9)	9.3 (4.7-14.6)
Ecuador	Multiple myeloma	Female	7.8 (2.6-15)	2.6 (1.1-4.6)
Ecuador	Multiple myeloma	Male	6.6 (1.8-13.3)	2.6 (1.1-4.7)
Ecuador	Non-Hodgkin lymphoma	Female	5.2 (0.9-10.6)	7.3 (3.5-11.7)
Ecuador	Non-Hodgkin lymphoma	Male	5.5 (1.9-10.6)	7.1 (3.2-12.1)
Egypt	Leukemia	Female	7.8 (3.1-14)	5.9 (2.6-10.4)
Egypt	Leukemia	Male	3.4 (1.4-6.4)	6.2 (3-10.3)
Egypt	Multiple myeloma	Female	9.4 (3.2-17.6)	9.4 (4.9-14.5)
Egypt	Multiple myeloma	Male	5.8 (1.6-12.3)	6.7 (3.3-10.8)
Egypt	Non-Hodgkin lymphoma	Female	5.4 (0.9-11.2)	4.9 (2-8.4)
Egypt	Non-Hodgkin lymphoma	Male	4.5 (1.5-9)	10.5 (5.4-15.8)
El Salvador	Leukemia	Female	4.7 (1.7-9.2)	2.1 (0.8-4)
El Salvador	Leukemia	Male	2.1 (0.7-4.2)	8.1 (4-13)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
El Salvador	Multiple myeloma	Female	6.3 (1.9-12.5)	3.5 (1.6-6.1)
El Salvador	Multiple myeloma	Male	4.5 (1.2-10.1)	3.8 (1.7-6.5)
El Salvador	Non-Hodgkin lymphoma	Female	3.8 (0.6-8.1)	8.4 (4-13.6)
El Salvador	Non-Hodgkin lymphoma	Male	3.6 (1.1-7.6)	6.2 (2.8-10.6)
Equatorial Guinea	Leukemia	Female	1.3 (0.2-3.7)	1.9 (0.7-3.7)
Equatorial Guinea	Leukemia	Male	0.6 (0.1-1.7)	4.8 (2.3-8.1)
Equatorial Guinea	Multiple myeloma	Female	2 (0.4-5)	1.6 (0.6-3.3)
Equatorial Guinea	Multiple myeloma	Male	1.3 (0.2-3.8)	5.5 (2.3-9.7)
Equatorial Guinea	Non-Hodgkin lymphoma	Female	1.2 (0.2-3.2)	4.5 (2.2-7.6)
Equatorial Guinea	Non-Hodgkin lymphoma	Male	1 (0.2-2.9)	4.7 (2.1-8.1)
Eritrea	Leukemia	Female	0.7 (0.2-1.9)	6.3 (3-10.5)
Eritrea	Leukemia	Male	0.3 (0.1-0.8)	8 (3.5-13.2)
Eritrea	Multiple myeloma	Female	1.7 (0.4-3.9)	9.7 (4.7-15.2)
Eritrea	Multiple myeloma	Male	0.9 (0.1-2.6)	6.5 (3-10.9)
Eritrea	Non-Hodgkin lymphoma	Female	0.9 (0.1-2.4)	1.8 (0.6-3.6)
Eritrea	Non-Hodgkin lymphoma	Male	0.7 (0.1-1.7)	3.6 (1.7-6.2)
Estonia	Leukemia	Female	10.5 (4.1-18.8)	2.5 (0.9-4.8)
Estonia	Leukemia	Male	5.1 (2.3-8.7)	5.8 (2.5-10.3)
Estonia	Multiple myeloma	Female	8.5 (2.8-16.2)	4 (1.8-7.2)
Estonia	Multiple myeloma	Male	6.3 (1.8-12.8)	0.9 (0.3-2)
Estonia	Non-Hodgkin lymphoma	Female	6.1 (1.1-12.5)	7.5 (3.6-12.1)
Estonia	Non-Hodgkin lymphoma	Male	5.6 (2-11.1)	8.5 (4.1-13.5)
Eswatini	Leukemia	Female	9.1 (3.7-16.3)	5.4 (2.3-9.6)
Eswatini	Leukemia	Male	3.4 (1.5-6.2)	8.5 (4.2-13.4)
Eswatini	Multiple myeloma	Female	10.1 (3.5-18.8)	9 (4.4-14)
Eswatini	Multiple myeloma	Male	5.7 (1.7-11.9)	5.3 (2.4-8.9)
Eswatini	Non-Hodgkin lymphoma	Female	6.3 (1.2-12.8)	2.1 (0.7-4.4)
Eswatini	Non-Hodgkin lymphoma	Male	4.7 (1.7-9.4)	5.7 (2.6-9.6)
Ethiopia	Leukemia	Female	0.7 (0.1-2.3)	2.5 (1.1-4.5)
Ethiopia	Leukemia	Male	0.4 (0-1.2)	9.2 (4.5-14.6)
Ethiopia	Multiple myeloma	Female	1.4 (0.2-3.8)	9 (4.3-14.4)
Ethiopia	Multiple myeloma	Male	1 (0.1-3.3)	12.3 (6.5-18.3)
Ethiopia	Non-Hodgkin lymphoma	Female	1 (0.1-2.8)	7.1 (3.4-11.4)
Ethiopia	Non-Hodgkin lymphoma	Male	1 (0.2-2.8)	8.6 (4.4-13.8)
Fiji	Leukemia	Female	7.6 (3-13.5)	1.4 (0.4-3)
Fiji	Leukemia	Male	3.7 (1.5-7)	6.8 (3.2-11.3)
Fiji	Multiple myeloma	Female	8.7 (2.9-16.3)	5.9 (2.6-10.1)
Fiji	Multiple myeloma	Male	5.9 (1.6-12.6)	6.9 (3.3-11.3)
Fiji	Non-Hodgkin lymphoma	Female	5.5 (1-11.1)	4.5 (2-7.9)
Fiji	Non-Hodgkin lymphoma	Male	5.2 (1.7-10.5)	10.9 (5.8-16.6)
Finland	Leukemia	Female	8.6 (3.1-16.1)	9.2 (4.5-14.7)
Finland	Leukemia	Male	5.1 (2.1-9.1)	4.9 (2.2-8.4)
Finland	Multiple myeloma	Female	6.5 (2-12.9)	4.3 (1.8-7.7)
Finland	Multiple myeloma	Male	5.7 (1.6-12.1)	8.8 (4.1-14.1)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Finland	Non-Hodgkin lymphoma	Female	4.8 (0.8-10.1)	3.9 (1.5-7.2)
Finland	Non-Hodgkin lymphoma	Male	5.7 (2-11.4)	0.4 (0.1-1.2)
France	Leukemia	Female	7.4 (2.8-14.2)	1.6 (0.6-3.2)
France	Leukemia	Male	4.7 (1.9-8.4)	6.9 (3-11.6)
France	Multiple myeloma	Female	5.7 (1.7-11.1)	4.5 (2.1-7.7)
France	Multiple myeloma	Male	5.1 (1.4-11.2)	5.5 (2.5-9.4)
France	Non-Hodgkin lymphoma	Female	4.2 (0.7-8.8)	5.8 (2.5-10.1)
France	Non-Hodgkin lymphoma	Male	5.1 (1.8-10.4)	7 (3.3-11.5)
Gabon	Leukemia	Female	4.5 (1.5-9)	2 (0.7-4.2)
Gabon	Leukemia	Male	1.6 (0.5-3.5)	4 (1.7-7.1)
Gabon	Multiple myeloma	Female	5.2 (1.5-10.6)	2.2 (0.9-4.1)
Gabon	Multiple myeloma	Male	2.8 (0.6-6.8)	6.3 (2.9-10.5)
Gabon	Non-Hodgkin lymphoma	Female	3.3 (0.6-7.5)	7.1 (3.4-11.7)
Gabon	Non-Hodgkin lymphoma	Male	2.3 (0.6-5.4)	7.1 (3.3-11.8)
Gambia	Leukemia	Female	3.4 (1.1-7.4)	5.7 (2.8-9.3)
Gambia	Leukemia	Male	1.2 (0.4-2.6)	5.4 (2.3-9.4)
Gambia	Multiple myeloma	Female	4 (1.1-8.7)	7.1 (3.5-11.5)
Gambia	Multiple myeloma	Male	2.4 (0.5-5.9)	13.3 (7.3-19.5)
Gambia	Non-Hodgkin lymphoma	Female	2.1 (0.3-5)	1.7 (0.7-3.2)
Gambia	Non-Hodgkin lymphoma	Male	1.7 (0.4-4.1)	8.9 (4.3-14.2)
Georgia	Leukemia	Female	8.1 (3.2-14.5)	5.9 (2.5-10.3)
Georgia	Leukemia	Male	4.5 (2.1-7.7)	5 (2.4-8.3)
Georgia	Multiple myeloma	Female	8.5 (2.8-15.8)	5.3 (2.4-9)
Georgia	Multiple myeloma	Male	6.8 (1.9-13.9)	1.9 (0.7-3.8)
Georgia	Non-Hodgkin lymphoma	Female	6.2 (1.1-12.5)	2 (0.8-4.1)
Georgia	Non-Hodgkin lymphoma	Male	6.5 (2.4-12.7)	1.9 (0.7-3.8)
Germany	Leukemia	Female	9.5 (3.5-17.6)	8.8 (3.8-15.3)
Germany	Leukemia	Male	5.7 (2.4-9.9)	9.6 (4.3-16.2)
Germany	Multiple myeloma	Female	7.3 (2.2-14)	7.9 (3.3-14.3)
Germany	Multiple myeloma	Male	6.3 (1.8-13.2)	3.9 (1.5-7.4)
Germany	Non-Hodgkin lymphoma	Female	5.3 (0.9-11)	7.7 (3.3-13.8)
Germany	Non-Hodgkin lymphoma	Male	6.3 (2.2-12.5)	9.9 (4.4-16.8)
Ghana	Leukemia	Female	3 (0.9-6.6)	7.4 (3.1-13.3)
Ghana	Leukemia	Male	1 (0.2-2.3)	9.7 (4.3-16.5)
Ghana	Multiple myeloma	Female	3.3 (0.8-7.2)	11.9 (5.7-19.7)
Ghana	Multiple myeloma	Male	2.1 (0.4-5.5)	2.4 (0.9-5)
Ghana	Non-Hodgkin lymphoma	Female	1.7 (0.3-4)	9.6 (4.2-16.6)
Ghana	Non-Hodgkin lymphoma	Male	1.3 (0.3-3.2)	6.9 (3-12.3)
Greece	Leukemia	Female	9.3 (3.4-17.7)	6.6 (2.8-11.9)
Greece	Leukemia	Male	5.3 (2.2-9.6)	10.3 (4.5-17.6)
Greece	Multiple myeloma	Female	7.1 (2.1-14.2)	8.6 (3.9-14.9)
Greece	Multiple myeloma	Male	5.8 (1.6-12.3)	9.1 (4.1-15.8)
Greece	Non-Hodgkin lymphoma	Female	5.2 (0.9-11.2)	8.7 (3.9-14.9)
Greece	Non-Hodgkin lymphoma	Male	5.8 (2-11.7)	4.5 (1.7-8.7)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Greenland	Leukemia	Female	9.5 (3.5-17.4)	4.8 (1.7-9.4)
Greenland	Leukemia	Male	5.3 (2.3-9.2)	2.3 (0.8-4.9)
Greenland	Multiple myeloma	Female	8.1 (2.6-15.4)	2.7 (0.9-5.6)
Greenland	Multiple myeloma	Male	6.5 (1.8-13.4)	8.3 (3.7-14.4)
Greenland	Non-Hodgkin lymphoma	Female	5.6 (1-11.8)	2.3 (0.8-5.1)
Greenland	Non-Hodgkin lymphoma	Male	6.1 (2.1-11.9)	3.1 (1.1-6.1)
Grenada	Leukemia	Female	5.1 (1.7-10.2)	4.1 (1.4-8.4)
Grenada	Leukemia	Male	2.4 (0.7-4.8)	7.7 (3.3-13.7)
Grenada	Multiple myeloma	Female	4.8 (1.4-9.8)	6.4 (2.8-11.1)
Grenada	Multiple myeloma	Male	3 (0.7-7.2)	10.7 (5-18.1)
Grenada	Non-Hodgkin lymphoma	Female	3.4 (0.5-7.5)	9.9 (4.5-16.7)
Grenada	Non-Hodgkin lymphoma	Male	2.9 (0.8-6.6)	8.2 (3.5-14.1)
Guam	Leukemia	Female	9.3 (3.6-16.7)	10.7 (4.9-18)
Guam	Leukemia	Male	5.9 (2.6-10.1)	5.7 (2.4-10.5)
Guam	Multiple myeloma	Female	8.9 (2.9-17)	3.3 (1.3-6.6)
Guam	Multiple myeloma	Male	7.6 (2-15.7)	6.6 (2.8-11.9)
Guam	Non-Hodgkin lymphoma	Female	6 (1-12.2)	9.1 (4-15.8)
Guam	Non-Hodgkin lymphoma	Male	7.4 (2.6-14.4)	7 (2.8-12.4)
Guatemala	Leukemia	Female	2.6 (0.7-6)	10.8 (5-18.4)
Guatemala	Leukemia	Male	1.3 (0.3-3)	8.2 (3.5-14.7)
Guatemala	Multiple myeloma	Female	3.9 (0.9-9)	3.2 (1.2-6.1)
Guatemala	Multiple myeloma	Male	2.8 (0.5-7.2)	10.6 (4.8-17.9)
Guatemala	Non-Hodgkin lymphoma	Female	2.3 (0.4-5.6)	2.8 (1-5.8)
Guatemala	Non-Hodgkin lymphoma	Male	2.1 (0.5-5.2)	9.5 (4.3-15.9)
Guinea	Leukemia	Female	3.7 (1.2-7.6)	6.8 (3-12.3)
Guinea	Leukemia	Male	0.9 (0.2-2.3)	8.1 (3.7-14.2)
Guinea	Multiple myeloma	Female	3.7 (1-8.1)	8.5 (3.7-14.8)
Guinea	Multiple myeloma	Male	1.7 (0.3-4.6)	8 (3.4-14)
Guinea	Non-Hodgkin lymphoma	Female	2.1 (0.3-5.1)	7.4 (3.1-13.5)
Guinea	Non-Hodgkin lymphoma	Male	1.1 (0.2-3)	8.9 (3.8-16)
Guinea-Bissau	Leukemia	Female	2.6 (0.7-6)	9.6 (4.2-16.8)
Guinea-Bissau	Leukemia	Male	0.8 (0.2-2)	6 (2.4-11.3)
Guinea-Bissau	Multiple myeloma	Female	3.2 (0.8-7.3)	4.1 (1.5-8.2)
Guinea-Bissau	Multiple myeloma	Male	1.7 (0.3-4.6)	8.1 (3.2-14.6)
Guinea-Bissau	Non-Hodgkin lymphoma	Female	1.8 (0.3-4.6)	6.9 (2.8-12.5)
Guinea-Bissau	Non-Hodgkin lymphoma	Male	1.2 (0.2-3.2)	10.3 (4.9-17.2)
Guyana	Leukemia	Female	5 (1.7-9.8)	3.8 (1.6-6.9)
Guyana	Leukemia	Male	2.4 (0.8-4.8)	4.2 (1.7-7.7)
Guyana	Multiple myeloma	Female	5.9 (1.7-11.9)	9.7 (4.5-16.7)
Guyana	Multiple myeloma	Male	3.9 (0.9-8.9)	7.8 (3.4-13.9)
Guyana	Non-Hodgkin lymphoma	Female	3.6 (0.6-7.9)	6.8 (2.9-12.4)
Guyana	Non-Hodgkin lymphoma	Male	3.3 (1-7.3)	8.4 (3.8-14.4)
Haiti	Leukemia	Female	1.5 (0.4-3.9)	12.8 (6.1-20.9)
Haiti	Leukemia	Male	0.8 (0.2-2.2)	10.6 (4.7-17.6)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Haiti	Multiple myeloma	Female	2.6 (0.6-5.9)	7.2 (2.9-13.4)
Haiti	Multiple myeloma	Male	1.8 (0.4-4.7)	13.6 (6.6-22.1)
Haiti	Non-Hodgkin lymphoma	Female	1.4 (0.2-3.5)	3.8 (1.5-7)
Haiti	Non-Hodgkin lymphoma	Male	1.3 (0.3-3.2)	10.4 (4.5-17.7)
Honduras	Leukemia	Female	2.6 (0.8-5.5)	7.7 (3.3-13.7)
Honduras	Leukemia	Male	1.4 (0.4-3.1)	7 (2.9-12.4)
Honduras	Multiple myeloma	Female	5.1 (1.4-10.8)	10.1 (4.4-17.2)
Honduras	Multiple myeloma	Male	3.4 (0.8-8.4)	7.2 (3-12.7)
Honduras	Non-Hodgkin lymphoma	Female	2.6 (0.4-6.3)	4.3 (1.6-8.2)
Honduras	Non-Hodgkin lymphoma	Male	2.8 (0.8-6.5)	6.2 (2.9-10.9)
Hungary	Leukemia	Female	12.2 (4.8-21.1)	4.5 (1.8-8.5)
Hungary	Leukemia	Male	7.3 (3.5-11.8)	6.6 (2.8-12.1)
Hungary	Multiple myeloma	Female	9.5 (3.3-17.6)	8.1 (3.5-14.2)
Hungary	Multiple myeloma	Male	8.4 (2.4-16.1)	6.7 (2.9-11.9)
Hungary	Non-Hodgkin lymphoma	Female	6.8 (1.2-13.8)	9 (4-15.4)
Hungary	Non-Hodgkin lymphoma	Male	8 (3-14.9)	8.8 (3.7-16)
Iceland	Leukemia	Female	9.8 (3.7-18.1)	10.9 (5.1-18.4)
Iceland	Leukemia	Male	5.7 (2.3-9.9)	8.7 (3.8-15.3)
Iceland	Multiple myeloma	Female	7.6 (2.4-14.6)	3.5 (1.3-6.9)
Iceland	Multiple myeloma	Male	6.5 (1.8-13.6)	6.5 (3-11.3)
Iceland	Non-Hodgkin lymphoma	Female	5.6 (0.9-11.6)	3.4 (1.2-6.8)
Iceland	Non-Hodgkin lymphoma	Male	6.3 (2.1-12.6)	6.7 (2.8-12.3)
India	Leukemia	Female	1.3 (0.3-3.1)	7.6 (3.1-13.6)
India	Leukemia	Male	0.7 (0.2-1.7)	3.5 (1.3-6.9)
India	Multiple myeloma	Female	1.8 (0.4-4.1)	9.3 (4.1-16.1)
India	Multiple myeloma	Male	1.2 (0.3-3.3)	9.8 (4.4-16.9)
India	Non-Hodgkin lymphoma	Female	1.1 (0.2-2.8)	6 (2.5-11)
India	Non-Hodgkin lymphoma	Male	1 (0.2-2.5)	11.5 (5.4-19.2)
Indonesia	Leukemia	Female	1.6 (0.4-3.9)	10.1 (4.7-16.8)
Indonesia	Leukemia	Male	0.6 (0.1-1.7)	8 (3.5-14.1)
Indonesia	Multiple myeloma	Female	1.8 (0.3-4.5)	4 (1.3-8.4)
Indonesia	Multiple myeloma	Male	1.3 (0.2-3.8)	7.8 (3.4-13.9)
Indonesia	Non-Hodgkin lymphoma	Female	1.2 (0.2-3.2)	4.3 (1.8-7.9)
Indonesia	Non-Hodgkin lymphoma	Male	1.1 (0.2-2.9)	10.4 (4.7-17.6)
Iran (Islamic Republic of)	Leukemia	Female	4.6 (1.7-8.8)	10.4 (4.8-17.1)
Iran (Islamic Republic of)	Leukemia	Male	2.3 (0.9-4.3)	14.7 (6.3-24.6)
Iran (Islamic Republic of)	Multiple myeloma	Female	6.8 (2.2-13.2)	10.1 (4.4-17.2)
Iran (Islamic Republic of)	Multiple myeloma	Male	4.1 (1.2-8.7)	9.8 (4.7-16.4)
Iran (Islamic Republic of)	Non-Hodgkin lymphoma	Female	4 (0.7-8.3)	4 (1.4-8.1)
Iran (Islamic Republic of)	Non-Hodgkin lymphoma	Male	3.3 (1.2-6.7)	8.7 (3.9-15.1)
Iraq	Leukemia	Female	7.6 (2.9-13.8)	7.8 (3.4-13.9)
Iraq	Leukemia	Male	4.5 (1.9-7.8)	8.8 (3.9-15.5)
Iraq	Multiple myeloma	Female	9.6 (3.3-18)	7.2 (3.1-12.6)
Iraq	Multiple myeloma	Male	7.8 (2.2-15.4)	13.2 (6.5-21.6)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Iraq	Non-Hodgkin lymphoma	Female	5.6 (1-11.8)	10.3 (4.7-17.2)
Iraq	Non-Hodgkin lymphoma	Male	6.1 (2.1-11.5)	6.3 (2.7-11.3)
Ireland	Leukemia	Female	8.4 (3.1-16.3)	4.9 (2-9.2)
Ireland	Leukemia	Male	5.3 (2.2-9.5)	10.3 (4.6-17)
Ireland	Multiple myeloma	Female	6.6 (2-13)	6 (2.3-11.4)
Ireland	Multiple myeloma	Male	5.9 (1.6-12.4)	1.5 (0.3-3.8)
Ireland	Non-Hodgkin lymphoma	Female	4.9 (0.8-10.5)	5.1 (2.2-9.2)
Ireland	Non-Hodgkin lymphoma	Male	6 (2-12)	8 (3.4-14.4)
Israel	Leukemia	Female	9.1 (3.4-17)	7.7 (3.5-13.6)
Israel	Leukemia	Male	4.9 (2.1-8.8)	7.6 (3.2-13.7)
Israel	Multiple myeloma	Female	7.3 (2.2-14.4)	6.6 (2.9-11.9)
Israel	Multiple myeloma	Male	5.6 (1.6-12.1)	9.6 (4.3-16.4)
Israel	Non-Hodgkin lymphoma	Female	5.3 (0.9-11.1)	4.3 (1.7-8.3)
Israel	Non-Hodgkin lymphoma	Male	5.5 (2-11.1)	5.3 (2.2-9.8)
Italy	Leukemia	Female	8.1 (3-15.4)	5.1 (2.1-9.4)
Italy	Leukemia	Male	4.7 (2-8.7)	8 (3.3-14.2)
Italy	Multiple myeloma	Female	6.4 (1.9-12.6)	9.8 (4.4-16.6)
Italy	Multiple myeloma	Male	5.4 (1.5-11.7)	9.3 (4-16)
Italy	Non-Hodgkin lymphoma	Female	4.7 (0.8-10.1)	9.8 (4.5-16.6)
Italy	Non-Hodgkin lymphoma	Male	5.4 (1.8-10.8)	6.7 (2.7-12.3)
Jamaica	Leukemia	Female	6.9 (2.6-12.5)	10.1 (4.5-17)
Jamaica	Leukemia	Male	2.6 (0.9-5)	14.6 (6-24.9)
Jamaica	Multiple myeloma	Female	7.2 (2.3-14.1)	5.1 (2.1-9.1)
Jamaica	Multiple myeloma	Male	3.9 (1-9.1)	10 (4.7-16.7)
Jamaica	Non-Hodgkin lymphoma	Female	5 (0.9-10.2)	7.6 (3.1-13.6)
Jamaica	Non-Hodgkin lymphoma	Male	3.7 (1.2-7.9)	8.5 (3.8-14.8)
Japan	Leukemia	Female	4 (1-9.2)	7.7 (3.3-13.7)
Japan	Leukemia	Male	2.3 (0.6-5.1)	2.6 (0.9-5.4)
Japan	Multiple myeloma	Female	3.2 (0.7-7.4)	5 (2.1-9.1)
Japan	Multiple myeloma	Male	2.5 (0.5-6.6)	5.7 (2.2-10.5)
Japan	Non-Hodgkin lymphoma	Female	2.3 (0.4-5.8)	9.5 (3.2-18.1)
Japan	Non-Hodgkin lymphoma	Male	2.5 (0.6-6.1)	11 (3.8-20.1)
Jordan	Leukemia	Female	9 (3.6-15.9)	8.4 (2.7-16)
Jordan	Leukemia	Male	4.6 (2.1-8)	4.5 (1.3-9.1)
Jordan	Multiple myeloma	Female	10.3 (3.5-19.3)	8.4 (2.8-16.2)
Jordan	Multiple myeloma	Male	7.6 (2.2-15.6)	10.9 (3.7-19.8)
Jordan	Non-Hodgkin lymphoma	Female	6.6 (1.2-13.2)	7.9 (2.6-15.3)
Jordan	Non-Hodgkin lymphoma	Male	6.6 (2.4-12.5)	11 (3.7-20.1)
Kazakhstan	Leukemia	Female	8.3 (3.3-14.6)	13.4 (4.8-24)
Kazakhstan	Leukemia	Male	3.4 (1.5-6)	2.6 (0.7-5.6)
Kazakhstan	Multiple myeloma	Female	9.8 (3.3-18.2)	10.7 (3.6-19.5)
Kazakhstan	Multiple myeloma	Male	6 (1.7-12.5)	7.5 (2.3-14.5)
Kazakhstan	Non-Hodgkin lymphoma	Female	5.8 (1-11.9)	7.6 (2.5-14.4)
Kazakhstan	Non-Hodgkin lymphoma	Male	4.8 (1.7-9.3)	11.2 (3.9-20.6)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Kenya	Leukemia	Female	1.7 (0.5-4)	9.6 (3.3-18.1)
Kenya	Leukemia	Male	1 (0.3-2.2)	9.8 (3.3-18.2)
Kenya	Multiple myeloma	Female	3.6 (0.9-7.7)	9.3 (3.2-17.2)
Kenya	Multiple myeloma	Male	2.3 (0.5-5.8)	4.8 (1.4-10)
Kenya	Non-Hodgkin lymphoma	Female	2.2 (0.3-5)	6.3 (1.9-12.7)
Kenya	Non-Hodgkin lymphoma	Male	1.8 (0.5-4.3)	2.9 (0.8-6.4)
Kiribati	Leukemia	Female	7 (2.6-13.1)	3 (0.8-6.6)
Kiribati	Leukemia	Male	3.9 (1.6-6.9)	9.6 (3.2-18.1)
Kiribati	Multiple myeloma	Female	6.9 (2.1-13.8)	2.9 (0.8-6.3)
Kiribati	Multiple myeloma	Male	5.9 (1.6-12.5)	4 (1.1-8.2)
Kiribati	Non-Hodgkin lymphoma	Female	4.6 (0.8-9.7)	4.4 (1.1-9.7)
Kiribati	Non-Hodgkin lymphoma	Male	5.3 (1.8-10.5)	8.6 (2.8-16.4)
Kuwait	Leukemia	Female	9.5 (4-16)	7.5 (2.6-14.3)
Kuwait	Leukemia	Male	5.9 (2.8-9.6)	11.1 (3.8-20.6)
Kuwait	Multiple myeloma	Female	12.1 (4.3-22)	10.3 (3.4-19.1)
Kuwait	Multiple myeloma	Male	9.2 (2.6-17.9)	9.6 (3.2-17.8)
Kuwait	Non-Hodgkin lymphoma	Female	7.6 (1.4-15)	11 (3.9-20.7)
Kuwait	Non-Hodgkin lymphoma	Male	7.9 (3-14.4)	6.5 (2-12.7)
Kyrgyzstan	Leukemia	Female	5.5 (2-10.3)	3.4 (0.9-7.1)
Kyrgyzstan	Leukemia	Male	2.4 (0.9-4.4)	7.1 (2.3-13.7)
Kyrgyzstan	Multiple myeloma	Female	7.2 (2.3-13.8)	10.3 (3.5-19.3)
Kyrgyzstan	Multiple myeloma	Male	4.9 (1.3-10.5)	7.5 (2.4-14.8)
Kyrgyzstan	Non-Hodgkin lymphoma	Female	4.7 (0.8-10)	13.4 (4.9-24.2)
Kyrgyzstan	Non-Hodgkin lymphoma	Male	3.9 (1.4-7.9)	9.1 (3-17.3)
Lao People's Democratic Republic	Leukemia	Female	1.2 (0.2-3.3)	4 (1.2-8.1)
Lao People's Democratic Republic	Leukemia	Male	0.5 (0.1-1.4)	11.6 (3.9-21.2)
Lao People's Democratic Republic	Multiple myeloma	Female	1.7 (0.3-4.3)	3.2 (0.8-6.9)
Lao People's Democratic Republic	Multiple myeloma	Male	1.1 (0.1-3.3)	10.5 (3.6-19.5)
Lao People's Democratic Republic	Non-Hodgkin lymphoma	Female	1 (0.1-2.7)	7.4 (2.4-14.1)
Lao People's Democratic Republic	Non-Hodgkin lymphoma	Male	0.8 (0.1-2.5)	9.8 (3.5-18.4)
Latvia	Leukemia	Female	11.6 (4.5-20.5)	9.2 (3.1-17.1)
Latvia	Leukemia	Male	5.2 (2.3-9)	8.5 (2.8-16.2)
Latvia	Multiple myeloma	Female	9.7 (3.2-18.5)	8.1 (2.7-16)
Latvia	Multiple myeloma	Male	6.4 (1.8-13.1)	9.7 (3.3-18.4)
Latvia	Non-Hodgkin lymphoma	Female	6.8 (1.2-13.8)	10.7 (3.7-19.9)
Latvia	Non-Hodgkin lymphoma	Male	5.7 (2-11.5)	6.7 (2-13.5)
Lebanon	Leukemia	Female	9.5 (3.7-17.5)	5.1 (1.6-10.7)
Lebanon	Leukemia	Male	4.7 (2-8.2)	8.9 (3-16.9)



Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Lebanon	Multiple myeloma	Female	8.7 (2.8-16.4)	7.9 (2.5-15.2)
Lebanon	Multiple myeloma	Male	6.1 (1.7-12.7)	10.6 (3.6-19.7)
Lebanon	Non-Hodgkin lymphoma	Female	5.9 (1-12.1)	4.3 (1.3-8.4)
Lebanon	Non-Hodgkin lymphoma	Male	5.6 (2-11.2)	5 (1.5-10)
Lesotho	Leukemia	Female	6 (2.1-11.5)	10.3 (3.6-19.1)
Lesotho	Leukemia	Male	1.5 (0.4-3.4)	8.2 (2.7-15.8)
Lesotho	Multiple myeloma	Female	5.9 (1.8-11.7)	7.4 (2.3-14.4)
Lesotho	Multiple myeloma	Male	2.2 (0.5-5.5)	10.2 (3.5-18.5)
Lesotho	Non-Hodgkin lymphoma	Female	3.9 (0.6-8.4)	13.9 (5-24.9)
Lesotho	Non-Hodgkin lymphoma	Male	1.9 (0.4-4.6)	11.9 (4.2-21.8)
Liberia	Leukemia	Female	5 (1.8-9.8)	7.5 (2.3-14.8)
Liberia	Leukemia	Male	1.6 (0.5-3.7)	15.7 (5.8-27.5)
Liberia	Multiple myeloma	Female	5.9 (1.7-11.9)	4.2 (1.3-8.4)
Liberia	Multiple myeloma	Male	3.3 (0.8-7.6)	11.6 (4-21.3)
Liberia	Non-Hodgkin lymphoma	Female	3.6 (0.6-7.7)	10.4 (3.6-19.2)
Liberia	Non-Hodgkin lymphoma	Male	2.3 (0.7-5.4)	8.1 (2.7-15.3)
Libya	Leukemia	Female	8.1 (3.1-14.8)	11 (3.9-20)
Libya	Leukemia	Male	4.5 (2-7.9)	7.6 (2.5-14.5)
Libya	Multiple myeloma	Female	10 (3.4-18.6)	4.9 (1.4-10.2)
Libya	Multiple myeloma	Male	7 (2-14)	6.8 (2.1-13)
Libya	Non-Hodgkin lymphoma	Female	6.3 (1.2-12.8)	5.6 (1.7-11)
Libya	Non-Hodgkin lymphoma	Male	6 (2.3-11.7)	7.4 (2.3-14.4)
Lithuania	Leukemia	Female	10.9 (4.3-19.8)	9.1 (3-17)
Lithuania	Leukemia	Male	5.2 (2.2-9.1)	7.8 (2.5-15.1)
Lithuania	Multiple myeloma	Female	9.2 (3.1-17.2)	10 (3.5-18.6)
Lithuania	Multiple myeloma	Male	6.3 (1.8-13.2)	9.5 (3.1-18)
Lithuania	Non-Hodgkin lymphoma	Female	6.4 (1.1-13.1)	11.2 (3.9-20.6)
Lithuania	Non-Hodgkin lymphoma	Male	5.7 (2-11.5)	10.2 (3.3-18.9)
Luxembourg	Leukemia	Female	8.7 (3.3-16.4)	4.2 (1.2-8.5)
Luxembourg	Leukemia	Male	5.2 (2.2-9.2)	8.2 (2.9-15.4)
Luxembourg	Multiple myeloma	Female	6.7 (2-13)	3.8 (1-8.1)
Luxembourg	Multiple myeloma	Male	5.8 (1.7-12.3)	7.4 (2.3-14.3)
Luxembourg	Non-Hodgkin lymphoma	Female	4.9 (0.9-10.2)	8.7 (2.9-16.6)
Luxembourg	Non-Hodgkin lymphoma	Male	5.7 (2-11.4)	4.4 (1.3-9.4)
Madagascar	Leukemia	Female	1 (0.3-2.2)	9.8 (3.3-18.2)
Madagascar	Leukemia	Male	0.5 (0.1-1.1)	10.4 (3.5-19.2)
Madagascar	Multiple myeloma	Female	2.4 (0.6-5.3)	6.6 (2-12.8)
Madagascar	Multiple myeloma	Male	1.3 (0.2-3.5)	12.9 (4.6-23.2)
Madagascar	Non-Hodgkin lymphoma	Female	1.3 (0.2-3.1)	10.4 (3.7-19.4)
Madagascar	Non-Hodgkin lymphoma	Male	0.9 (0.2-2.4)	9.4 (3.2-17.3)
Malawi	Leukemia	Female	1.1 (0.2-3.1)	4.8 (1.3-10.2)
Malawi	Leukemia	Male	0.6 (0.1-1.6)	8.3 (2.7-16)
Malawi	Multiple myeloma	Female	2.1 (0.4-5.5)	4.8 (1.4-9.3)
Malawi	Multiple myeloma	Male	1.7 (0.3-4.8)	11 (3.9-20)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Malawi	Non-Hodgkin lymphoma	Female	0.9 (0.1-2.7)	11.1 (3.9-20.4)
Malawi	Non-Hodgkin lymphoma	Male	0.9 (0.2-2.6)	16.4 (6.2-28.4)
Malaysia	Leukemia	Female	3.8 (1.2-7.8)	11.4 (3.9-21)
Malaysia	Leukemia	Male	1.8 (0.7-3.6)	10.2 (3.5-18.8)
Malaysia	Multiple myeloma	Female	4 (1.1-8.5)	5.1 (1.4-10.3)
Malaysia	Multiple myeloma	Male	3 (0.7-6.9)	9.8 (3.3-18.3)
Malaysia	Non-Hodgkin lymphoma	Female	2.8 (0.5-6.4)	9 (3-16.9)
Malaysia	Non-Hodgkin lymphoma	Male	2.8 (0.9-5.9)	9.1 (3.1-17.2)
Maldives	Leukemia	Female	1.3 (0.3-3.5)	8 (2.6-15.4)
Maldives	Leukemia	Male	0.6 (0.1-1.6)	15.3 (5.7-26.8)
Maldives	Multiple myeloma	Female	1.9 (0.4-5)	10.6 (3.7-19.4)
Maldives	Multiple myeloma	Male	1.3 (0.2-3.9)	7.1 (2.2-13.8)
Maldives	Non-Hodgkin lymphoma	Female	1.2 (0.2-3.4)	5.1 (1.5-10.3)
Maldives	Non-Hodgkin lymphoma	Male	1 (0.2-3)	10.9 (3.8-20.2)
Mali	Leukemia	Female	2.2 (0.6-5.2)	6.6 (2-13.2)
Mali	Leukemia	Male	0.7 (0.2-1.9)	1.8 (0.3-4.7)
Mali	Multiple myeloma	Female	2.7 (0.7-6.3)	6.3 (2-12.1)
Mali	Multiple myeloma	Male	1.5 (0.3-4.3)	8.8 (2.9-16.9)
Mali	Non-Hodgkin lymphoma	Female	1.4 (0.2-3.6)	9 (3.1-17.2)
Mali	Non-Hodgkin lymphoma	Male	1 (0.2-2.9)	9.1 (3-17)
Malta	Leukemia	Female	7.4 (2.7-14.2)	7.1 (2.2-13.5)
Malta	Leukemia	Male	3.9 (1.5-7.4)	10.9 (3.8-20)
Malta	Multiple myeloma	Female	5.8 (1.6-11.8)	5.6 (1.6-11.1)
Malta	Multiple myeloma	Male	4.4 (1.1-9.9)	6 (1.8-12)
Malta	Non-Hodgkin lymphoma	Female	4.2 (0.7-9.1)	6.4 (2-12.2)
Malta	Non-Hodgkin lymphoma	Male	4.4 (1.4-9)	8.6 (2.8-16.5)
Marshall Islands	Leukemia	Female	4.5 (1.4-9.6)	11.2 (3.9-20.7)
Marshall Islands	Leukemia	Male	2.6 (0.8-5.6)	10.6 (3.7-19.9)
Marshall Islands	Multiple myeloma	Female	4.9 (1.2-10.7)	10.6 (3.5-19.6)
Marshall Islands	Multiple myeloma	Male	3.8 (0.8-9)	7.3 (2.2-14.2)
Marshall Islands	Non-Hodgkin lymphoma	Female	3.1 (0.5-7.2)	11.8 (4.2-21.6)
Marshall Islands	Non-Hodgkin lymphoma	Male	3.4 (0.9-7.7)	15.6 (5.9-27.2)
Mauritania	Leukemia	Female	6.5 (2.5-12.2)	6.2 (2-12)
Mauritania	Leukemia	Male	2.1 (0.8-4.1)	10.7 (3.7-19.6)
Mauritania	Multiple myeloma	Female	6.2 (1.9-12.3)	8.3 (2.8-16.1)
Mauritania	Multiple myeloma	Male	3.5 (0.9-8)	9.5 (3.2-18)
Mauritania	Non-Hodgkin lymphoma	Female	4 (0.7-8.3)	8.6 (2.8-16.4)
Mauritania	Non-Hodgkin lymphoma	Male	2.7 (0.8-5.9)	3 (0.8-6.5)
Mauritius	Leukemia	Female	4.5 (1.7-8.8)	5.9 (1.9-11.6)
Mauritius	Leukemia	Male	1.9 (0.8-3.7)	7.5 (2.4-14)
Mauritius	Multiple myeloma	Female	5.1 (1.5-10)	8.1 (2.3-16.2)
Mauritius	Multiple myeloma	Male	3.2 (0.8-7)	8.3 (2.3-16.2)
Mauritius	Non-Hodgkin lymphoma	Female	3.2 (0.6-7.1)	7.4 (2-15)
Mauritius	Non-Hodgkin lymphoma	Male	2.8 (0.9-5.8)	3.4 (0.9-7.4)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Mexico	Leukemia	Female	5.7 (2.2-10.5)	6.9 (1.9-14.1)
Mexico	Leukemia	Male	3.1 (1.3-5.4)	8.5 (2.6-16.6)
Mexico	Multiple myeloma	Female	8.7 (2.9-16.6)	6.9 (1.8-14.1)
Mexico	Multiple myeloma	Male	6.7 (1.8-13.9)	8.4 (2.4-16.7)
Mexico	Non-Hodgkin lymphoma	Female	4.9 (0.9-10)	11.1 (3.3-20.5)
Mexico	Non-Hodgkin lymphoma	Male	5.1 (1.8-10)	2.3 (0.6-5.3)
Micronesia (Federated States of)	Leukemia	Female	8.1 (3.2-14.7)	8.1 (2.3-15.9)
Micronesia (Federated States of)	Leukemia	Male	4.1 (1.7-7.2)	6.3 (1.8-13.2)
Micronesia (Federated States of)	Multiple myeloma	Female	8 (2.5-15.5)	5.6 (1.7-11.5)
Micronesia (Federated States of)	Multiple myeloma	Male	5.9 (1.7-12.5)	9.4 (2.7-18.3)
Micronesia (Federated States of)	Non-Hodgkin lymphoma	Female	5.2 (0.9-10.8)	7.8 (2.2-15.3)
Micronesia (Federated States of)	Non-Hodgkin lymphoma	Male	5.4 (1.8-10.6)	8.4 (2.4-16.7)
Monaco	Leukemia	Female	11.4 (4.4-20.5)	8.1 (2.3-16.1)
Monaco	Leukemia	Male	6.8 (2.9-11.7)	4.3 (1.1-9.4)
Monaco	Multiple myeloma	Female	8.5 (2.8-16.4)	3 (0.7-7.1)
Monaco	Multiple myeloma	Male	7.2 (1.9-14.8)	1.8 (0.4-4.6)
Monaco	Non-Hodgkin lymphoma	Female	6.3 (1.1-13.2)	2.3 (0.6-5.4)
Monaco	Non-Hodgkin lymphoma	Male	7.3 (2.6-14.6)	7.2 (2.1-14.5)
Mongolia	Leukemia	Female	4.9 (1.7-9.5)	1.8 (0.4-4.8)
Mongolia	Leukemia	Male	2.1 (0.8-4.3)	2.2 (0.5-5.4)
Mongolia	Multiple myeloma	Female	6.2 (1.8-12.7)	3.8 (1-8.8)
Mongolia	Multiple myeloma	Male	4.4 (1.2-9.7)	6.7 (1.9-13.9)
Mongolia	Non-Hodgkin lymphoma	Female	3.6 (0.6-7.9)	5.4 (1.6-11.3)
Mongolia	Non-Hodgkin lymphoma	Male	3.8 (1.3-7.9)	10.3 (3.1-19.4)
Montenegro	Leukemia	Female	11.3 (4.6-19.9)	9.5 (2.7-18.3)
Montenegro	Leukemia	Male	7.1 (3.4-11.5)	6.9 (2.1-14)
Montenegro	Multiple myeloma	Female	10.3 (3.5-19.3)	10.3 (2.9-19.7)
Montenegro	Multiple myeloma	Male	9 (2.5-17.4)	5.1 (1.5-10.7)
Montenegro	Non-Hodgkin lymphoma	Female	6.9 (1.3-13.7)	3.3 (0.9-7.2)
Montenegro	Non-Hodgkin lymphoma	Male	8 (3-14.7)	6.2 (1.8-12.9)
Morocco	Leukemia	Female	6.2 (2.3-11.9)	8 (2.2-15.7)
Morocco	Leukemia	Male	3.2 (1.3-5.8)	6.5 (1.8-13.6)
Morocco	Multiple myeloma	Female	6.5 (2-12.9)	9.8 (2.8-18.6)
Morocco	Multiple myeloma	Male	4.6 (1.2-9.9)	7.1 (2-14.5)
Morocco	Non-Hodgkin lymphoma	Female	4 (0.7-8.7)	2.1 (0.5-4.8)
Morocco	Non-Hodgkin lymphoma	Male	4.1 (1.4-8.5)	9.2 (2.9-17.6)
Mozambique	Leukemia	Female	0.7 (0.1-2)	2.5 (0.6-5.9)
Mozambique	Leukemia	Male	0.4 (0.1-1.1)	8.6 (2.6-16.3)
Mozambique	Multiple myeloma	Female	1.6 (0.3-4.3)	6.4 (1.8-13.3)
Mozambique	Multiple myeloma	Male	1.1 (0.1-3.6)	6.9 (2-14.1)
Mozambique	Non-Hodgkin lymphoma	Female	1.1 (0.1-3.2)	7.6 (2.2-15.5)
Mozambique	Non-Hodgkin lymphoma	Male	1 (0.2-3)	7.5 (2.1-15.1)
Myanmar	Leukemia	Female	1.1 (0.2-3.3)	6.7 (1.9-14)
Myanmar	Leukemia	Male	0.5 (0.1-1.5)	8.5 (2.4-16.8)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Myanmar	Multiple myeloma	Female	1.4 (0.2-3.9)	9.2 (2.5-17.9)
Myanmar	Multiple myeloma	Male	0.9 (0.1-3)	5.1 (1.4-11.1)
Myanmar	Non-Hodgkin lymphoma	Female	0.9 (0.1-2.8)	3.1 (0.7-7.2)
Myanmar	Non-Hodgkin lymphoma	Male	0.8 (0.1-2.5)	6.5 (1.8-13.4)
Namibia	Leukemia	Female	6.1 (2.3-11.2)	5.9 (1.6-12.5)
Namibia	Leukemia	Male	2.1 (0.8-4)	10 (3.1-18.9)
Namibia	Multiple myeloma	Female	5.7 (1.9-11.1)	3.3 (0.9-6.9)
Namibia	Multiple myeloma	Male	3 (0.8-6.5)	3.4 (1-7.3)
Namibia	Non-Hodgkin lymphoma	Female	3.9 (0.7-8.2)	9.3 (2.7-17.8)
Namibia	Non-Hodgkin lymphoma	Male	2.7 (0.9-5.5)	7.5 (2.2-15.3)
Nauru	Leukemia	Female	7.5 (2.9-13.7)	6.3 (1.8-13.3)
Nauru	Leukemia	Male	4.8 (2.1-8.2)	7.1 (2.1-14.1)
Nauru	Multiple myeloma	Female	8.9 (3-16.7)	12 (3.6-22)
Nauru	Multiple myeloma	Male	7.4 (2.1-15.1)	9 (2.6-17.3)
Nauru	Non-Hodgkin lymphoma	Female	5.4 (1-10.9)	6.7 (1.9-13.9)
Nauru	Non-Hodgkin lymphoma	Male	6.5 (2.3-12.5)	12.4 (3.7-22.6)
Nepal	Leukemia	Female	0.9 (0.1-2.6)	3.3 (0.9-7)
Nepal	Leukemia	Male	0.5 (0.1-1.4)	8.8 (2.5-17.2)
Nepal	Multiple myeloma	Female	1.2 (0.2-3.1)	4.8 (1.4-9.9)
Nepal	Multiple myeloma	Male	0.9 (0.2-2.8)	6.1 (1.7-12.3)
Nepal	Non-Hodgkin lymphoma	Female	0.5 (0.1-1.5)	9 (2.5-17.5)
Nepal	Non-Hodgkin lymphoma	Male	0.7 (0.1-2)	6.7 (1.9-13.7)
Netherlands	Leukemia	Female	8.5 (3.1-16.2)	3.7 (0.9-8.2)
Netherlands	Leukemia	Male	4.3 (1.7-8)	5.9 (1.7-11.6)
Netherlands	Multiple myeloma	Female	6.6 (2-13.2)	3.4 (0.9-7.5)
Netherlands	Multiple myeloma	Male	4.8 (1.3-10.7)	5.8 (1.6-12.4)
Netherlands	Non-Hodgkin lymphoma	Female	4.8 (0.8-10.4)	6.8 (2.1-13.6)
Netherlands	Non-Hodgkin lymphoma	Male	4.8 (1.6-10)	5.7 (1.7-11.7)
New Zealand	Leukemia	Female	8.8 (3.3-16.3)	7.9 (2.3-15.6)
New Zealand	Leukemia	Male	5.4 (2.3-9.5)	8.3 (2.4-16.8)
New Zealand	Multiple myeloma	Female	6.8 (2.1-13.1)	10.6 (3.2-20.1)
New Zealand	Multiple myeloma	Male	6.2 (1.8-13.1)	7.6 (2.2-15.3)
New Zealand	Non-Hodgkin lymphoma	Female	5 (0.9-10.6)	2.6 (0.7-6.1)
New Zealand	Non-Hodgkin lymphoma	Male	6.2 (2.1-12.3)	5.1 (1.5-10.3)
Nicaragua	Leukemia	Female	3 (0.9-6.2)	3 (0.8-6.8)
Nicaragua	Leukemia	Male	1.4 (0.4-3)	6.2 (1.7-13)
Nicaragua	Multiple myeloma	Female	6 (1.8-12)	6.5 (1.8-13.5)
Nicaragua	Multiple myeloma	Male	3.6 (0.8-8.5)	2.4 (0.6-5.8)
Nicaragua	Non-Hodgkin lymphoma	Female	3 (0.5-6.8)	8.9 (2.5-17.4)
Nicaragua	Non-Hodgkin lymphoma	Male	2.3 (0.6-5.2)	9.4 (2.8-18.2)
Niger	Leukemia	Female	1.8 (0.5-4.2)	5.6 (1.6-12)
Niger	Leukemia	Male	0.5 (0.1-1.5)	10.7 (3.2-20)
Niger	Multiple myeloma	Female	3 (0.8-6.6)	9.7 (2.9-18.5)
Niger	Multiple myeloma	Male	1.5 (0.3-4)	7.1 (2-14.4)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Niger	Non-Hodgkin lymphoma	Female	1.3 (0.2-3.5)	3.4 (0.7-8.2)
Niger	Non-Hodgkin lymphoma	Male	0.8 (0.2-2.3)	7.4 (2.1-14.9)
Nigeria	Leukemia	Female	3.1 (0.9-7)	3.8 (1.1-8.1)
Nigeria	Leukemia	Male	1.4 (0.4-3.2)	9.9 (2.9-18.7)
Nigeria	Multiple myeloma	Female	3.2 (0.8-7.2)	9.7 (2.9-18.5)
Nigeria	Multiple myeloma	Male	2.6 (0.6-6.2)	14.3 (4.5-25.4)
Nigeria	Non-Hodgkin lymphoma	Female	1.8 (0.3-4.4)	8.3 (2.4-16.4)
Nigeria	Non-Hodgkin lymphoma	Male	1.6 (0.4-4.2)	9.4 (3-18)
Niue	Leukemia	Female	8.9 (3.3-16.5)	2.7 (0.6-6.6)
Niue	Leukemia	Male	5 (2.2-8.7)	7.7 (2.2-15.5)
Niue	Multiple myeloma	Female	7.7 (2.4-14.9)	6.7 (1.9-13.9)
Niue	Multiple myeloma	Male	6.4 (1.7-13.1)	8.6 (2.4-16.7)
Niue	Non-Hodgkin lymphoma	Female	5.2 (0.9-10.7)	6.3 (1.8-12.7)
Niue	Non-Hodgkin lymphoma	Male	6.2 (2.1-12)	12.2 (3.8-22.1)
North Macedonia	Leukemia	Female	9.3 (3.5-17.1)	10 (2.9-18.8)
North Macedonia	Leukemia	Male	5.2 (2.3-9)	5.5 (1.6-11.3)
North Macedonia	Multiple myeloma	Female	8.9 (2.9-16.8)	4.7 (1.3-10.1)
North Macedonia	Multiple myeloma	Male	6.8 (1.9-14)	9.5 (2.7-18.3)
North Macedonia	Non-Hodgkin lymphoma	Female	5.7 (1-11.8)	5.4 (1.4-11.8)
North Macedonia	Non-Hodgkin lymphoma	Male	6 (2.2-11.6)	1.1 (0.1-3.4)
Northern Mariana Islands	Leukemia	Female	13 (5.5-22.2)	4.1 (1.2-8.7)
Northern Mariana Islands	Leukemia	Male	9.1 (4.5-14.3)	7.3 (2.1-14.7)
Northern Mariana Islands	Multiple myeloma	Female	11.9 (4.2-21.3)	6.9 (2-14)
Northern Mariana Islands	Multiple myeloma	Male	10.9 (3.3-20.1)	6.8 (1.9-14)
Northern Mariana Islands	Non-Hodgkin lymphoma	Female	8.1 (1.4-15.7)	6.1 (1.7-12.8)
Northern Mariana Islands	Non-Hodgkin lymphoma	Male	10.6 (4.2-18.6)	8.3 (2.4-16.2)
Norway	Leukemia	Female	6.9 (2.5-13.1)	3.4 (0.8-7.7)
Norway	Leukemia	Male	4.2 (1.7-7.6)	4.5 (1.3-9.4)
Norway	Multiple myeloma	Female	5.3 (1.6-10.5)	3.6 (1-7.9)
Norway	Multiple myeloma	Male	4.5 (1.3-10)	7.2 (2-14.6)
Norway	Non-Hodgkin lymphoma	Female	3.9 (0.7-8.5)	8.3 (2.4-16.7)
Norway	Non-Hodgkin lymphoma	Male	4.6 (1.6-9.3)	8.1 (2.3-16.2)
Oman	Leukemia	Female	5.1 (1.9-10)	9.1 (2.7-17.6)
Oman	Leukemia	Male	2.5 (1-4.7)	6 (1.7-12.7)
Oman	Multiple myeloma	Female	5.8 (1.7-11.6)	8.2 (2.5-16)
Oman	Multiple myeloma	Male	3.8 (1-8.1)	14.4 (4.5-25.5)
Oman	Non-Hodgkin lymphoma	Female	4.1 (0.7-8.6)	4 (1.2-8.6)
Oman	Non-Hodgkin lymphoma	Male	3.6 (1.2-7.3)	9.5 (2.7-18.2)
Pakistan	Leukemia	Female	1.6 (0.3-4.5)	6.7 (1.9-13.7)
Pakistan	Leukemia	Male	1.1 (0.2-2.9)	7.5 (2.1-14.9)
Pakistan	Multiple myeloma	Female	2.5 (0.5-6.2)	7 (2-14.2)
Pakistan	Multiple myeloma	Male	1.9 (0.3-5.4)	2.3 (0.6-5.4)
Pakistan	Non-Hodgkin lymphoma	Female	1.5 (0.2-4.2)	4.1 (1.1-8.8)
Pakistan	Non-Hodgkin lymphoma	Male	1.5 (0.3-4.1)	2.9 (0.8-6.6)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Palau	Leukemia	Female	11.1 (4.3-19.9)	7.2 (3.1-12.8)
Palau	Leukemia	Male	6.1 (2.8-10.2)	7.5 (3.3-12.9)
Palau	Multiple myeloma	Female	8.9 (3-16.7)	7.2 (3-13)
Palau	Multiple myeloma	Male	7.5 (2.1-15)	2.6 (1-5.2)
Palau	Non-Hodgkin lymphoma	Female	6.4 (1.2-12.9)	6.5 (2.6-11.6)
Palau	Non-Hodgkin lymphoma	Male	7.1 (2.6-13.6)	7.8 (3.5-13.3)
Palestine	Leukemia	Female	6.4 (2.5-12.3)	6.4 (2.6-11.6)
Palestine	Leukemia	Male	2.8 (1-5.6)	7.7 (3.3-13.3)
Palestine	Multiple myeloma	Female	7.6 (2.4-14.5)	10.2 (4.7-16.9)
Palestine	Multiple myeloma	Male	4.5 (1.2-10.3)	2 (0.7-4.1)
Palestine	Non-Hodgkin lymphoma	Female	4.7 (0.9-10)	7.7 (3.4-13.3)
Palestine	Non-Hodgkin lymphoma	Male	3.9 (1.2-8.3)	6 (2.4-10.9)
Panama	Leukemia	Female	3.6 (1-7.9)	4.2 (1.8-7.6)
Panama	Leukemia	Male	1.8 (0.4-4.1)	9.1 (4.1-15.5)
Panama	Multiple myeloma	Female	4.3 (1-9.4)	6.9 (3.1-12.1)
Panama	Multiple myeloma	Male	2.8 (0.5-7.3)	7.6 (3.3-13.2)
Panama	Non-Hodgkin lymphoma	Female	2.9 (0.4-6.9)	7.2 (3.2-12.5)
Panama	Non-Hodgkin lymphoma	Male	2.5 (0.5-6.3)	3.7 (1.4-7.3)
Papua New Guinea	Leukemia	Female	2.7 (0.7-6.2)	2.7 (0.9-5.5)
Papua New Guinea	Leukemia	Male	1.6 (0.4-3.7)	1.5 (0.5-3.4)
Papua New Guinea	Multiple myeloma	Female	4.1 (1-9.1)	2.1 (0.7-4.4)
Papua New Guinea	Multiple myeloma	Male	2.7 (0.5-7)	5.2 (2.2-9.1)
Papua New Guinea	Non-Hodgkin lymphoma	Female	2.5 (0.4-6.3)	1.5 (0.4-3.4)
Papua New Guinea	Non-Hodgkin lymphoma	Male	2.2 (0.5-5.5)	1.7 (0.6-3.5)
Paraguay	Leukemia	Female	4.6 (1.5-9.1)	3.6 (1.2-7.3)
Paraguay	Leukemia	Male	2.7 (1.1-5)	6.3 (2.6-11.2)
Paraguay	Multiple myeloma	Female	6.3 (1.8-12.6)	4.9 (2.2-8.9)
Paraguay	Multiple myeloma	Male	5.1 (1.4-11)	9.4 (4.3-15.7)
Paraguay	Non-Hodgkin lymphoma	Female	3.8 (0.7-8.2)	8.6 (3.8-14.5)
Paraguay	Non-Hodgkin lymphoma	Male	4.2 (1.4-8.6)	7 (3-12.4)
Peru	Leukemia	Female	4.1 (1.3-8.5)	9.3 (4.2-15.7)
Peru	Leukemia	Male	2.3 (0.9-4.6)	4.1 (1.7-7.4)
Peru	Multiple myeloma	Female	5.9 (1.7-11.9)	2.4 (0.9-4.7)
Peru	Multiple myeloma	Male	4.7 (1.2-10.3)	5.8 (2.4-10.6)
Peru	Non-Hodgkin lymphoma	Female	3.7 (0.6-8.2)	7.7 (3.3-13.2)
Peru	Non-Hodgkin lymphoma	Male	3.9 (1.3-8.4)	5.8 (2.4-10.6)
Philippines	Leukemia	Female	2.1 (0.6-4.7)	9 (4.1-15.1)
Philippines	Leukemia	Male	1.2 (0.4-2.6)	6.6 (2.7-11.7)
Philippines	Multiple myeloma	Female	2.8 (0.7-6)	2 (0.7-3.9)
Philippines	Multiple myeloma	Male	2.3 (0.6-5.4)	8.7 (3.9-14.9)
Philippines	Non-Hodgkin lymphoma	Female	1.7 (0.3-4.1)	2.4 (0.9-4.9)
Philippines	Non-Hodgkin lymphoma	Male	1.9 (0.6-4.3)	7.6 (3.4-12.8)
Poland	Leukemia	Female	10.7 (4.1-19.2)	6 (2.4-10.7)
Poland	Leukemia	Male	6 (2.8-10)	6.5 (2.8-11.4)

<b>Countries</b>	<b>Causes</b>	<b>Sex</b>	<b>Percent change in 1990 (95% UI)</b>	<b>Percent change in 2019 (95% UI)</b>
<b>Poland</b>	<b>Multiple myeloma</b>	Female	9.2 (3.1-17.3)	7.2 (3-12.6)
<b>Poland</b>	<b>Multiple myeloma</b>	Male	7.4 (2.1-14.7)	6.9 (2.9-12.5)
<b>Poland</b>	<b>Non-Hodgkin lymphoma</b>	Female	6.3 (1.1-12.8)	6.5 (2.6-11.8)
<b>Poland</b>	<b>Non-Hodgkin lymphoma</b>	Male	6.8 (2.5-13)	8.1 (3.5-14)
<b>Portugal</b>	<b>Leukemia</b>	Female	7 (2.4-13.8)	8.6 (3.8-14.8)
<b>Portugal</b>	<b>Leukemia</b>	Male	3.8 (1.4-7.3)	4.5 (1.7-8.4)
<b>Portugal</b>	<b>Multiple myeloma</b>	Female	5.9 (1.7-12)	2.8 (1-5.5)
<b>Portugal</b>	<b>Multiple myeloma</b>	Male	4.6 (1.2-10.3)	6.2 (2.6-11)
<b>Portugal</b>	<b>Non-Hodgkin lymphoma</b>	Female	4.2 (0.7-9.3)	5.5 (2.2-10.4)
<b>Portugal</b>	<b>Non-Hodgkin lymphoma</b>	Male	4.4 (1.4-9.3)	8.8 (4.1-14.8)
<b>Puerto Rico</b>	<b>Leukemia</b>	Female	10.8 (4.2-19.3)	3.1 (1.3-5.6)
<b>Puerto Rico</b>	<b>Leukemia</b>	Male	6.3 (2.7-10.6)	3.5 (1.4-6.6)
<b>Puerto Rico</b>	<b>Multiple myeloma</b>	Female	9.1 (3.1-16.9)	7.8 (3.4-13.2)
<b>Puerto Rico</b>	<b>Multiple myeloma</b>	Male	7.3 (2-14.7)	6.9 (2.8-12.6)
<b>Puerto Rico</b>	<b>Non-Hodgkin lymphoma</b>	Female	6.6 (1.2-13.4)	5.9 (2.4-10.8)
<b>Puerto Rico</b>	<b>Non-Hodgkin lymphoma</b>	Male	7.5 (2.7-14.4)	7.5 (3.3-12.8)
<b>Qatar</b>	<b>Leukemia</b>	Female	10.9 (4.7-18.6)	10.5 (5-17.1)
<b>Qatar</b>	<b>Leukemia</b>	Male	7.1 (3.4-11.5)	8.2 (3.7-14.1)
<b>Qatar</b>	<b>Multiple myeloma</b>	Female	12.4 (4.5-22.4)	5.8 (2.3-10.5)
<b>Qatar</b>	<b>Multiple myeloma</b>	Male	9.7 (2.8-18.6)	11.5 (5.4-18.4)
<b>Qatar</b>	<b>Non-Hodgkin lymphoma</b>	Female	8.2 (1.5-16)	2.9 (1.1-5.5)
<b>Qatar</b>	<b>Non-Hodgkin lymphoma</b>	Male	8.5 (3.2-15.5)	8.5 (3.6-14.9)
<b>Republic of Korea</b>	<b>Leukemia</b>	Female	3.1 (0.7-7.3)	5.3 (2.2-9.5)
<b>Republic of Korea</b>	<b>Leukemia</b>	Male	1.7 (0.4-3.8)	5.2 (2.2-9)
<b>Republic of Korea</b>	<b>Multiple myeloma</b>	Female	3.5 (0.8-8)	8.4 (3.6-14.6)
<b>Republic of Korea</b>	<b>Multiple myeloma</b>	Male	2.5 (0.4-6.7)	6.2 (2.6-10.9)
<b>Republic of Korea</b>	<b>Non-Hodgkin lymphoma</b>	Female	2.3 (0.3-5.7)	3 (1.1-6)
<b>Republic of Korea</b>	<b>Non-Hodgkin lymphoma</b>	Male	2.2 (0.5-5.7)	5.4 (2.4-9.3)
<b>Republic of Moldova</b>	<b>Leukemia</b>	Female	7.7 (3-14)	2.5 (0.9-4.9)
<b>Republic of Moldova</b>	<b>Leukemia</b>	Male	3 (1.2-5.5)	5.7 (2.3-10.4)
<b>Republic of Moldova</b>	<b>Multiple myeloma</b>	Female	8.7 (2.9-16.7)	6 (2.6-10.4)
<b>Republic of Moldova</b>	<b>Multiple myeloma</b>	Male	5.2 (1.4-11.2)	5.5 (2.3-9.8)
<b>Republic of Moldova</b>	<b>Non-Hodgkin lymphoma</b>	Female	5.5 (0.9-11.2)	7.2 (3.1-12.3)
<b>Republic of Moldova</b>	<b>Non-Hodgkin lymphoma</b>	Male	4 (1.4-8.1)	7.8 (3.2-13.9)
<b>Romania</b>	<b>Leukemia</b>	Female	8.9 (3.5-16)	9.3 (4.3-15.5)
<b>Romania</b>	<b>Leukemia</b>	Male	5 (2.4-8.4)	7.3 (3.1-12.7)
<b>Romania</b>	<b>Multiple myeloma</b>	Female	8.5 (2.9-15.9)	2.7 (0.9-5.4)
<b>Romania</b>	<b>Multiple myeloma</b>	Male	6.9 (2.1-13.7)	5 (2.3-8.6)
<b>Romania</b>	<b>Non-Hodgkin lymphoma</b>	Female	5.4 (1-10.9)	2.7 (0.9-5.4)
<b>Romania</b>	<b>Non-Hodgkin lymphoma</b>	Male	5.7 (2.1-10.9)	5.9 (2.3-10.8)
<b>Russian Federation</b>	<b>Leukemia</b>	Female	11.2 (4.4-19.6)	5.8 (2.4-10.4)
<b>Russian Federation</b>	<b>Leukemia</b>	Male	4.4 (2-7.7)	1.7 (0.6-3.6)
<b>Russian Federation</b>	<b>Multiple myeloma</b>	Female	9.8 (3.3-18.2)	7.8 (3.5-13.2)
<b>Russian Federation</b>	<b>Multiple myeloma</b>	Male	5.7 (1.7-11.9)	8.4 (3.8-14.3)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Russian Federation	Non-Hodgkin lymphoma	Female	6.5 (1.1-13.3)	5.3 (2.1-9.8)
Russian Federation	Non-Hodgkin lymphoma	Male	5 (1.8-9.5)	9.8 (4.6-16.4)
Rwanda	Leukemia	Female	1.4 (0.3-3.3)	9.2 (4.2-15.3)
Rwanda	Leukemia	Male	0.6 (0.1-1.4)	6.4 (2.8-11.3)
Rwanda	Multiple myeloma	Female	2.5 (0.5-6.1)	2.9 (0.9-6.2)
Rwanda	Multiple myeloma	Male	1.4 (0.2-4.2)	6.5 (2.8-11.6)
Rwanda	Non-Hodgkin lymphoma	Female	1.5 (0.2-4)	3.4 (1.4-6.1)
Rwanda	Non-Hodgkin lymphoma	Male	1.1 (0.2-3)	9 (4-15.2)
Saint Kitts and Nevis	Leukemia	Female	8.1 (3.1-14.8)	9.3 (4.1-15.4)
Saint Kitts and Nevis	Leukemia	Male	4 (1.6-7.3)	12.8 (6.4-20.2)
Saint Kitts and Nevis	Multiple myeloma	Female	7.1 (2.2-13.9)	7.9 (3.5-13.5)
Saint Kitts and Nevis	Multiple myeloma	Male	5 (1.4-10.9)	8.4 (3.9-13.9)
Saint Kitts and Nevis	Non-Hodgkin lymphoma	Female	5 (0.9-10.5)	2.7 (0.9-5.5)
Saint Kitts and Nevis	Non-Hodgkin lymphoma	Male	4.9 (1.7-10.1)	7.5 (3.2-13)
Saint Lucia	Leukemia	Female	6.6 (2.3-12.6)	6.7 (2.8-11.8)
Saint Lucia	Leukemia	Male	2.9 (1-5.6)	7.3 (3.1-12.5)
Saint Lucia	Multiple myeloma	Female	6.4 (2-12.9)	5.4 (2.3-9.7)
Saint Lucia	Multiple myeloma	Male	4.1 (1.1-9.6)	11.2 (5.4-18.2)
Saint Lucia	Non-Hodgkin lymphoma	Female	4.4 (0.8-9.4)	8.9 (4-15.1)
Saint Lucia	Non-Hodgkin lymphoma	Male	3.8 (1.2-8)	5.5 (2.3-9.8)
Saint Vincent and the Grenadines	Leukemia	Female	4.8 (1.6-9.8)	4.3 (1.7-8)
Saint Vincent and the Grenadines	Leukemia	Male	2.3 (0.8-4.7)	8.7 (3.9-14.9)
Saint Vincent and the Grenadines	Multiple myeloma	Female	5.2 (1.5-10.9)	4.5 (1.7-8.5)
Saint Vincent and the Grenadines	Multiple myeloma	Male	3.5 (0.8-8.4)	0.9 (0.2-2.4)
Saint Vincent and the Grenadines	Non-Hodgkin lymphoma	Female	3.4 (0.6-7.5)	3.4 (1.3-6.4)
Saint Vincent and the Grenadines	Non-Hodgkin lymphoma	Male	3.1 (0.9-7)	7 (2.9-12.4)
Samoa	Leukemia	Female	9.8 (3.8-17.4)	5.8 (2.5-10.4)
Samoa	Leukemia	Male	5.8 (2.6-9.5)	6.6 (2.7-11.7)
Samoa	Multiple myeloma	Female	8.8 (2.9-16.8)	5.7 (2.3-10.3)
Samoa	Multiple myeloma	Male	8.4 (2.4-16.4)	7.7 (3.3-13.1)
Samoa	Non-Hodgkin lymphoma	Female	5.9 (1.1-12.1)	3.1 (1.1-6)
Samoa	Non-Hodgkin lymphoma	Male	7.5 (2.8-13.7)	4.5 (1.8-8.3)
San Marino	Leukemia	Female	10.2 (3.8-18.7)	3.5 (1.4-6.5)
San Marino	Leukemia	Male	6.2 (2.6-10.6)	6.5 (2.6-11.6)
San Marino	Multiple myeloma	Female	7.8 (2.5-15.2)	8.3 (3.7-14.1)
San Marino	Multiple myeloma	Male	6.8 (1.9-14)	8.1 (3.4-13.9)
San Marino	Non-Hodgkin lymphoma	Female	5.8 (1-12.2)	8.1 (3.6-13.9)
San Marino	Non-Hodgkin lymphoma	Male	6.7 (2.3-13.4)	5.7 (2.3-10.3)
Sao Tome and Principe	Leukemia	Female	4.8 (1.6-9.7)	7.8 (3.5-13.4)
Sao Tome and Principe	Leukemia	Male	1.5 (0.4-3.5)	13.5 (6.4-21.8)
Sao Tome and Principe	Multiple myeloma	Female	5.2 (1.4-10.7)	3.4 (1.3-6.4)
Sao Tome and Principe	Multiple myeloma	Male	3 (0.6-7.5)	8.8 (3.9-14.8)
Sao Tome and Principe	Non-Hodgkin lymphoma	Female	3.1 (0.5-7.1)	6.5 (2.6-11.6)
Sao Tome and Principe	Non-Hodgkin lymphoma	Male	1.9 (0.5-4.7)	6.4 (2.8-11.4)



Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Saudi Arabia	Leukemia	Female	7.8 (3-14.4)	6.4 (2.7-11.5)
Saudi Arabia	Leukemia	Male	4.5 (2-7.8)	2.2 (0.7-4.5)
Saudi Arabia	Multiple myeloma	Female	8.7 (2.8-16.4)	3.5 (1.4-6.6)
Saudi Arabia	Multiple myeloma	Male	6 (1.7-12.4)	3.6 (1.4-6.8)
Saudi Arabia	Non-Hodgkin lymphoma	Female	5.4 (1-11.1)	6.8 (1.2-13.8)
Saudi Arabia	Non-Hodgkin lymphoma	Male	5.5 (2-10.7)	7.5 (1.3-14.8)
Senegal	Leukemia	Female	3.7 (1.3-7.3)	6.2 (1.1-12.8)
Senegal	Leukemia	Male	1.2 (0.3-2.6)	2.7 (0.4-5.8)
Senegal	Multiple myeloma	Female	4.4 (1.3-9.3)	6.1 (1.1-12.6)
Senegal	Multiple myeloma	Male	2.4 (0.6-5.9)	7.6 (1.3-15.3)
Senegal	Non-Hodgkin lymphoma	Female	2.6 (0.4-5.6)	5.9 (1.1-12.3)
Senegal	Non-Hodgkin lymphoma	Male	1.7 (0.4-3.9)	7.6 (1.4-15.3)
Serbia	Leukemia	Female	10.8 (4.2-19.4)	9.5 (1.7-18.6)
Serbia	Leukemia	Male	6.4 (2.8-10.6)	1.8 (0.3-4.2)
Serbia	Multiple myeloma	Female	9.2 (3.2-17.4)	7.6 (1.4-15.4)
Serbia	Multiple myeloma	Male	7.9 (2.2-15.7)	5.6 (1-11.6)
Serbia	Non-Hodgkin lymphoma	Female	6.3 (1.1-12.9)	4.7 (0.8-9.5)
Serbia	Non-Hodgkin lymphoma	Male	7.2 (2.6-13.7)	8.3 (1.5-16.3)
Seychelles	Leukemia	Female	6.6 (2.5-12.7)	6.7 (1.2-13.6)
Seychelles	Leukemia	Male	2.5 (0.8-5.2)	7 (1.3-14)
Seychelles	Multiple myeloma	Female	5.7 (1.7-11.2)	6.6 (1.2-13.3)
Seychelles	Multiple myeloma	Male	3 (0.7-7.2)	3.2 (0.5-7.2)
Seychelles	Non-Hodgkin lymphoma	Female	4.1 (0.7-8.7)	3.6 (0.6-7.8)
Seychelles	Non-Hodgkin lymphoma	Male	3.1 (0.9-6.8)	1.6 (0.3-3.9)
Sierra Leone	Leukemia	Female	2.2 (0.5-5.4)	2.1 (0.3-4.9)
Sierra Leone	Leukemia	Male	0.7 (0.1-1.9)	5.5 (1-11.2)
Sierra Leone	Multiple myeloma	Female	3 (0.7-6.9)	1.8 (0.3-4.1)
Sierra Leone	Multiple myeloma	Male	1.6 (0.2-4.5)	2.1 (0.3-4.8)
Sierra Leone	Non-Hodgkin lymphoma	Female	1.6 (0.2-4.2)	3.2 (0.5-7.5)
Sierra Leone	Non-Hodgkin lymphoma	Male	1.1 (0.2-3.1)	6.1 (1.1-12.7)
Singapore	Leukemia	Female	3.3 (0.7-7.7)	5 (0.9-10.1)
Singapore	Leukemia	Male	2 (0.5-4.4)	8 (1.4-15.8)
Singapore	Multiple myeloma	Female	3 (0.6-7.2)	7.5 (1.3-15.2)
Singapore	Multiple myeloma	Male	2.5 (0.5-6.6)	7.1 (1.3-14.5)
Singapore	Non-Hodgkin lymphoma	Female	2.1 (0.3-5.3)	8.1 (1.4-16.5)
Singapore	Non-Hodgkin lymphoma	Male	2.5 (0.6-6.1)	4.3 (0.7-9.2)
Slovakia	Leukemia	Female	11.2 (4.5-19.6)	2.1 (0.3-4.9)
Slovakia	Leukemia	Male	6.2 (2.9-10.4)	5.3 (0.9-11)
Slovakia	Multiple myeloma	Female	9.3 (3.1-17.3)	7.4 (1.3-15)
Slovakia	Multiple myeloma	Male	7.3 (2-14.6)	5.3 (0.9-11)
Slovakia	Non-Hodgkin lymphoma	Female	6.5 (1.2-13.1)	9.1 (1.6-17.4)
Slovakia	Non-Hodgkin lymphoma	Male	7 (2.5-13.3)	6.4 (1.1-13.1)
Slovenia	Leukemia	Female	11.1 (4.3-19.9)	2.4 (0.4-5.2)
Slovenia	Leukemia	Male	6.9 (3.2-11.3)	8.4 (1.5-16.7)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Slovenia	Multiple myeloma	Female	8.7 (3-16.5)	2.3 (0.4-5.2)
Slovenia	Multiple myeloma	Male	7.8 (2.3-15.5)	6.9 (1.2-13.5)
Slovenia	Non-Hodgkin lymphoma	Female	6.3 (1.1-12.9)	5.4 (1-11)
Slovenia	Non-Hodgkin lymphoma	Male	7.4 (2.8-14.1)	6.8 (1.2-13.6)
Solomon Islands	Leukemia	Female	5 (1.6-10.3)	6.8 (1.2-13.7)
Solomon Islands	Leukemia	Male	2.5 (0.7-5.2)	6.3 (1.1-13.1)
Solomon Islands	Multiple myeloma	Female	5.2 (1.3-11.1)	6 (1.1-12.7)
Solomon Islands	Multiple myeloma	Male	3.6 (0.8-8.6)	7.1 (1.3-14.4)
Solomon Islands	Non-Hodgkin lymphoma	Female	3.1 (0.5-6.8)	7.2 (1.3-14.7)
Solomon Islands	Non-Hodgkin lymphoma	Male	3 (0.8-6.8)	4.5 (0.8-9.6)
Somalia	Leukemia	Female	0.8 (0.1-2.2)	3.2 (0.5-7.1)
Somalia	Leukemia	Male	0.4 (0.1-1.1)	6.2 (1.1-12.6)
Somalia	Multiple myeloma	Female	1.6 (0.3-4.3)	5.5 (0.9-11.5)
Somalia	Multiple myeloma	Male	1 (0.1-3.3)	7.8 (1.4-15.5)
Somalia	Non-Hodgkin lymphoma	Female	1 (0.1-2.9)	2.9 (0.5-6.3)
Somalia	Non-Hodgkin lymphoma	Male	0.8 (0.1-2.5)	3.7 (0.6-7.8)
South Africa	Leukemia	Female	10.9 (4.4-19.1)	6.9 (1.2-13.9)
South Africa	Leukemia	Male	3.6 (1.6-6.3)	6.1 (1.1-12.9)
South Africa	Multiple myeloma	Female	10.7 (3.7-19.7)	5.5 (1-11.5)
South Africa	Multiple myeloma	Male	5.3 (1.5-10.9)	7.7 (1.4-15.4)
South Africa	Non-Hodgkin lymphoma	Female	6.8 (1.3-13.7)	9.6 (1.8-18.8)
South Africa	Non-Hodgkin lymphoma	Male	4.6 (1.7-8.9)	8.2 (1.4-16.3)
South Sudan	Leukemia	Female	1.3 (0.3-3.2)	5.1 (0.9-10.7)
South Sudan	Leukemia	Male	0.8 (0.2-2)	10.8 (2-20.5)
South Sudan	Multiple myeloma	Female	3.8 (1.1-8.1)	2.8 (0.5-6.1)
South Sudan	Multiple myeloma	Male	2.4 (0.6-5.8)	8.5 (1.5-17)
South Sudan	Non-Hodgkin lymphoma	Female	2.1 (0.3-5)	7.2 (1.3-14.4)
South Sudan	Non-Hodgkin lymphoma	Male	1.9 (0.5-4.4)	5.3 (0.9-10.8)
Spain	Leukemia	Female	9.4 (3.5-17.1)	8.1 (1.4-16.5)
Spain	Leukemia	Male	5.1 (2.1-9)	5.6 (0.9-11.5)
Spain	Multiple myeloma	Female	7.7 (2.5-14.7)	2.9 (0.4-6.5)
Spain	Multiple myeloma	Male	6 (1.6-12.6)	4.9 (0.9-9.9)
Spain	Non-Hodgkin lymphoma	Female	5.6 (1-11.5)	3.1 (0.5-6.8)
Spain	Non-Hodgkin lymphoma	Male	5.8 (2-11.6)	5.5 (1-11.4)
Sri Lanka	Leukemia	Female	3.2 (1-6.6)	6.1 (1.1-12.1)
Sri Lanka	Leukemia	Male	1.3 (0.4-2.7)	5.5 (1-11.4)
Sri Lanka	Multiple myeloma	Female	3.2 (0.8-6.8)	6.6 (1.2-13.3)
Sri Lanka	Multiple myeloma	Male	1.9 (0.4-4.6)	7.1 (1.2-14.5)
Sri Lanka	Non-Hodgkin lymphoma	Female	2.2 (0.3-5)	8.1 (1.4-15.9)
Sri Lanka	Non-Hodgkin lymphoma	Male	1.8 (0.5-4.1)	7.2 (1.2-14.6)
Sudan	Leukemia	Female	3 (0.9-7.1)	2.9 (0.5-6.4)
Sudan	Leukemia	Male	1.5 (0.5-3.4)	5.7 (1-11.4)
Sudan	Multiple myeloma	Female	4.9 (1.4-10.2)	2.5 (0.4-5.8)
Sudan	Multiple myeloma	Male	2.7 (0.6-6.4)	5.5 (1-11.6)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Sudan	Non-Hodgkin lymphoma	Female	2.8 (0.5-6.4)	6 (1-12.4)
Sudan	Non-Hodgkin lymphoma	Male	2.1 (0.6-4.9)	2.2 (0.4-5.1)
Suriname	Leukemia	Female	6 (2.1-11.7)	6.8 (1.2-13.7)
Suriname	Leukemia	Male	3 (1.1-5.6)	7.4 (1.3-14.9)
Suriname	Multiple myeloma	Female	6.6 (2-13.1)	4.8 (0.8-10.1)
Suriname	Multiple myeloma	Male	4.5 (1.2-10.2)	9.2 (1.7-18.1)
Suriname	Non-Hodgkin lymphoma	Female	4.3 (0.7-9.2)	7.7 (1.4-15.3)
Suriname	Non-Hodgkin lymphoma	Male	4 (1.3-8.5)	6.3 (1.1-12.7)
Sweden	Leukemia	Female	8.1 (2.9-15.7)	3 (0.5-7)
Sweden	Leukemia	Male	4.8 (1.9-8.7)	5.8 (1-12)
Sweden	Multiple myeloma	Female	6.1 (1.8-12.3)	3.2 (0.5-6.8)
Sweden	Multiple myeloma	Male	5.2 (1.4-11.2)	8 (1.4-15.9)
Sweden	Non-Hodgkin lymphoma	Female	4.6 (0.8-9.8)	8.3 (1.5-16.5)
Sweden	Non-Hodgkin lymphoma	Male	5.2 (1.8-10.7)	11.4 (2.1-21.7)
Switzerland	Leukemia	Female	7.9 (3-14.8)	8 (1.5-15.8)
Switzerland	Leukemia	Male	4.9 (2-8.8)	7.4 (1.3-14.6)
Switzerland	Multiple myeloma	Female	6.1 (1.9-12.1)	3.2 (0.5-7.1)
Switzerland	Multiple myeloma	Male	5.6 (1.6-12)	7.1 (1.3-14.3)
Switzerland	Non-Hodgkin lymphoma	Female	4.5 (0.8-9.3)	6.5 (1.1-13.2)
Switzerland	Non-Hodgkin lymphoma	Male	5.6 (2-11.2)	6.3 (1.2-12.8)
Syrian Arab Republic	Leukemia	Female	8.3 (3.1-15.5)	5.4 (0.9-10.9)
Syrian Arab Republic	Leukemia	Male	3.6 (1.5-6.6)	10.6 (2-20.3)
Syrian Arab Republic	Multiple myeloma	Female	8.6 (2.8-16.6)	7.7 (1.4-15.3)
Syrian Arab Republic	Multiple myeloma	Male	5.6 (1.6-11.9)	5.2 (0.9-10.9)
Syrian Arab Republic	Non-Hodgkin lymphoma	Female	5.5 (1-11.4)	3.7 (0.6-8.2)
Syrian Arab Republic	Non-Hodgkin lymphoma	Male	4.8 (1.7-9.7)	8 (1.5-15.8)
Taiwan (Province of China)	Leukemia	Female	4 (1.2-8.4)	4.4 (0.7-9.4)
Taiwan (Province of China)	Leukemia	Male	2.5 (0.8-5)	1.1 (0.2-3)
Taiwan (Province of China)	Multiple myeloma	Female	4.2 (1.1-9)	3.6 (0.7-7.7)
Taiwan (Province of China)	Multiple myeloma	Male	3.3 (0.8-7.8)	6.5 (1.2-13.4)
Taiwan (Province of China)	Non-Hodgkin lymphoma	Female	2.7 (0.5-6.2)	5.7 (1-11.4)
Taiwan (Province of China)	Non-Hodgkin lymphoma	Male	3 (0.9-6.6)	6.5 (1.1-13.2)
Tajikistan	Leukemia	Female	2.5 (0.7-5.3)	5.2 (0.9-10.7)
Tajikistan	Leukemia	Male	1 (0.3-2.3)	7.5 (1.3-14.9)
Tajikistan	Multiple myeloma	Female	4.1 (1.1-8.7)	3.3 (0.6-7.3)
Tajikistan	Multiple myeloma	Male	2.3 (0.5-6)	4.4 (0.8-9.3)
Tajikistan	Non-Hodgkin lymphoma	Female	2.4 (0.4-5.6)	4.2 (0.7-8.6)
Tajikistan	Non-Hodgkin lymphoma	Male	2 (0.5-4.7)	5.9 (1-12.2)
Thailand	Leukemia	Female	2.8 (0.8-6.4)	8.2 (1.5-15.9)
Thailand	Leukemia	Male	1.3 (0.3-2.9)	7.8 (1.4-15.7)
Thailand	Multiple myeloma	Female	2.6 (0.6-6.2)	7.5 (1.3-15.1)
Thailand	Multiple myeloma	Male	1.8 (0.3-4.7)	5 (0.9-10.7)
Thailand	Non-Hodgkin lymphoma	Female	1.9 (0.3-4.6)	8.1 (1.5-16.1)
Thailand	Non-Hodgkin lymphoma	Male	1.8 (0.4-4.3)	10.8 (2-20.8)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Timor-Leste	Leukemia	Female	0.9 (0.1-2.8)	3.5 (0.6-7.3)
Timor-Leste	Leukemia	Male	0.4 (0-1.3)	7.8 (1.4-15.6)
Timor-Leste	Multiple myeloma	Female	1.4 (0.2-3.8)	6.2 (1.1-12.7)
Timor-Leste	Multiple myeloma	Male	0.9 (0.1-2.9)	6.3 (1.1-12.7)
Timor-Leste	Non-Hodgkin lymphoma	Female	0.8 (0.1-2.3)	6 (1-12.4)
Timor-Leste	Non-Hodgkin lymphoma	Male	0.7 (0.1-2.1)	2.1 (0.3-4.9)
Togo	Leukemia	Female	2.8 (0.9-6.2)	3.5 (0.6-7.7)
Togo	Leukemia	Male	0.8 (0.2-2)	5.1 (0.9-10.3)
Togo	Multiple myeloma	Female	3.6 (1-7.8)	7.6 (2.8-14.3)
Togo	Multiple myeloma	Male	1.8 (0.4-4.8)	7.6 (2.9-14.2)
Togo	Non-Hodgkin lymphoma	Female	2 (0.3-4.6)	7.5 (2.6-14.5)
Togo	Non-Hodgkin lymphoma	Male	1.2 (0.3-3.1)	2.6 (0.8-5.6)
Tokelau	Leukemia	Female	6.9 (2.4-13.5)	6.8 (2.4-13.1)
Tokelau	Leukemia	Male	3.4 (1.1-6.5)	8 (3-14.6)
Tokelau	Multiple myeloma	Female	6.1 (1.7-12.4)	6.9 (2.4-13.6)
Tokelau	Multiple myeloma	Male	4.3 (1-9.9)	7.7 (2.8-14.4)
Tokelau	Non-Hodgkin lymphoma	Female	4 (0.7-8.8)	10.6 (4.1-18.6)
Tokelau	Non-Hodgkin lymphoma	Male	4.1 (1.2-9)	2.2 (0.7-4.7)
Tonga	Leukemia	Female	10.3 (4.1-17.8)	7.8 (3-14.5)
Tonga	Leukemia	Male	4.5 (2-8)	6.4 (2.3-12.6)
Tonga	Multiple myeloma	Female	9.5 (3.3-17.8)	4 (1.4-8.2)
Tonga	Multiple myeloma	Male	6.3 (1.8-12.8)	9.7 (3.6-17.8)
Tonga	Non-Hodgkin lymphoma	Female	5.7 (1-11.7)	7.1 (2.7-13.4)
Tonga	Non-Hodgkin lymphoma	Male	6.1 (2.1-11.7)	8.2 (3-15.3)
Trinidad and Tobago	Leukemia	Female	7.8 (3-14.2)	7.8 (2.9-14.6)
Trinidad and Tobago	Leukemia	Male	4 (1.8-6.9)	4.1 (1.3-8.5)
Trinidad and Tobago	Multiple myeloma	Female	8.5 (2.8-16.2)	2.2 (0.6-5.1)
Trinidad and Tobago	Multiple myeloma	Male	5.9 (1.7-12.3)	1.5 (0.4-3.4)
Trinidad and Tobago	Non-Hodgkin lymphoma	Female	5.6 (1-11.5)	2.1 (0.6-4.6)
Trinidad and Tobago	Non-Hodgkin lymphoma	Male	5.6 (2-10.9)	5 (1.8-9.6)
Tunisia	Leukemia	Female	5.9 (2.2-11.4)	1.4 (0.4-3.4)
Tunisia	Leukemia	Male	3.4 (1.4-6.3)	1.5 (0.4-3.5)
Tunisia	Multiple myeloma	Female	7.9 (2.6-15.1)	3.8 (1.2-8.2)
Tunisia	Multiple myeloma	Male	5.1 (1.4-11.1)	6.4 (2.3-12.4)
Tunisia	Non-Hodgkin lymphoma	Female	5.4 (1-11.1)	4.9 (1.8-9.5)
Tunisia	Non-Hodgkin lymphoma	Male	4.8 (1.7-9.5)	10.4 (4-18.6)
Turkey	Leukemia	Female	7.8 (3-14.5)	9.6 (3.6-17.5)
Turkey	Leukemia	Male	3.8 (1.6-6.8)	7 (2.5-13.5)
Turkey	Multiple myeloma	Female	9.9 (3.4-18.4)	10.3 (3.9-18.7)
Turkey	Multiple myeloma	Male	6.3 (1.7-13)	4 (1.5-8)
Turkey	Non-Hodgkin lymphoma	Female	6.2 (1.1-12.8)	2.6 (0.8-5.4)
Turkey	Non-Hodgkin lymphoma	Male	5.3 (1.9-10.7)	6.3 (2.2-12.5)
Turkmenistan	Leukemia	Female	3.9 (1.4-7.6)	7.8 (2.9-14.7)
Turkmenistan	Leukemia	Male	1.8 (0.8-3.4)	6.2 (2.3-12.1)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Turkmenistan	Multiple myeloma	Female	7.5 (2.4-14.7)	9 (3.5-16.3)
Turkmenistan	Multiple myeloma	Male	5.4 (1.5-11.5)	6.7 (2.4-13.1)
Turkmenistan	Non-Hodgkin lymphoma	Female	4.7 (0.8-9.8)	1.6 (0.5-3.5)
Turkmenistan	Non-Hodgkin lymphoma	Male	4.2 (1.5-8.5)	9.1 (3.5-16.3)
Tuvalu	Leukemia	Female	5.6 (1.8-11.5)	2.4 (0.7-5.3)
Tuvalu	Leukemia	Male	2.9 (0.9-5.8)	8.1 (3-14.7)
Tuvalu	Multiple myeloma	Female	5.3 (1.4-11.2)	6.4 (2.3-12.6)
Tuvalu	Multiple myeloma	Male	4 (0.9-9.4)	6.3 (2.3-12)
Tuvalu	Non-Hodgkin lymphoma	Female	3.5 (0.5-8)	7.6 (2.8-14.5)
Tuvalu	Non-Hodgkin lymphoma	Male	3.7 (1-8.2)	7.5 (2.7-14.4)
Uganda	Leukemia	Female	0.8 (0.2-2.2)	6.9 (2.4-13.6)
Uganda	Leukemia	Male	0.5 (0.1-1.4)	8.6 (3.1-16.2)
Uganda	Multiple myeloma	Female	2 (0.4-4.9)	9.4 (3.5-17.2)
Uganda	Multiple myeloma	Male	1.4 (0.2-4.1)	4.4 (1.5-9.1)
Uganda	Non-Hodgkin lymphoma	Female	1.2 (0.2-3.2)	2.4 (0.7-5.3)
Uganda	Non-Hodgkin lymphoma	Male	1.1 (0.2-3)	6.1 (2.2-12)
Ukraine	Leukemia	Female	10.8 (4.4-19.1)	5.6 (2-11.2)
Ukraine	Leukemia	Male	4.7 (2.3-7.9)	9.9 (3.8-17.7)
Ukraine	Multiple myeloma	Female	10.4 (3.6-19.2)	3.1 (1.1-6.1)
Ukraine	Multiple myeloma	Male	6.8 (2-13.6)	3.4 (1.2-6.8)
Ukraine	Non-Hodgkin lymphoma	Female	7 (1.2-14.1)	8.4 (3.2-15.3)
Ukraine	Non-Hodgkin lymphoma	Male	5.7 (2.1-10.9)	7.6 (2.7-14.7)
United Arab Emirates	Leukemia	Female	12 (5-20.7)	6.3 (2.2-12.7)
United Arab Emirates	Leukemia	Male	6.9 (3.3-11.4)	7.3 (2.7-13.8)
United Arab Emirates	Multiple myeloma	Female	11.1 (3.9-20.3)	11.3 (4.4-19.7)
United Arab Emirates	Multiple myeloma	Male	9.3 (2.6-17.8)	8.2 (3.1-15.1)
United Arab Emirates	Non-Hodgkin lymphoma	Female	6.7 (1.1-13.5)	6.3 (2.2-12.1)
United Arab Emirates	Non-Hodgkin lymphoma	Male	8.2 (3.1-15.1)	11.8 (4.6-20.3)
United Kingdom	Leukemia	Female	9.6 (3.6-18)	3 (1-6)
United Kingdom	Leukemia	Male	6 (2.6-10.4)	8.7 (3.3-15.9)
United Kingdom	Multiple myeloma	Female	7.3 (2.2-14.3)	4.2 (1.5-8.5)
United Kingdom	Multiple myeloma	Male	6.7 (1.8-13.7)	5.1 (1.8-9.9)
United Kingdom	Non-Hodgkin lymphoma	Female	5.5 (1-11.6)	8.9 (3.3-16.7)
United Kingdom	Non-Hodgkin lymphoma	Male	6.7 (2.3-13.1)	6.7 (2.5-13)
United Republic of Tanzania	Leukemia	Female	1.5 (0.4-3.4)	3.1 (1-6.5)
United Republic of Tanzania	Leukemia	Male	0.8 (0.2-1.8)	5.7 (2.1-10.7)
United Republic of Tanzania	Multiple myeloma	Female	3.8 (1.1-8.2)	2.2 (0.7-4.9)
United Republic of Tanzania	Multiple myeloma	Male	2.3 (0.5-5.7)	5.9 (2.1-11.7)
United Republic of Tanzania	Non-Hodgkin lymphoma	Female	2.1 (0.4-5)	5.8 (2.2-11)
United Republic of Tanzania	Non-Hodgkin lymphoma	Male	1.8 (0.5-4.2)	5.5 (2-10.3)
United States of America	Leukemia	Female	10.9 (4.2-19.3)	7.6 (2.8-14.2)
United States of America	Leukemia	Male	6 (2.5-10.4)	8.5 (2.9-16)
United States of America	Multiple myeloma	Female	8.3 (2.7-15.7)	10.3 (4-18.6)
United States of America	Multiple myeloma	Male	6.6 (1.8-13.6)	7.4 (2.7-14.3)

Countries	Causes	Sex	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
United States of America	Non-Hodgkin lymphoma	Female	6.1 (1.1-12.4)	2.4 (0.7-5.3)
United States of America	Non-Hodgkin lymphoma	Male	6.7 (2.3-13.1)	4.6 (1.7-8.6)
United States Virgin Islands	Leukemia	Female	11.5 (4.6-19.9)	2.9 (0.9-6.2)
United States Virgin Islands	Leukemia	Male	5 (2.2-8.7)	6.2 (2.2-12.7)
United States Virgin Islands	Multiple myeloma	Female	9.5 (3.2-17.9)	5.7 (2.1-11)
United States Virgin Islands	Multiple myeloma	Male	6.7 (1.8-13.8)	1.4 (0.4-3.3)
United States Virgin Islands	Non-Hodgkin lymphoma	Female	6.9 (1.2-13.7)	8.7 (3.3-16.1)
United States Virgin Islands	Non-Hodgkin lymphoma	Male	6.2 (2.2-12)	9.1 (3.4-16.6)
Uruguay	Leukemia	Female	7 (2.4-13.4)	5.7 (2-11.2)
Uruguay	Leukemia	Male	3.8 (1.4-7.2)	10.3 (4-18.4)
Uruguay	Multiple myeloma	Female	5.9 (1.7-12)	9.8 (3.8-17.6)
Uruguay	Multiple myeloma	Male	4.6 (1.2-10.2)	6.6 (2.4-12.5)
Uruguay	Non-Hodgkin lymphoma	Female	4.3 (0.7-9.3)	2.8 (0.8-6.5)
Uruguay	Non-Hodgkin lymphoma	Male	4.5 (1.5-9.6)	7 (2.6-13.5)
Uzbekistan	Leukemia	Female	4.7 (1.7-8.8)	3.5 (1.2-6.8)
Uzbekistan	Leukemia	Male	2.4 (1-4.5)	9.8 (3.8-17.9)
Uzbekistan	Multiple myeloma	Female	6.7 (2.1-13.4)	10.1 (3.8-18.2)
Uzbekistan	Multiple myeloma	Male	5 (1.3-10.7)	13.4 (5.6-22.6)
Uzbekistan	Non-Hodgkin lymphoma	Female	4 (0.7-8.7)	7.8 (2.9-14.6)
Uzbekistan	Non-Hodgkin lymphoma	Male	3.8 (1.3-7.8)	9.3 (3.6-16.5)
Vanuatu	Leukemia	Female	5.9 (2.1-11.5)	2.2 (0.6-5)
Vanuatu	Leukemia	Male	2.7 (0.8-5.6)	7.7 (2.9-14.6)
Vanuatu	Multiple myeloma	Female	6.2 (1.7-12.6)	6.8 (2.4-13)
Vanuatu	Multiple myeloma	Male	3.7 (0.8-9)	8.2 (3-15.1)
Vanuatu	Non-Hodgkin lymphoma	Female	3.9 (0.6-8.6)	5.4 (1.9-10.6)
Vanuatu	Non-Hodgkin lymphoma	Male	3.5 (0.9-7.9)	11.7 (4.7-20.4)
Venezuela (Bolivarian Republic of)	Leukemia	Female	5.3 (1.9-10.1)	9.9 (3.8-17.9)
Venezuela (Bolivarian Republic of)	Leukemia	Male	2.6 (1-4.9)	5.7 (2-11)
Venezuela (Bolivarian Republic of)	Multiple myeloma	Female	7 (2.2-13.9)	4.7 (1.6-9.4)
Venezuela (Bolivarian Republic of)	Multiple myeloma	Male	5.3 (1.4-11.4)	9.4 (3.5-17.3)
Venezuela (Bolivarian Republic of)	Non-Hodgkin lymphoma	Female	4.4 (0.8-9.2)	4.6 (1.5-9.5)
Venezuela (Bolivarian Republic of)	Non-Hodgkin lymphoma	Male	4.3 (1.4-8.8)	0.8 (0.1-2.4)
Viet Nam	Leukemia	Female	1.1 (0.2-3.1)	3.3 (1.1-6.6)
Viet Nam	Leukemia	Male	0.4 (0.1-1.3)	7.4 (2.6-14.3)
Viet Nam	Multiple myeloma	Female	1.1 (0.2-2.9)	5.9 (2.2-11.4)
Viet Nam	Multiple myeloma	Male	0.7 (0.1-2.2)	6.6 (2.3-12.8)
Viet Nam	Non-Hodgkin lymphoma	Female	0.7 (0.1-2.2)	6.1 (2.1-12.3)
Viet Nam	Non-Hodgkin lymphoma	Male	0.6 (0.1-1.9)	7.8 (2.9-14.7)

<b>Countries</b>	<b>Causes</b>	<b>Sex</b>	<b>Percent change in 1990 (95% UI)</b>	<b>Percent change in 2019 (95% UI)</b>
<b>Yemen</b>	<b>Leukemia</b>	Female	2.1 (0.6-5)	2.9 (0.9-6.2)
<b>Yemen</b>	<b>Leukemia</b>	Male	1.1 (0.3-2.5)	4.6 (1.6-9)
<b>Yemen</b>	<b>Multiple myeloma</b>	Female	3.2 (0.8-7.1)	3 (1-6.2)
<b>Yemen</b>	<b>Multiple myeloma</b>	Male	1.8 (0.3-4.8)	7.2 (2.6-13.9)
<b>Yemen</b>	<b>Non-Hodgkin lymphoma</b>	Female	1.9 (0.3-4.7)	8.4 (3.2-15.6)
<b>Yemen</b>	<b>Non-Hodgkin lymphoma</b>	Male	1.5 (0.3-3.9)	8.2 (3.1-15.6)
<b>Zambia</b>	<b>Leukemia</b>	Female	1.3 (0.4-3.1)	8.6 (3.2-15.7)
<b>Zambia</b>	<b>Leukemia</b>	Male	0.7 (0.2-1.8)	6.3 (2.2-12.2)
<b>Zambia</b>	<b>Multiple myeloma</b>	Female	3.3 (0.8-7.2)	7.6 (2.9-14.3)
<b>Zambia</b>	<b>Multiple myeloma</b>	Male	2.3 (0.5-5.8)	14 (5.9-23.4)
<b>Zambia</b>	<b>Non-Hodgkin lymphoma</b>	Female	1.8 (0.3-4.4)	3.3 (1.1-6.6)
<b>Zambia</b>	<b>Non-Hodgkin lymphoma</b>	Male	1.7 (0.4-4.2)	9.5 (3.6-17.5)
<b>Zimbabwe</b>	<b>Leukemia</b>	Female	5.9 (2.3-11)	6.7 (2.4-13.2)
<b>Zimbabwe</b>	<b>Leukemia</b>	Male	1.7 (0.6-3.3)	6.6 (2.4-12.5)
<b>Zimbabwe</b>	<b>Multiple myeloma</b>	Female	6 (1.9-11.8)	6.7 (2.5-13)
<b>Zimbabwe</b>	<b>Multiple myeloma</b>	Male	2.4 (0.6-5.7)	2.3 (0.7-5)
<b>Zimbabwe</b>	<b>Non-Hodgkin lymphoma</b>	Female	4.1 (0.7-8.8)	3.5 (1.2-7.2)
<b>Zimbabwe</b>	<b>Non-Hodgkin lymphoma</b>	Male	2.2 (0.6-4.9)	2.6 (0.8-5.6)

**Abbreviations:** UI, uncertainty interval.

**Supplementary Table S9.** The percent change in death cases attributable to occupational carcinogens between 1990 and 2019 at national level.

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Afghanistan	All leukemia	Benzene	0.33 (0.1-0.56)	0.19 (0.14-0.28)
Afghanistan	All leukemia	Formaldehyde	0.12 (0.09-0.15)	0.02 (0.01-0.02)
Afghanistan	Acute myeloid leukemia	Benzene	0.44 (0.13-0.77)	0.05 (0.04-0.06)
Afghanistan	Acute myeloid leukemia	Formaldehyde	0.16 (0.11-0.22)	0.26 (0.2-0.33)
Afghanistan	Acute lymphoid leukemia	Benzene	0.3 (0.08-0.57)	0.02 (0.01-0.03)
Afghanistan	Acute lymphoid leukemia	Formaldehyde	0.11 (0.06-0.16)	0.17 (0.13-0.22)
Afghanistan	Chronic myeloid leukemia	Benzene	0.41 (0.12-0.76)	0.16 (0.12-0.19)
Afghanistan	Chronic myeloid leukemia	Formaldehyde	0.15 (0.1-0.22)	0.11 (0.09-0.14)
Afghanistan	Chronic lymphoid leukemia	Benzene	0.38 (0.12-0.67)	0.11 (0.09-0.14)
Afghanistan	Chronic lymphoid leukemia	Formaldehyde	0.13 (0.09-0.19)	0.02 (0.01-0.03)
Afghanistan	Other leukemia	Benzene	0.29 (0.08-0.49)	0.02 (0.01-0.02)
Afghanistan	Other leukemia	Formaldehyde	0.1 (0.07-0.14)	0.15 (0.12-0.19)
Albania	All leukemia	Benzene	0.27 (0.05-0.49)	0.15 (0.12-0.18)
Albania	All leukemia	Formaldehyde	0.03 (0.02-0.03)	0.12 (0.09-0.15)
Albania	Acute myeloid leukemia	Benzene	0.32 (0.06-0.59)	0.1 (0.08-0.13)
Albania	Acute myeloid leukemia	Formaldehyde	0.03 (0.02-0.04)	0.11 (0.09-0.14)
Albania	Acute lymphoid leukemia	Benzene	0.24 (0.04-0.46)	0.03 (0.02-0.03)
Albania	Acute lymphoid leukemia	Formaldehyde	0.02 (0.01-0.03)	0.01 (0.01-0.02)
Albania	Chronic myeloid leukemia	Benzene	0.34 (0.06-0.64)	0.23 (0.18-0.28)
Albania	Chronic myeloid leukemia	Formaldehyde	0.03 (0.02-0.05)	0.12 (0.09-0.16)
Albania	Chronic lymphoid leukemia	Benzene	0.19 (0.04-0.35)	0.1 (0.07-0.13)
Albania	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.01-0.02)	0.09 (0.07-0.12)
Albania	Other leukemia	Benzene	0.25 (0.05-0.47)	0.21 (0.16-0.25)
Albania	Other leukemia	Formaldehyde	0.03 (0.02-0.03)	0.02 (0.01-0.02)
Algeria	All leukemia	Benzene	0.36 (0.11-0.61)	0.1 (0.07-0.13)
Algeria	All leukemia	Formaldehyde	0.12 (0.09-0.15)	0.11 (0.09-0.14)
Algeria	Acute myeloid leukemia	Benzene	0.38 (0.11-0.68)	0.04 (0.03-0.05)
Algeria	Acute myeloid leukemia	Formaldehyde	0.13 (0.09-0.18)	0.03 (0.02-0.03)
Algeria	Acute lymphoid leukemia	Benzene	0.2 (0.06-0.4)	0.06 (0.04-0.07)
Algeria	Acute lymphoid leukemia	Formaldehyde	0.07 (0.04-0.11)	0.15 (0.12-0.19)
Algeria	Chronic myeloid leukemia	Benzene	0.51 (0.14-0.89)	0.05 (0.03-0.07)
Algeria	Chronic myeloid leukemia	Formaldehyde	0.17 (0.12-0.23)	0.2 (0.15-0.25)
Algeria	Chronic lymphoid leukemia	Benzene	0.11 (0.03-0.2)	0.1 (0.07-0.13)
Algeria	Chronic lymphoid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.02 (0.01-0.03)
Algeria	Other leukemia	Benzene	0.36 (0.11-0.61)	0.12 (0.09-0.16)
Algeria	Other leukemia	Formaldehyde	0.12 (0.09-0.16)	0.07 (0.05-0.09)
American Samoa	All leukemia	Benzene	0.7 (0.21-1.16)	0.09 (0.07-0.12)
American Samoa	All leukemia	Formaldehyde	0.45 (0.34-0.57)	0.27 (0.23-0.32)
American Samoa	Acute myeloid leukemia	Benzene	0.88 (0.26-1.45)	0.16 (0.13-0.2)
American Samoa	Acute myeloid leukemia	Formaldehyde	0.54 (0.4-0.69)	0.11 (0.08-0.14)
American Samoa	Acute lymphoid leukemia	Benzene	0.63 (0.19-1.09)	0.13 (0.09-0.17)
American Samoa	Acute lymphoid leukemia	Formaldehyde	0.42 (0.29-0.58)	0.17 (0.13-0.21)



Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
American Samoa	Chronic myeloid leukemia	Benzene	0.8 (0.23-1.32)	0.09 (0.07-0.12)
American Samoa	Chronic myeloid leukemia	Formaldehyde	0.51 (0.39-0.66)	0.01 (0.01-0.02)
American Samoa	Chronic lymphoid leukemia	Benzene	0.67 (0.19-1.13)	0.12 (0.1-0.15)
American Samoa	Chronic lymphoid leukemia	Formaldehyde	0.46 (0.35-0.59)	0.02 (0.01-0.02)
American Samoa	Other leukemia	Benzene	0.54 (0.16-0.9)	0.03 (0.02-0.03)
American Samoa	Other leukemia	Formaldehyde	0.35 (0.27-0.45)	0.09 (0.06-0.11)
Andorra	All leukemia	Benzene	0.46 (0.09-0.84)	0.36 (0.27-0.46)
Andorra	All leukemia	Formaldehyde	0.06 (0.05-0.07)	0.14 (0.1-0.18)
Andorra	Acute myeloid leukemia	Benzene	0.5 (0.09-0.91)	0.02 (0.01-0.03)
Andorra	Acute myeloid leukemia	Formaldehyde	0.06 (0.05-0.08)	0.1 (0.07-0.13)
Andorra	Acute lymphoid leukemia	Benzene	0.69 (0.14-1.29)	0.1 (0.08-0.13)
Andorra	Acute lymphoid leukemia	Formaldehyde	0.09 (0.06-0.11)	0.18 (0.14-0.23)
Andorra	Chronic myeloid leukemia	Benzene	0.58 (0.1-1.1)	0.19 (0.15-0.24)
Andorra	Chronic myeloid leukemia	Formaldehyde	0.07 (0.05-0.09)	0.17 (0.12-0.23)
Andorra	Chronic lymphoid leukemia	Benzene	0.22 (0.04-0.41)	0.18 (0.14-0.22)
Andorra	Chronic lymphoid leukemia	Formaldehyde	0.03 (0.02-0.04)	0.09 (0.07-0.13)
Andorra	Other leukemia	Benzene	0.38 (0.07-0.69)	0.14 (0.11-0.18)
Andorra	Other leukemia	Formaldehyde	0.05 (0.04-0.06)	0.02 (0.01-0.02)
Angola	All leukemia	Benzene	0.56 (0.15-1.15)	0.07 (0.05-0.1)
Angola	All leukemia	Formaldehyde	0.22 (0.12-0.36)	0.11 (0.09-0.14)
Angola	Acute myeloid leukemia	Benzene	0.76 (0.18-1.47)	0.16 (0.12-0.21)
Angola	Acute myeloid leukemia	Formaldehyde	0.3 (0.13-0.46)	0.02 (0.01-0.03)
Angola	Acute lymphoid leukemia	Benzene	0.36 (0.08-0.81)	0.01 (0.01-0.02)
Angola	Acute lymphoid leukemia	Formaldehyde	0.14 (0.05-0.27)	0.06 (0.04-0.08)
Angola	Chronic myeloid leukemia	Benzene	0.8 (0.18-1.67)	0.09 (0.07-0.11)
Angola	Chronic myeloid leukemia	Formaldehyde	0.31 (0.11-0.49)	0.1 (0.08-0.13)
Angola	Chronic lymphoid leukemia	Benzene	0.55 (0.16-0.94)	0.02 (0.02-0.03)
Angola	Chronic lymphoid leukemia	Formaldehyde	0.21 (0.16-0.26)	0.11 (0.08-0.15)
Angola	Other leukemia	Benzene	0.54 (0.13-1.18)	0.01 (0.01-0.01)
Angola	Other leukemia	Formaldehyde	0.21 (0.1-0.37)	0.03 (0.02-0.03)
Antigua and Barbuda	All leukemia	Benzene	0.96 (0.28-1.56)	0.18 (0.14-0.22)
Antigua and Barbuda	All leukemia	Formaldehyde	0.24 (0.2-0.29)	0.2 (0.16-0.25)
Antigua and Barbuda	Acute myeloid leukemia	Benzene	1.23 (0.36-2.04)	0.27 (0.22-0.33)
Antigua and Barbuda	Acute myeloid leukemia	Formaldehyde	0.31 (0.25-0.39)	0.07 (0.05-0.09)
Antigua and Barbuda	Acute lymphoid leukemia	Benzene	0.8 (0.23-1.34)	0.08 (0.06-0.11)
Antigua and Barbuda	Acute lymphoid leukemia	Formaldehyde	0.2 (0.15-0.27)	0.17 (0.14-0.21)
Antigua and Barbuda	Chronic myeloid leukemia	Benzene	1.04 (0.31-1.73)	0.15 (0.11-0.18)
Antigua and Barbuda	Chronic myeloid leukemia	Formaldehyde	0.26 (0.22-0.33)	0.18 (0.13-0.23)
Antigua and Barbuda	Chronic lymphoid leukemia	Benzene	0.68 (0.2-1.14)	0.02 (0.02-0.03)
Antigua and Barbuda	Chronic lymphoid leukemia	Formaldehyde	0.18 (0.13-0.22)	0.02 (0.02-0.03)
Antigua and Barbuda	Other leukemia	Benzene	0.89 (0.26-1.46)	0.07 (0.06-0.09)
Antigua and Barbuda	Other leukemia	Formaldehyde	0.22 (0.18-0.27)	0.17 (0.14-0.21)
Argentina	All leukemia	Benzene	0.73 (0.21-1.2)	0.14 (0.11-0.18)
Argentina	All leukemia	Formaldehyde	0.27 (0.23-0.32)	0.12 (0.09-0.16)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Argentina	Acute myeloid leukemia	Benzene	0.87 (0.26-1.46)	0.02 (0.01-0.02)
Argentina	Acute myeloid leukemia	Formaldehyde	0.31 (0.26-0.38)	0.02 (0.01-0.03)
Argentina	Acute lymphoid leukemia	Benzene	0.68 (0.2-1.13)	0.01 (0.01-0.02)
Argentina	Acute lymphoid leukemia	Formaldehyde	0.25 (0.2-0.31)	0.13 (0.1-0.16)
Argentina	Chronic myeloid leukemia	Benzene	0.84 (0.24-1.41)	0.02 (0.02-0.03)
Argentina	Chronic myeloid leukemia	Formaldehyde	0.31 (0.25-0.38)	0.13 (0.1-0.18)
Argentina	Chronic lymphoid leukemia	Benzene	0.36 (0.11-0.6)	0.16 (0.13-0.2)
Argentina	Chronic lymphoid leukemia	Formaldehyde	0.14 (0.11-0.18)	0.18 (0.15-0.22)
Argentina	Other leukemia	Benzene	0.72 (0.21-1.18)	0.15 (0.11-0.19)
Argentina	Other leukemia	Formaldehyde	0.27 (0.22-0.32)	0.17 (0.13-0.22)
Armenia	All leukemia	Benzene	0.57 (0.17-0.96)	0.2 (0.16-0.24)
Armenia	All leukemia	Formaldehyde	0.19 (0.15-0.23)	0.24 (0.18-0.32)
Armenia	Acute myeloid leukemia	Benzene	0.54 (0.15-0.95)	0.01 (0.01-0.02)
Armenia	Acute myeloid leukemia	Formaldehyde	0.18 (0.13-0.25)	0.1 (0.08-0.13)
Armenia	Acute lymphoid leukemia	Benzene	0.55 (0.15-0.94)	0.1 (0.07-0.13)
Armenia	Acute lymphoid leukemia	Formaldehyde	0.17 (0.13-0.22)	0.09 (0.07-0.12)
Armenia	Chronic myeloid leukemia	Benzene	0.66 (0.19-1.12)	0.13 (0.1-0.17)
Armenia	Chronic myeloid leukemia	Formaldehyde	0.22 (0.17-0.3)	0.02 (0.01-0.02)
Armenia	Chronic lymphoid leukemia	Benzene	0.46 (0.13-0.77)	0.01 (0.01-0.02)
Armenia	Chronic lymphoid leukemia	Formaldehyde	0.15 (0.11-0.19)	0.14 (0.11-0.18)
Armenia	Other leukemia	Benzene	0.63 (0.19-1.04)	0.19 (0.15-0.24)
Armenia	Other leukemia	Formaldehyde	0.21 (0.16-0.26)	0.13 (0.1-0.16)
Australia	All leukemia	Benzene	0.34 (0.06-0.6)	0.17 (0.13-0.23)
Australia	All leukemia	Formaldehyde	0.04 (0.03-0.05)	0.1 (0.08-0.13)
Australia	Acute myeloid leukemia	Benzene	0.38 (0.07-0.67)	0.02 (0.01-0.02)
Australia	Acute myeloid leukemia	Formaldehyde	0.05 (0.04-0.05)	0.18 (0.14-0.23)
Australia	Acute lymphoid leukemia	Benzene	0.5 (0.09-0.88)	0.04 (0.03-0.06)
Australia	Acute lymphoid leukemia	Formaldehyde	0.06 (0.05-0.07)	0.17 (0.14-0.22)
Australia	Chronic myeloid leukemia	Benzene	0.36 (0.07-0.65)	0.19 (0.16-0.23)
Australia	Chronic myeloid leukemia	Formaldehyde	0.04 (0.04-0.05)	0.24 (0.17-0.31)
Australia	Chronic lymphoid leukemia	Benzene	0.17 (0.03-0.31)	0.02 (0.01-0.03)
Australia	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.02-0.03)	0.21 (0.15-0.29)
Australia	Other leukemia	Benzene	0.24 (0.04-0.44)	0.02 (0.01-0.02)
Australia	Other leukemia	Formaldehyde	0.03 (0.02-0.03)	0.14 (0.11-0.17)
Austria	All leukemia	Benzene	0.28 (0.05-0.49)	0.09 (0.07-0.11)
Austria	All leukemia	Formaldehyde	0.04 (0.03-0.05)	0.15 (0.12-0.19)
Austria	Acute myeloid leukemia	Benzene	0.35 (0.06-0.62)	0.06 (0.04-0.08)
Austria	Acute myeloid leukemia	Formaldehyde	0.05 (0.04-0.06)	0.35 (0.26-0.44)
Austria	Acute lymphoid leukemia	Benzene	0.49 (0.09-0.88)	0.11 (0.09-0.15)
Austria	Acute lymphoid leukemia	Formaldehyde	0.07 (0.06-0.09)	0.02 (0.02-0.03)
Austria	Chronic myeloid leukemia	Benzene	0.32 (0.06-0.56)	0.02 (0.02-0.03)
Austria	Chronic myeloid leukemia	Formaldehyde	0.04 (0.04-0.05)	0.23 (0.18-0.27)
Austria	Chronic lymphoid leukemia	Benzene	0.15 (0.03-0.26)	0.08 (0.06-0.11)
Austria	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.02-0.03)	0.08 (0.06-0.11)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Austria	Other leukemia	Benzene	0.26 (0.05-0.45)	0.14 (0.1-0.18)
Austria	Other leukemia	Formaldehyde	0.04 (0.03-0.04)	0.02 (0.02-0.03)
Azerbaijan	All leukemia	Benzene	0.59 (0.17-0.98)	0.31 (0.23-0.39)
Azerbaijan	All leukemia	Formaldehyde	0.22 (0.18-0.28)	0.02 (0.01-0.02)
Azerbaijan	Acute myeloid leukemia	Benzene	0.74 (0.2-1.28)	0.17 (0.12-0.24)
Azerbaijan	Acute myeloid leukemia	Formaldehyde	0.28 (0.2-0.36)	0.1 (0.08-0.13)
Azerbaijan	Acute lymphoid leukemia	Benzene	0.48 (0.13-0.86)	0.21 (0.16-0.27)
Azerbaijan	Acute lymphoid leukemia	Formaldehyde	0.18 (0.1-0.25)	0.09 (0.07-0.13)
Azerbaijan	Chronic myeloid leukemia	Benzene	0.77 (0.21-1.38)	0.12 (0.1-0.15)
Azerbaijan	Chronic myeloid leukemia	Formaldehyde	0.29 (0.2-0.4)	0.21 (0.15-0.28)
Azerbaijan	Chronic lymphoid leukemia	Benzene	0.63 (0.17-1.06)	0.15 (0.12-0.18)
Azerbaijan	Chronic lymphoid leukemia	Formaldehyde	0.23 (0.17-0.3)	0.29 (0.23-0.36)
Azerbaijan	Other leukemia	Benzene	0.57 (0.16-0.97)	0.25 (0.2-0.29)
Azerbaijan	Other leukemia	Formaldehyde	0.22 (0.17-0.28)	0.02 (0.02-0.03)
Bahamas	All leukemia	Benzene	1.08 (0.33-1.77)	0.02 (0.01-0.02)
Bahamas	All leukemia	Formaldehyde	0.24 (0.2-0.3)	0.01 (0.01-0.02)
Bahamas	Acute myeloid leukemia	Benzene	1.31 (0.39-2.16)	0.2 (0.15-0.25)
Bahamas	Acute myeloid leukemia	Formaldehyde	0.3 (0.24-0.37)	0.05 (0.04-0.06)
Bahamas	Acute lymphoid leukemia	Benzene	0.76 (0.23-1.29)	0.01 (0.01-0.02)
Bahamas	Acute lymphoid leukemia	Formaldehyde	0.18 (0.13-0.23)	0.03 (0.02-0.03)
Bahamas	Chronic myeloid leukemia	Benzene	1.25 (0.39-2.07)	0.02 (0.02-0.03)
Bahamas	Chronic myeloid leukemia	Formaldehyde	0.29 (0.24-0.35)	0.09 (0.07-0.12)
Bahamas	Chronic lymphoid leukemia	Benzene	0.6 (0.18-1)	0.19 (0.14-0.25)
Bahamas	Chronic lymphoid leukemia	Formaldehyde	0.13 (0.11-0.16)	0.13 (0.1-0.16)
Bahamas	Other leukemia	Benzene	1.06 (0.32-1.78)	0.14 (0.11-0.16)
Bahamas	Other leukemia	Formaldehyde	0.24 (0.2-0.3)	0.12 (0.09-0.16)
Bahrain	All leukemia	Benzene	1.05 (0.31-1.75)	0.03 (0.02-0.03)
Bahrain	All leukemia	Formaldehyde	0.31 (0.24-0.4)	0.05 (0.04-0.07)
Bahrain	Acute myeloid leukemia	Benzene	1.1 (0.32-1.98)	0.2 (0.14-0.26)
Bahrain	Acute myeloid leukemia	Formaldehyde	0.32 (0.23-0.49)	0.06 (0.04-0.08)
Bahrain	Acute lymphoid leukemia	Benzene	0.8 (0.25-1.43)	0.03 (0.02-0.04)
Bahrain	Acute lymphoid leukemia	Formaldehyde	0.24 (0.16-0.36)	0.18 (0.15-0.23)
Bahrain	Chronic myeloid leukemia	Benzene	1.33 (0.38-2.25)	0.06 (0.05-0.08)
Bahrain	Chronic myeloid leukemia	Formaldehyde	0.41 (0.3-0.55)	0.03 (0.02-0.04)
Bahrain	Chronic lymphoid leukemia	Benzene	0.29 (0.08-0.48)	0.03 (0.02-0.03)
Bahrain	Chronic lymphoid leukemia	Formaldehyde	0.06 (0.05-0.08)	0.02 (0.01-0.02)
Bahrain	Other leukemia	Benzene	1.11 (0.31-1.91)	0.45 (0.32-0.64)
Bahrain	Other leukemia	Formaldehyde	0.34 (0.23-0.47)	0.12 (0.09-0.15)
Bangladesh	All leukemia	Benzene	0.31 (0.08-0.6)	0.06 (0.05-0.08)
Bangladesh	All leukemia	Formaldehyde	0.14 (0.09-0.21)	0.11 (0.08-0.14)
Bangladesh	Acute myeloid leukemia	Benzene	0.35 (0.1-0.67)	0.01 (0.01-0.02)
Bangladesh	Acute myeloid leukemia	Formaldehyde	0.16 (0.1-0.24)	0.18 (0.14-0.22)
Bangladesh	Acute lymphoid leukemia	Benzene	0.21 (0.05-0.44)	0.21 (0.16-0.27)
Bangladesh	Acute lymphoid leukemia	Formaldehyde	0.09 (0.05-0.16)	0.15 (0.12-0.19)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Bangladesh	Chronic myeloid leukemia	Benzene	0.47 (0.13-0.95)	0.02 (0.01-0.02)
Bangladesh	Chronic myeloid leukemia	Formaldehyde	0.21 (0.12-0.34)	0.02 (0.01-0.02)
Bangladesh	Chronic lymphoid leukemia	Benzene	0.18 (0.05-0.31)	0.1 (0.07-0.14)
Bangladesh	Chronic lymphoid leukemia	Formaldehyde	0.09 (0.07-0.11)	0.14 (0.1-0.17)
Bangladesh	Other leukemia	Benzene	0.27 (0.07-0.54)	0.12 (0.09-0.16)
Bangladesh	Other leukemia	Formaldehyde	0.12 (0.07-0.19)	0.11 (0.08-0.14)
Barbados	All leukemia	Benzene	0.75 (0.22-1.25)	0.15 (0.11-0.2)
Barbados	All leukemia	Formaldehyde	0.23 (0.19-0.27)	0.09 (0.06-0.12)
Barbados	Acute myeloid leukemia	Benzene	0.98 (0.29-1.63)	0.19 (0.14-0.25)
Barbados	Acute myeloid leukemia	Formaldehyde	0.3 (0.25-0.36)	0.18 (0.13-0.23)
Barbados	Acute lymphoid leukemia	Benzene	0.69 (0.22-1.15)	0.19 (0.14-0.23)
Barbados	Acute lymphoid leukemia	Formaldehyde	0.21 (0.17-0.27)	0.1 (0.08-0.13)
Barbados	Chronic myeloid leukemia	Benzene	0.81 (0.23-1.38)	0.11 (0.09-0.14)
Barbados	Chronic myeloid leukemia	Formaldehyde	0.25 (0.2-0.31)	0.16 (0.12-0.2)
Barbados	Chronic lymphoid leukemia	Benzene	0.38 (0.11-0.65)	0.21 (0.16-0.27)
Barbados	Chronic lymphoid leukemia	Formaldehyde	0.12 (0.09-0.14)	0.1 (0.08-0.13)
Barbados	Other leukemia	Benzene	0.65 (0.19-1.08)	0.02 (0.02-0.03)
Barbados	Other leukemia	Formaldehyde	0.2 (0.17-0.24)	0.33 (0.24-0.47)
Belarus	All leukemia	Benzene	0.38 (0.07-0.67)	0.02 (0.01-0.02)
Belarus	All leukemia	Formaldehyde	0.06 (0.05-0.07)	0.12 (0.09-0.15)
Belarus	Acute myeloid leukemia	Benzene	0.44 (0.08-0.78)	0.02 (0.02-0.03)
Belarus	Acute myeloid leukemia	Formaldehyde	0.07 (0.06-0.08)	0.13 (0.1-0.17)
Belarus	Acute lymphoid leukemia	Benzene	0.31 (0.06-0.57)	0.08 (0.06-0.11)
Belarus	Acute lymphoid leukemia	Formaldehyde	0.05 (0.04-0.07)	0.19 (0.15-0.23)
Belarus	Chronic myeloid leukemia	Benzene	0.48 (0.09-0.86)	0.26 (0.19-0.33)
Belarus	Chronic myeloid leukemia	Formaldehyde	0.08 (0.06-0.09)	0.15 (0.12-0.19)
Belarus	Chronic lymphoid leukemia	Benzene	0.21 (0.04-0.38)	0.13 (0.09-0.18)
Belarus	Chronic lymphoid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.13 (0.09-0.2)
Belarus	Other leukemia	Benzene	0.33 (0.06-0.58)	0.13 (0.1-0.17)
Belarus	Other leukemia	Formaldehyde	0.05 (0.04-0.06)	0.12 (0.09-0.16)
Belgium	All leukemia	Benzene	0.24 (0.05-0.42)	0.23 (0.16-0.34)
Belgium	All leukemia	Formaldehyde	0.03 (0.02-0.03)	0.04 (0.02-0.05)
Belgium	Acute myeloid leukemia	Benzene	0.3 (0.05-0.54)	0.21 (0.16-0.26)
Belgium	Acute myeloid leukemia	Formaldehyde	0.04 (0.03-0.04)	0.31 (0.24-0.4)
Belgium	Acute lymphoid leukemia	Benzene	0.39 (0.07-0.7)	0.05 (0.03-0.06)
Belgium	Acute lymphoid leukemia	Formaldehyde	0.05 (0.04-0.06)	0.38 (0.28-0.5)
Belgium	Chronic myeloid leukemia	Benzene	0.25 (0.05-0.45)	0.23 (0.19-0.29)
Belgium	Chronic myeloid leukemia	Formaldehyde	0.03 (0.03-0.04)	0.24 (0.19-0.29)
Belgium	Chronic lymphoid leukemia	Benzene	0.12 (0.02-0.22)	0.2 (0.15-0.25)
Belgium	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.01-0.02)	0.03 (0.03-0.04)
Belgium	Other leukemia	Benzene	0.22 (0.04-0.38)	0.03 (0.03-0.04)
Belgium	Other leukemia	Formaldehyde	0.03 (0.02-0.03)	0.24 (0.18-0.34)
Belize	All leukemia	Benzene	0.52 (0.15-0.87)	0.3 (0.25-0.36)
Belize	All leukemia	Formaldehyde	0.16 (0.13-0.19)	0.45 (0.32-0.6)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Belize	Acute myeloid leukemia	Benzene	0.76 (0.22-1.38)	0.3 (0.22-0.41)
Belize	Acute myeloid leukemia	Formaldehyde	0.23 (0.16-0.31)	0.21 (0.17-0.25)
Belize	Acute lymphoid leukemia	Benzene	0.35 (0.1-0.63)	0.06 (0.04-0.07)
Belize	Acute lymphoid leukemia	Formaldehyde	0.1 (0.07-0.15)	0.02 (0.02-0.03)
Belize	Chronic myeloid leukemia	Benzene	0.8 (0.24-1.36)	0.45 (0.35-0.58)
Belize	Chronic myeloid leukemia	Formaldehyde	0.25 (0.18-0.33)	0.52 (0.37-0.71)
Belize	Chronic lymphoid leukemia	Benzene	0.54 (0.16-0.92)	0.17 (0.13-0.21)
Belize	Chronic lymphoid leukemia	Formaldehyde	0.17 (0.13-0.21)	0.26 (0.19-0.33)
Belize	Other leukemia	Benzene	0.54 (0.16-0.91)	0.34 (0.26-0.42)
Belize	Other leukemia	Formaldehyde	0.16 (0.13-0.2)	0.03 (0.02-0.03)
Benin	All leukemia	Benzene	0.39 (0.11-0.7)	0.26 (0.17-0.37)
Benin	All leukemia	Formaldehyde	0.15 (0.11-0.21)	0.25 (0.21-0.3)
Benin	Acute myeloid leukemia	Benzene	0.35 (0.09-0.69)	0.09 (0.07-0.11)
Benin	Acute myeloid leukemia	Formaldehyde	0.14 (0.07-0.22)	0.04 (0.03-0.05)
Benin	Acute lymphoid leukemia	Benzene	0.26 (0.07-0.52)	0.24 (0.17-0.33)
Benin	Acute lymphoid leukemia	Formaldehyde	0.1 (0.05-0.18)	0.33 (0.24-0.43)
Benin	Chronic myeloid leukemia	Benzene	0.9 (0.26-1.52)	0.2 (0.12-0.3)
Benin	Chronic myeloid leukemia	Formaldehyde	0.36 (0.25-0.49)	0.34 (0.26-0.43)
Benin	Chronic lymphoid leukemia	Benzene	0.22 (0.06-0.38)	0.45 (0.31-0.65)
Benin	Chronic lymphoid leukemia	Formaldehyde	0.09 (0.06-0.12)	0.04 (0.03-0.05)
Benin	Other leukemia	Benzene	0.38 (0.11-0.65)	0.25 (0.17-0.34)
Benin	Other leukemia	Formaldehyde	0.15 (0.1-0.21)	0.28 (0.19-0.39)
Bermuda	All leukemia	Benzene	0.94 (0.27-1.56)	0.22 (0.18-0.27)
Bermuda	All leukemia	Formaldehyde	0.24 (0.2-0.28)	0.34 (0.28-0.41)
Bermuda	Acute myeloid leukemia	Benzene	1.2 (0.35-2.03)	0.32 (0.26-0.4)
Bermuda	Acute myeloid leukemia	Formaldehyde	0.3 (0.25-0.37)	0.35 (0.26-0.45)
Bermuda	Acute lymphoid leukemia	Benzene	0.99 (0.3-1.68)	0.32 (0.24-0.43)
Bermuda	Acute lymphoid leukemia	Formaldehyde	0.25 (0.19-0.31)	0.23 (0.17-0.3)
Bermuda	Chronic myeloid leukemia	Benzene	1.03 (0.31-1.73)	0.23 (0.19-0.28)
Bermuda	Chronic myeloid leukemia	Formaldehyde	0.28 (0.22-0.35)	0.03 (0.02-0.03)
Bermuda	Chronic lymphoid leukemia	Benzene	0.54 (0.16-0.91)	0.21 (0.17-0.26)
Bermuda	Chronic lymphoid leukemia	Formaldehyde	0.15 (0.11-0.18)	0.04 (0.03-0.05)
Bermuda	Other leukemia	Benzene	0.84 (0.25-1.4)	0.06 (0.04-0.07)
Bermuda	Other leukemia	Formaldehyde	0.21 (0.17-0.25)	0.41 (0.29-0.56)
Bhutan	All leukemia	Benzene	0.49 (0.13-0.91)	0.37 (0.28-0.51)
Bhutan	All leukemia	Formaldehyde	0.15 (0.09-0.21)	0.35 (0.26-0.45)
Bhutan	Acute myeloid leukemia	Benzene	0.57 (0.16-1.03)	0.04 (0.03-0.05)
Bhutan	Acute myeloid leukemia	Formaldehyde	0.17 (0.11-0.24)	0.24 (0.16-0.32)
Bhutan	Acute lymphoid leukemia	Benzene	0.36 (0.08-0.73)	0.21 (0.16-0.27)
Bhutan	Acute lymphoid leukemia	Formaldehyde	0.11 (0.04-0.19)	0.37 (0.28-0.49)
Bhutan	Chronic myeloid leukemia	Benzene	0.68 (0.18-1.25)	0.39 (0.32-0.48)
Bhutan	Chronic myeloid leukemia	Formaldehyde	0.21 (0.11-0.29)	0.28 (0.2-0.38)
Bhutan	Chronic lymphoid leukemia	Benzene	0.29 (0.08-0.49)	0.3 (0.24-0.39)
Bhutan	Chronic lymphoid leukemia	Formaldehyde	0.09 (0.07-0.12)	0.28 (0.2-0.38)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
<b>Bhutan</b>	<b>Other leukemia</b>	Benzene	0.41 (0.1-0.8)	0.37 (0.27-0.48)
<b>Bhutan</b>	<b>Other leukemia</b>	Formaldehyde	0.12 (0.06-0.2)	0.03 (0.02-0.04)
<b>Bolivia (Plurinational State of)</b>	<b>All leukemia</b>	Benzene	0.5 (0.15-0.86)	0.22 (0.15-0.32)
<b>Bolivia (Plurinational State of)</b>	<b>All leukemia</b>	Formaldehyde	0.17 (0.13-0.21)	0.31 (0.21-0.42)
<b>Bolivia (Plurinational State of)</b>	<b>Acute myeloid leukemia</b>	Benzene	0.57 (0.17-1.01)	0.22 (0.17-0.28)
<b>Bolivia (Plurinational State of)</b>	<b>Acute myeloid leukemia</b>	Formaldehyde	0.19 (0.14-0.25)	0.04 (0.03-0.05)
<b>Bolivia (Plurinational State of)</b>	<b>Acute lymphoid leukemia</b>	Benzene	0.31 (0.09-0.58)	0.02 (0.01-0.02)
<b>Bolivia (Plurinational State of)</b>	<b>Acute lymphoid leukemia</b>	Formaldehyde	0.1 (0.07-0.15)	0.19 (0.14-0.25)
<b>Bolivia (Plurinational State of)</b>	<b>Chronic myeloid leukemia</b>	Benzene	0.74 (0.21-1.28)	0.38 (0.27-0.53)
<b>Bolivia (Plurinational State of)</b>	<b>Chronic myeloid leukemia</b>	Formaldehyde	0.25 (0.18-0.32)	0.22 (0.17-0.27)
<b>Bolivia (Plurinational State of)</b>	<b>Chronic lymphoid leukemia</b>	Benzene	0.53 (0.15-0.89)	0.03 (0.03-0.04)
<b>Bolivia (Plurinational State of)</b>	<b>Chronic lymphoid leukemia</b>	Formaldehyde	0.18 (0.14-0.22)	0.55 (0.38-0.77)
<b>Bolivia (Plurinational State of)</b>	<b>Other leukemia</b>	Benzene	0.58 (0.16-1.01)	0.01 (0.01-0.02)
<b>Bolivia (Plurinational State of)</b>	<b>Other leukemia</b>	Formaldehyde	0.19 (0.15-0.25)	0.04 (0.03-0.05)
<b>Bosnia and Herzegovina</b>	<b>All leukemia</b>	Benzene	0.23 (0.04-0.42)	0.29 (0.24-0.35)
<b>Bosnia and Herzegovina</b>	<b>All leukemia</b>	Formaldehyde	0.04 (0.03-0.04)	0.23 (0.18-0.29)
<b>Bosnia and Herzegovina</b>	<b>Acute myeloid leukemia</b>	Benzene	0.28 (0.05-0.51)	0.34 (0.28-0.42)
<b>Bosnia and Herzegovina</b>	<b>Acute myeloid leukemia</b>	Formaldehyde	0.04 (0.03-0.05)	0.26 (0.18-0.36)
<b>Bosnia and Herzegovina</b>	<b>Acute lymphoid leukemia</b>	Benzene	0.26 (0.05-0.49)	0.4 (0.28-0.55)
<b>Bosnia and Herzegovina</b>	<b>Acute lymphoid leukemia</b>	Formaldehyde	0.04 (0.03-0.05)	0.34 (0.27-0.42)
<b>Bosnia and Herzegovina</b>	<b>Chronic myeloid leukemia</b>	Benzene	0.24 (0.04-0.45)	0.23 (0.15-0.32)
<b>Bosnia and Herzegovina</b>	<b>Chronic myeloid leukemia</b>	Formaldehyde	0.04 (0.03-0.05)	0.34 (0.25-0.45)
<b>Bosnia and Herzegovina</b>	<b>Chronic lymphoid leukemia</b>	Benzene	0.13 (0.02-0.24)	0.04 (0.04-0.05)
<b>Bosnia and Herzegovina</b>	<b>Chronic lymphoid leukemia</b>	Formaldehyde	0.02 (0.01-0.03)	0.05 (0.04-0.06)
<b>Bosnia and Herzegovina</b>	<b>Other leukemia</b>	Benzene	0.19 (0.03-0.35)	0.29 (0.23-0.36)
<b>Bosnia and Herzegovina</b>	<b>Other leukemia</b>	Formaldehyde	0.03 (0.02-0.04)	0.3 (0.24-0.36)
<b>Botswana</b>	<b>All leukemia</b>	Benzene	0.58 (0.17-0.99)	0.21 (0.17-0.27)
<b>Botswana</b>	<b>All leukemia</b>	Formaldehyde	0.16 (0.13-0.2)	0.21 (0.16-0.29)
<b>Botswana</b>	<b>Acute myeloid leukemia</b>	Benzene	0.88 (0.27-1.53)	0.04 (0.03-0.05)
<b>Botswana</b>	<b>Acute myeloid leukemia</b>	Formaldehyde	0.24 (0.18-0.32)	0.04 (0.03-0.05)
<b>Botswana</b>	<b>Acute lymphoid leukemia</b>	Benzene	0.57 (0.17-1.02)	0.02 (0.02-0.02)
<b>Botswana</b>	<b>Acute lymphoid leukemia</b>	Formaldehyde	0.16 (0.11-0.22)	0.3 (0.24-0.36)
<b>Botswana</b>	<b>Chronic myeloid leukemia</b>	Benzene	0.77 (0.23-1.36)	0.03 (0.02-0.04)
<b>Botswana</b>	<b>Chronic myeloid leukemia</b>	Formaldehyde	0.21 (0.15-0.29)	0.2 (0.15-0.26)
<b>Botswana</b>	<b>Chronic lymphoid leukemia</b>	Benzene	0.38 (0.11-0.65)	0.27 (0.22-0.34)
<b>Botswana</b>	<b>Chronic lymphoid leukemia</b>	Formaldehyde	0.1 (0.08-0.14)	0.52 (0.39-0.64)
<b>Botswana</b>	<b>Other leukemia</b>	Benzene	0.6 (0.18-1.02)	0.26 (0.19-0.35)
<b>Botswana</b>	<b>Other leukemia</b>	Formaldehyde	0.17 (0.13-0.21)	0.37 (0.28-0.46)
<b>Brazil</b>	<b>All leukemia</b>	Benzene	0.69 (0.2-1.12)	0.25 (0.2-0.31)
<b>Brazil</b>	<b>All leukemia</b>	Formaldehyde	0.25 (0.21-0.3)	0.42 (0.31-0.56)
<b>Brazil</b>	<b>Acute myeloid leukemia</b>	Benzene	0.86 (0.25-1.41)	0.03 (0.02-0.04)
<b>Brazil</b>	<b>Acute myeloid leukemia</b>	Formaldehyde	0.31 (0.25-0.37)	0.2 (0.15-0.26)
<b>Brazil</b>	<b>Acute lymphoid leukemia</b>	Benzene	0.44 (0.13-0.73)	0.23 (0.15-0.34)
<b>Brazil</b>	<b>Acute lymphoid leukemia</b>	Formaldehyde	0.17 (0.13-0.21)	0.43 (0.3-0.59)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Brazil	Chronic myeloid leukemia	Benzene	1 (0.29-1.65)	0.21 (0.16-0.29)
Brazil	Chronic myeloid leukemia	Formaldehyde	0.37 (0.31-0.45)	0.04 (0.03-0.05)
Brazil	Chronic lymphoid leukemia	Benzene	0.37 (0.11-0.62)	0.03 (0.02-0.04)
Brazil	Chronic lymphoid leukemia	Formaldehyde	0.14 (0.12-0.17)	0.34 (0.26-0.44)
Brazil	Other leukemia	Benzene	0.64 (0.18-1.06)	0.43 (0.28-0.59)
Brazil	Other leukemia	Formaldehyde	0.23 (0.19-0.28)	0.42 (0.3-0.56)
Brunei Darussalam	All leukemia	Benzene	0.91 (0.17-1.64)	0.3 (0.23-0.39)
Brunei Darussalam	All leukemia	Formaldehyde	0.08 (0.06-0.1)	0.31 (0.23-0.43)
Brunei Darussalam	Acute myeloid leukemia	Benzene	0.89 (0.16-1.6)	0.03 (0.02-0.04)
Brunei Darussalam	Acute myeloid leukemia	Formaldehyde	0.08 (0.06-0.1)	0.23 (0.16-0.31)
Brunei Darussalam	Acute lymphoid leukemia	Benzene	0.49 (0.08-0.92)	0.21 (0.13-0.32)
Brunei Darussalam	Acute lymphoid leukemia	Formaldehyde	0.04 (0.03-0.06)	0.23 (0.18-0.28)
Brunei Darussalam	Chronic myeloid leukemia	Benzene	1.2 (0.23-2.13)	0.42 (0.35-0.51)
Brunei Darussalam	Chronic myeloid leukemia	Formaldehyde	0.1 (0.08-0.13)	0.33 (0.21-0.45)
Brunei Darussalam	Chronic lymphoid leukemia	Benzene	0.52 (0.1-0.95)	0.03 (0.02-0.04)
Brunei Darussalam	Chronic lymphoid leukemia	Formaldehyde	0.04 (0.03-0.06)	0.27 (0.2-0.39)
Brunei Darussalam	Other leukemia	Benzene	0.75 (0.14-1.39)	0.03 (0.02-0.04)
Brunei Darussalam	Other leukemia	Formaldehyde	0.06 (0.05-0.09)	0.18 (0.14-0.23)
Bulgaria	All leukemia	Benzene	0.32 (0.06-0.58)	0.24 (0.14-0.33)
Bulgaria	All leukemia	Formaldehyde	0.05 (0.05-0.06)	0.26 (0.2-0.33)
Bulgaria	Acute myeloid leukemia	Benzene	0.35 (0.07-0.63)	0.15 (0.1-0.21)
Bulgaria	Acute myeloid leukemia	Formaldehyde	0.06 (0.05-0.07)	0.47 (0.34-0.64)
Bulgaria	Acute lymphoid leukemia	Benzene	0.32 (0.06-0.58)	0.3 (0.24-0.38)
Bulgaria	Acute lymphoid leukemia	Formaldehyde	0.05 (0.04-0.07)	0.04 (0.03-0.04)
Bulgaria	Chronic myeloid leukemia	Benzene	0.33 (0.06-0.6)	0.05 (0.04-0.06)
Bulgaria	Chronic myeloid leukemia	Formaldehyde	0.06 (0.04-0.07)	0.33 (0.27-0.4)
Bulgaria	Chronic lymphoid leukemia	Benzene	0.16 (0.03-0.29)	0.32 (0.2-0.47)
Bulgaria	Chronic lymphoid leukemia	Formaldehyde	0.03 (0.02-0.04)	0.27 (0.2-0.35)
Bulgaria	Other leukemia	Benzene	0.35 (0.06-0.64)	0.19 (0.14-0.25)
Bulgaria	Other leukemia	Formaldehyde	0.06 (0.05-0.07)	0.05 (0.04-0.06)
Burkina Faso	All leukemia	Benzene	0.28 (0.08-0.5)	0.33 (0.24-0.43)
Burkina Faso	All leukemia	Formaldehyde	0.09 (0.07-0.13)	0.04 (0.03-0.05)
Burkina Faso	Acute myeloid leukemia	Benzene	0.25 (0.06-0.52)	0.27 (0.18-0.4)
Burkina Faso	Acute myeloid leukemia	Formaldehyde	0.08 (0.04-0.13)	0.38 (0.28-0.5)
Burkina Faso	Acute lymphoid leukemia	Benzene	0.19 (0.05-0.38)	0.26 (0.2-0.34)
Burkina Faso	Acute lymphoid leukemia	Formaldehyde	0.06 (0.03-0.11)	0.13 (0.1-0.18)
Burkina Faso	Chronic myeloid leukemia	Benzene	0.61 (0.19-1.05)	0.34 (0.27-0.42)
Burkina Faso	Chronic myeloid leukemia	Formaldehyde	0.21 (0.15-0.27)	0.23 (0.16-0.34)
Burkina Faso	Chronic lymphoid leukemia	Benzene	0.15 (0.04-0.25)	0.35 (0.28-0.42)
Burkina Faso	Chronic lymphoid leukemia	Formaldehyde	0.05 (0.04-0.07)	0.42 (0.33-0.53)
Burkina Faso	Other leukemia	Benzene	0.27 (0.08-0.49)	0.4 (0.33-0.48)
Burkina Faso	Other leukemia	Formaldehyde	0.09 (0.06-0.13)	0.03 (0.03-0.04)
Burundi	All leukemia	Benzene	0.33 (0.09-0.58)	0.03 (0.02-0.04)
Burundi	All leukemia	Formaldehyde	0.13 (0.09-0.18)	0.02 (0.02-0.03)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Burundi	Acute myeloid leukemia	Benzene	0.44 (0.12-0.85)	0.6 (0.45-0.79)
Burundi	Acute myeloid leukemia	Formaldehyde	0.17 (0.09-0.26)	0.07 (0.05-0.08)
Burundi	Acute lymphoid leukemia	Benzene	0.18 (0.04-0.39)	0.03 (0.02-0.04)
Burundi	Acute lymphoid leukemia	Formaldehyde	0.07 (0.03-0.12)	0.05 (0.04-0.06)
Burundi	Chronic myeloid leukemia	Benzene	0.55 (0.15-1.07)	0.04 (0.04-0.05)
Burundi	Chronic myeloid leukemia	Formaldehyde	0.22 (0.11-0.33)	0.25 (0.18-0.34)
Burundi	Chronic lymphoid leukemia	Benzene	0.28 (0.08-0.47)	0.27 (0.18-0.34)
Burundi	Chronic lymphoid leukemia	Formaldehyde	0.11 (0.08-0.14)	0.25 (0.21-0.31)
Burundi	Other leukemia	Benzene	0.29 (0.08-0.53)	0.26 (0.22-0.32)
Burundi	Other leukemia	Formaldehyde	0.11 (0.07-0.17)	0.17 (0.12-0.22)
Cabo Verde	All leukemia	Benzene	0.32 (0.09-0.55)	0.03 (0.02-0.04)
Cabo Verde	All leukemia	Formaldehyde	0.11 (0.08-0.15)	0.22 (0.16-0.3)
Cabo Verde	Acute myeloid leukemia	Benzene	0.3 (0.09-0.52)	0.45 (0.33-0.6)
Cabo Verde	Acute myeloid leukemia	Formaldehyde	0.1 (0.07-0.14)	0.31 (0.2-0.47)
Cabo Verde	Acute lymphoid leukemia	Benzene	0.25 (0.07-0.46)	0.04 (0.03-0.05)
Cabo Verde	Acute lymphoid leukemia	Formaldehyde	0.09 (0.05-0.13)	0.51 (0.41-0.65)
Cabo Verde	Chronic myeloid leukemia	Benzene	0.75 (0.23-1.3)	0.28 (0.2-0.39)
Cabo Verde	Chronic myeloid leukemia	Formaldehyde	0.26 (0.16-0.38)	0.07 (0.06-0.08)
Cabo Verde	Chronic lymphoid leukemia	Benzene	0.13 (0.04-0.23)	0.04 (0.03-0.06)
Cabo Verde	Chronic lymphoid leukemia	Formaldehyde	0.05 (0.03-0.06)	0.04 (0.03-0.05)
Cabo Verde	Other leukemia	Benzene	0.31 (0.09-0.52)	0.63 (0.34-0.98)
Cabo Verde	Other leukemia	Formaldehyde	0.11 (0.08-0.15)	0.25 (0.15-0.35)
Cambodia	All leukemia	Benzene	0.43 (0.12-0.76)	0.23 (0.17-0.31)
Cambodia	All leukemia	Formaldehyde	0.16 (0.11-0.21)	0.18 (0.08-0.29)
Cambodia	Acute myeloid leukemia	Benzene	0.55 (0.16-0.98)	0.02 (0.02-0.03)
Cambodia	Acute myeloid leukemia	Formaldehyde	0.2 (0.14-0.28)	0.32 (0.26-0.41)
Cambodia	Acute lymphoid leukemia	Benzene	0.27 (0.07-0.52)	0.26 (0.19-0.35)
Cambodia	Acute lymphoid leukemia	Formaldehyde	0.1 (0.06-0.16)	0.29 (0.23-0.35)
Cambodia	Chronic myeloid leukemia	Benzene	0.6 (0.18-1.06)	0.04 (0.03-0.05)
Cambodia	Chronic myeloid leukemia	Formaldehyde	0.22 (0.15-0.32)	0.04 (0.03-0.05)
Cambodia	Chronic lymphoid leukemia	Benzene	0.41 (0.13-0.71)	0.16 (0.11-0.21)
Cambodia	Chronic lymphoid leukemia	Formaldehyde	0.15 (0.11-0.2)	0.25 (0.2-0.31)
Cambodia	Other leukemia	Benzene	0.44 (0.13-0.77)	0.17 (0.13-0.23)
Cambodia	Other leukemia	Formaldehyde	0.17 (0.11-0.22)	0.34 (0.27-0.44)
Cameroon	All leukemia	Benzene	0.47 (0.13-0.8)	0.25 (0.15-0.35)
Cameroon	All leukemia	Formaldehyde	0.16 (0.13-0.2)	0.41 (0.3-0.54)
Cameroon	Acute myeloid leukemia	Benzene	0.48 (0.13-0.85)	0.24 (0.17-0.33)
Cameroon	Acute myeloid leukemia	Formaldehyde	0.17 (0.11-0.23)	0.21 (0.16-0.29)
Cameroon	Acute lymphoid leukemia	Benzene	0.35 (0.09-0.67)	0.3 (0.24-0.37)
Cameroon	Acute lymphoid leukemia	Formaldehyde	0.12 (0.07-0.19)	0.18 (0.14-0.23)
Cameroon	Chronic myeloid leukemia	Benzene	0.94 (0.28-1.59)	0.16 (0.12-0.2)
Cameroon	Chronic myeloid leukemia	Formaldehyde	0.33 (0.24-0.44)	0.25 (0.19-0.32)
Cameroon	Chronic lymphoid leukemia	Benzene	0.23 (0.07-0.4)	0.27 (0.2-0.36)
Cameroon	Chronic lymphoid leukemia	Formaldehyde	0.08 (0.06-0.11)	0.25 (0.16-0.35)



Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Cameroon	Other leukemia	Benzene	0.45 (0.13-0.77)	0.04 (0.04-0.05)
Cameroon	Other leukemia	Formaldehyde	0.16 (0.12-0.2)	0.52 (0.36-0.74)
Canada	All leukemia	Benzene	0.36 (0.07-0.64)	0.04 (0.03-0.04)
Canada	All leukemia	Formaldehyde	0.04 (0.04-0.05)	0.27 (0.16-0.39)
Canada	Acute myeloid leukemia	Benzene	0.45 (0.09-0.79)	0.04 (0.03-0.05)
Canada	Acute myeloid leukemia	Formaldehyde	0.05 (0.05-0.06)	0.17 (0.13-0.22)
Canada	Acute lymphoid leukemia	Benzene	0.57 (0.11-1.03)	0.23 (0.18-0.29)
Canada	Acute lymphoid leukemia	Formaldehyde	0.07 (0.06-0.09)	0.29 (0.23-0.36)
Canada	Chronic myeloid leukemia	Benzene	0.46 (0.09-0.82)	0.31 (0.23-0.43)
Canada	Chronic myeloid leukemia	Formaldehyde	0.06 (0.05-0.07)	0.29 (0.24-0.35)
Canada	Chronic lymphoid leukemia	Benzene	0.19 (0.04-0.33)	0.34 (0.25-0.44)
Canada	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.02-0.03)	0.2 (0.13-0.3)
Canada	Other leukemia	Benzene	0.31 (0.06-0.55)	0.36 (0.26-0.47)
Canada	Other leukemia	Formaldehyde	0.04 (0.03-0.05)	0.29 (0.2-0.4)
Central African Republic	All leukemia	Benzene	0.38 (0.11-0.67)	0.54 (0.16-0.94)
Central African Republic	All leukemia	Formaldehyde	0.13 (0.09-0.17)	0.2 (0.04-0.37)
Central African Republic	Acute myeloid leukemia	Benzene	0.49 (0.13-0.87)	0.19 (0.06-0.32)
Central African Republic	Acute myeloid leukemia	Formaldehyde	0.17 (0.1-0.23)	0.78 (0.24-1.29)
Central African Republic	Acute lymphoid leukemia	Benzene	0.23 (0.06-0.46)	0.2 (0.04-0.37)
Central African Republic	Acute lymphoid leukemia	Formaldehyde	0.08 (0.04-0.13)	0.55 (0.16-0.94)
Central African Republic	Chronic myeloid leukemia	Benzene	0.53 (0.15-0.95)	0.66 (0.2-1.11)
Central African Republic	Chronic myeloid leukemia	Formaldehyde	0.18 (0.12-0.25)	0.36 (0.1-0.6)
Central African Republic	Chronic lymphoid leukemia	Benzene	0.29 (0.09-0.51)	0.4 (0.12-0.68)
Central African Republic	Chronic lymphoid leukemia	Formaldehyde	0.1 (0.07-0.13)	0.17 (0.03-0.31)
Central African Republic	Other leukemia	Benzene	0.38 (0.11-0.69)	0.16 (0.03-0.28)
Central African Republic	Other leukemia	Formaldehyde	0.13 (0.08-0.18)	0.6 (0.18-1.03)
Chad	All leukemia	Benzene	0.28 (0.08-0.51)	0.74 (0.22-1.26)
Chad	All leukemia	Formaldehyde	0.09 (0.06-0.13)	0.56 (0.17-0.94)
Chad	Acute myeloid leukemia	Benzene	0.26 (0.06-0.53)	0.26 (0.07-0.43)
Chad	Acute myeloid leukemia	Formaldehyde	0.09 (0.04-0.14)	0.44 (0.13-0.74)
Chad	Acute lymphoid leukemia	Benzene	0.19 (0.05-0.4)	0.19 (0.04-0.34)
Chad	Acute lymphoid leukemia	Formaldehyde	0.07 (0.03-0.12)	0.14 (0.03-0.25)
Chad	Chronic myeloid leukemia	Benzene	0.63 (0.18-1.07)	0.78 (0.23-1.31)
Chad	Chronic myeloid leukemia	Formaldehyde	0.21 (0.15-0.29)	0.3 (0.09-0.52)
Chad	Chronic lymphoid leukemia	Benzene	0.14 (0.04-0.24)	0.44 (0.13-0.74)
Chad	Chronic lymphoid leukemia	Formaldehyde	0.05 (0.03-0.06)	0.31 (0.09-0.52)
Chad	Other leukemia	Benzene	0.28 (0.08-0.49)	0.63 (0.18-1.06)
Chad	Other leukemia	Formaldehyde	0.09 (0.06-0.13)	0.15 (0.03-0.27)
Chile	All leukemia	Benzene	0.66 (0.19-1.09)	0.45 (0.13-0.78)
Chile	All leukemia	Formaldehyde	0.25 (0.21-0.3)	0.36 (0.1-0.6)
Chile	Acute myeloid leukemia	Benzene	0.74 (0.21-1.23)	0.69 (0.12-1.25)
Chile	Acute myeloid leukemia	Formaldehyde	0.28 (0.23-0.33)	0.21 (0.04-0.39)
Chile	Acute lymphoid leukemia	Benzene	0.57 (0.17-0.97)	0.17 (0.05-0.29)
Chile	Acute lymphoid leukemia	Formaldehyde	0.22 (0.18-0.27)	0.43 (0.12-0.72)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Chile	Chronic myeloid leukemia	Benzene	0.82 (0.24-1.37)	0.17 (0.05-0.29)
Chile	Chronic myeloid leukemia	Formaldehyde	0.32 (0.26-0.39)	0.46 (0.14-0.8)
Chile	Chronic lymphoid leukemia	Benzene	0.31 (0.09-0.53)	0.32 (0.09-0.55)
Chile	Chronic lymphoid leukemia	Formaldehyde	0.12 (0.1-0.15)	0.17 (0.03-0.31)
Chile	Other leukemia	Benzene	0.65 (0.19-1.06)	0.33 (0.1-0.58)
Chile	Other leukemia	Formaldehyde	0.25 (0.2-0.3)	0.2 (0.06-0.34)
China	All leukemia	Benzene	0.53 (0.16-0.88)	0.3 (0.09-0.5)
China	All leukemia	Formaldehyde	0.26 (0.21-0.32)	0.6 (0.17-1.01)
China	Acute myeloid leukemia	Benzene	0.57 (0.16-0.95)	0.49 (0.15-0.8)
China	Acute myeloid leukemia	Formaldehyde	0.29 (0.24-0.35)	0.36 (0.1-0.63)
China	Acute lymphoid leukemia	Benzene	0.43 (0.13-0.75)	0.46 (0.13-0.8)
China	Acute lymphoid leukemia	Formaldehyde	0.21 (0.16-0.26)	0.73 (0.21-1.24)
China	Chronic myeloid leukemia	Benzene	0.66 (0.19-1.09)	0.3 (0.09-0.51)
China	Chronic myeloid leukemia	Formaldehyde	0.34 (0.28-0.41)	0.13 (0.02-0.23)
China	Chronic lymphoid leukemia	Benzene	0.72 (0.21-1.2)	0.4 (0.12-0.68)
China	Chronic lymphoid leukemia	Formaldehyde	0.34 (0.28-0.41)	0.21 (0.04-0.38)
China	Other leukemia	Benzene	0.54 (0.16-0.89)	0.19 (0.04-0.34)
China	Other leukemia	Formaldehyde	0.26 (0.21-0.32)	0.27 (0.08-0.45)
Colombia	All leukemia	Benzene	0.72 (0.21-1.2)	0.75 (0.22-1.29)
Colombia	All leukemia	Formaldehyde	0.27 (0.22-0.32)	0.4 (0.12-0.71)
Colombia	Acute myeloid leukemia	Benzene	0.85 (0.25-1.41)	0.2 (0.04-0.36)
Colombia	Acute myeloid leukemia	Formaldehyde	0.32 (0.26-0.38)	0.35 (0.1-0.59)
Colombia	Acute lymphoid leukemia	Benzene	0.56 (0.17-0.94)	0.34 (0.09-0.56)
Colombia	Acute lymphoid leukemia	Formaldehyde	0.21 (0.16-0.26)	0.56 (0.16-0.95)
Colombia	Chronic myeloid leukemia	Benzene	0.94 (0.28-1.58)	0.57 (0.17-0.97)
Colombia	Chronic myeloid leukemia	Formaldehyde	0.36 (0.29-0.43)	0.57 (0.16-0.97)
Colombia	Chronic lymphoid leukemia	Benzene	0.48 (0.14-0.8)	0.51 (0.15-0.86)
Colombia	Chronic lymphoid leukemia	Formaldehyde	0.18 (0.15-0.21)	0.5 (0.15-0.89)
Colombia	Other leukemia	Benzene	0.77 (0.22-1.28)	0.42 (0.12-0.72)
Colombia	Other leukemia	Formaldehyde	0.29 (0.24-0.35)	0.16 (0.03-0.29)
Comoros	All leukemia	Benzene	0.26 (0.07-0.47)	0.23 (0.07-0.41)
Comoros	All leukemia	Formaldehyde	0.1 (0.06-0.14)	0.38 (0.11-0.64)
Comoros	Acute myeloid leukemia	Benzene	0.35 (0.1-0.74)	0.63 (0.18-1.06)
Comoros	Acute myeloid leukemia	Formaldehyde	0.14 (0.07-0.23)	0.18 (0.03-0.33)
Comoros	Acute lymphoid leukemia	Benzene	0.17 (0.04-0.36)	0.12 (0.02-0.23)
Comoros	Acute lymphoid leukemia	Formaldehyde	0.07 (0.03-0.12)	0.22 (0.06-0.38)
Comoros	Chronic myeloid leukemia	Benzene	0.46 (0.12-0.9)	0.28 (0.08-0.46)
Comoros	Chronic myeloid leukemia	Formaldehyde	0.18 (0.09-0.27)	0.39 (0.11-0.65)
Comoros	Chronic lymphoid leukemia	Benzene	0.17 (0.05-0.3)	0.18 (0.03-0.32)
Comoros	Chronic lymphoid leukemia	Formaldehyde	0.07 (0.04-0.09)	0.29 (0.09-0.49)
Comoros	Other leukemia	Benzene	0.23 (0.06-0.43)	0.11 (0.02-0.19)
Comoros	Other leukemia	Formaldehyde	0.09 (0.05-0.14)	0.31 (0.06-0.57)
Congo	All leukemia	Benzene	0.43 (0.12-0.74)	0.65 (0.18-1.09)
Congo	All leukemia	Formaldehyde	0.14 (0.11-0.19)	0.98 (0.3-1.61)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Congo	Acute myeloid leukemia	Benzene	0.53 (0.15-0.94)	0.72 (0.21-1.22)
Congo	Acute myeloid leukemia	Formaldehyde	0.18 (0.12-0.26)	0.21 (0.06-0.36)
Congo	Acute lymphoid leukemia	Benzene	0.28 (0.08-0.51)	0.25 (0.07-0.41)
Congo	Acute lymphoid leukemia	Formaldehyde	0.1 (0.06-0.15)	0.56 (0.17-0.94)
Congo	Chronic myeloid leukemia	Benzene	0.6 (0.19-1.07)	0.41 (0.12-0.71)
Congo	Chronic myeloid leukemia	Formaldehyde	0.2 (0.14-0.28)	0.44 (0.13-0.75)
Congo	Chronic lymphoid leukemia	Benzene	0.27 (0.08-0.46)	0.2 (0.04-0.35)
Congo	Chronic lymphoid leukemia	Formaldehyde	0.09 (0.06-0.11)	0.27 (0.05-0.5)
Congo	Other leukemia	Benzene	0.42 (0.12-0.73)	0.21 (0.06-0.34)
Congo	Other leukemia	Formaldehyde	0.14 (0.1-0.19)	0.52 (0.16-0.89)
Cook Islands	All leukemia	Benzene	0.83 (0.24-1.4)	0.41 (0.12-0.68)
Cook Islands	All leukemia	Formaldehyde	0.27 (0.22-0.34)	0.5 (0.15-0.84)
Cook Islands	Acute myeloid leukemia	Benzene	1.04 (0.31-1.76)	0.18 (0.03-0.33)
Cook Islands	Acute myeloid leukemia	Formaldehyde	0.34 (0.26-0.46)	0.21 (0.04-0.37)
Cook Islands	Acute lymphoid leukemia	Benzene	0.89 (0.26-1.53)	0.11 (0.02-0.21)
Cook Islands	Acute lymphoid leukemia	Formaldehyde	0.29 (0.21-0.39)	0.47 (0.13-0.79)
Cook Islands	Chronic myeloid leukemia	Benzene	0.91 (0.26-1.54)	0.19 (0.04-0.34)
Cook Islands	Chronic myeloid leukemia	Formaldehyde	0.31 (0.23-0.41)	0.53 (0.16-0.88)
Cook Islands	Chronic lymphoid leukemia	Benzene	0.61 (0.18-1.02)	0.6 (0.17-1)
Cook Islands	Chronic lymphoid leukemia	Formaldehyde	0.21 (0.16-0.26)	0.66 (0.19-1.13)
Cook Islands	Other leukemia	Benzene	0.66 (0.19-1.14)	0.59 (0.17-1.02)
Cook Islands	Other leukemia	Formaldehyde	0.21 (0.17-0.27)	0.77 (0.22-1.3)
Costa Rica	All leukemia	Benzene	0.62 (0.19-1.03)	0.68 (0.2-1.13)
Costa Rica	All leukemia	Formaldehyde	0.25 (0.21-0.3)	0.55 (0.16-0.95)
Costa Rica	Acute myeloid leukemia	Benzene	0.71 (0.21-1.19)	0.15 (0.03-0.28)
Costa Rica	Acute myeloid leukemia	Formaldehyde	0.28 (0.23-0.35)	0.41 (0.12-0.7)
Costa Rica	Acute lymphoid leukemia	Benzene	0.62 (0.19-1.04)	0.33 (0.09-0.56)
Costa Rica	Acute lymphoid leukemia	Formaldehyde	0.25 (0.2-0.31)	0.28 (0.08-0.49)
Costa Rica	Chronic myeloid leukemia	Benzene	0.64 (0.19-1.04)	0.56 (0.16-0.95)
Costa Rica	Chronic myeloid leukemia	Formaldehyde	0.26 (0.21-0.31)	0.15 (0.03-0.27)
Costa Rica	Chronic lymphoid leukemia	Benzene	0.27 (0.08-0.46)	0.18 (0.03-0.33)
Costa Rica	Chronic lymphoid leukemia	Formaldehyde	0.11 (0.09-0.14)	0.45 (0.13-0.76)
Costa Rica	Other leukemia	Benzene	0.59 (0.17-0.99)	0.57 (0.17-0.93)
Costa Rica	Other leukemia	Formaldehyde	0.24 (0.19-0.3)	0.37 (0.11-0.64)
Croatia	All leukemia	Benzene	0.22 (0.04-0.39)	0.58 (0.17-1.01)
Croatia	All leukemia	Formaldehyde	0.03 (0.02-0.03)	0.29 (0.08-0.48)
Croatia	Acute myeloid leukemia	Benzene	0.35 (0.06-0.65)	0.18 (0.04-0.34)
Croatia	Acute myeloid leukemia	Formaldehyde	0.05 (0.04-0.06)	0.97 (0.29-1.67)
Croatia	Acute lymphoid leukemia	Benzene	0.33 (0.06-0.62)	0.15 (0.04-0.26)
Croatia	Acute lymphoid leukemia	Formaldehyde	0.05 (0.04-0.06)	0.52 (0.15-0.86)
Croatia	Chronic myeloid leukemia	Benzene	0.3 (0.06-0.55)	0.48 (0.14-0.81)
Croatia	Chronic myeloid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.84 (0.25-1.45)
Croatia	Chronic lymphoid leukemia	Benzene	0.13 (0.02-0.24)	0.17 (0.03-0.32)
Croatia	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.01-0.02)	0.8 (0.23-1.38)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Croatia	Other leukemia	Benzene	0.21 (0.04-0.39)	0.2 (0.04-0.36)
Croatia	Other leukemia	Formaldehyde	0.03 (0.02-0.03)	0.43 (0.13-0.73)
Cuba	All leukemia	Benzene	0.63 (0.19-1.04)	0.28 (0.08-0.49)
Cuba	All leukemia	Formaldehyde	0.23 (0.19-0.28)	0.39 (0.12-0.67)
Cuba	Acute myeloid leukemia	Benzene	0.83 (0.24-1.37)	0.28 (0.08-0.48)
Cuba	Acute myeloid leukemia	Formaldehyde	0.3 (0.24-0.36)	1.31 (0.37-2.23)
Cuba	Acute lymphoid leukemia	Benzene	0.57 (0.17-0.95)	0.33 (0.09-0.57)
Cuba	Acute lymphoid leukemia	Formaldehyde	0.21 (0.16-0.26)	0.23 (0.04-0.42)
Cuba	Chronic myeloid leukemia	Benzene	0.68 (0.2-1.12)	0.22 (0.04-0.39)
Cuba	Chronic myeloid leukemia	Formaldehyde	0.25 (0.2-0.3)	0.69 (0.2-1.16)
Cuba	Chronic lymphoid leukemia	Benzene	0.32 (0.09-0.53)	0.25 (0.07-0.42)
Cuba	Chronic lymphoid leukemia	Formaldehyde	0.12 (0.1-0.14)	0.36 (0.1-0.6)
Cuba	Other leukemia	Benzene	0.57 (0.17-0.96)	0.59 (0.17-1)
Cuba	Other leukemia	Formaldehyde	0.21 (0.17-0.25)	0.2 (0.04-0.36)
Cyprus	All leukemia	Benzene	0.3 (0.06-0.53)	0.87 (0.25-1.45)
Cyprus	All leukemia	Formaldehyde	0.04 (0.03-0.05)	0.25 (0.05-0.43)
Cyprus	Acute myeloid leukemia	Benzene	0.36 (0.06-0.64)	0.74 (0.2-1.29)
Cyprus	Acute myeloid leukemia	Formaldehyde	0.04 (0.03-0.06)	0.26 (0.08-0.45)
Cyprus	Acute lymphoid leukemia	Benzene	0.43 (0.08-0.79)	0.9 (0.25-1.5)
Cyprus	Acute lymphoid leukemia	Formaldehyde	0.05 (0.04-0.07)	0.39 (0.11-0.67)
Cyprus	Chronic myeloid leukemia	Benzene	0.36 (0.07-0.66)	0.43 (0.13-0.73)
Cyprus	Chronic myeloid leukemia	Formaldehyde	0.04 (0.03-0.06)	0.77 (0.22-1.37)
Cyprus	Chronic lymphoid leukemia	Benzene	0.17 (0.03-0.31)	0.48 (0.14-0.82)
Cyprus	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.02-0.03)	0.92 (0.27-1.56)
Cyprus	Other leukemia	Benzene	0.28 (0.06-0.5)	0.72 (0.22-1.2)
Cyprus	Other leukemia	Formaldehyde	0.03 (0.03-0.04)	0.2 (0.04-0.35)
Czechia	All leukemia	Benzene	0.35 (0.06-0.63)	0.15 (0.03-0.28)
Czechia	All leukemia	Formaldehyde	0.05 (0.04-0.06)	0.12 (0.02-0.22)
Czechia	Acute myeloid leukemia	Benzene	0.44 (0.08-0.79)	0.9 (0.27-1.48)
Czechia	Acute myeloid leukemia	Formaldehyde	0.07 (0.06-0.08)	0.4 (0.07-0.71)
Czechia	Acute lymphoid leukemia	Benzene	0.34 (0.06-0.65)	0.14 (0.03-0.26)
Czechia	Acute lymphoid leukemia	Formaldehyde	0.05 (0.04-0.07)	0.2 (0.04-0.37)
Czechia	Chronic myeloid leukemia	Benzene	0.52 (0.09-0.94)	0.23 (0.04-0.41)
Czechia	Chronic myeloid leukemia	Formaldehyde	0.08 (0.07-0.1)	0.32 (0.09-0.56)
Czechia	Chronic lymphoid leukemia	Benzene	0.19 (0.04-0.35)	0.61 (0.18-1.05)
Czechia	Chronic lymphoid leukemia	Formaldehyde	0.03 (0.02-0.04)	0.43 (0.12-0.71)
Czechia	Other leukemia	Benzene	0.3 (0.06-0.55)	0.45 (0.13-0.74)
Czechia	Other leukemia	Formaldehyde	0.05 (0.04-0.05)	0.42 (0.12-0.73)
Côte d'Ivoire	All leukemia	Benzene	0.48 (0.14-0.83)	0.3 (0.06-0.54)
Côte d'Ivoire	All leukemia	Formaldehyde	0.17 (0.13-0.23)	0.24 (0.07-0.41)
Côte d'Ivoire	Acute myeloid leukemia	Benzene	0.41 (0.11-0.77)	0.84 (0.25-1.42)
Côte d'Ivoire	Acute myeloid leukemia	Formaldehyde	0.15 (0.09-0.21)	0.17 (0.05-0.29)
Côte d'Ivoire	Acute lymphoid leukemia	Benzene	0.29 (0.08-0.55)	0.25 (0.05-0.47)
Côte d'Ivoire	Acute lymphoid leukemia	Formaldehyde	0.1 (0.06-0.16)	0.72 (0.21-1.2)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Côte d'Ivoire	Chronic myeloid leukemia	Benzene	1.04 (0.32-1.75)	0.23 (0.07-0.4)
Côte d'Ivoire	Chronic myeloid leukemia	Formaldehyde	0.37 (0.27-0.51)	0.31 (0.06-0.57)
Côte d'Ivoire	Chronic lymphoid leukemia	Benzene	0.23 (0.07-0.39)	0.2 (0.04-0.37)
Côte d'Ivoire	Chronic lymphoid leukemia	Formaldehyde	0.08 (0.06-0.11)	0.13 (0.03-0.24)
Côte d'Ivoire	Other leukemia	Benzene	0.47 (0.14-0.81)	1.27 (0.37-2.23)
Côte d'Ivoire	Other leukemia	Formaldehyde	0.17 (0.13-0.23)	0.32 (0.09-0.57)
Democratic People's Republic of Korea	All leukemia	Benzene	0.49 (0.15-0.81)	0.22 (0.06-0.39)
Democratic People's Republic of Korea	All leukemia	Formaldehyde	0.24 (0.18-0.3)	0.32 (0.09-0.54)
Democratic People's Republic of Korea	Acute myeloid leukemia	Benzene	0.52 (0.15-0.9)	0.11 (0.02-0.21)
Democratic People's Republic of Korea	Acute myeloid leukemia	Formaldehyde	0.25 (0.19-0.33)	0.45 (0.13-0.76)
Democratic People's Republic of Korea	Acute lymphoid leukemia	Benzene	0.39 (0.11-0.68)	0.64 (0.18-1.09)
Democratic People's Republic of Korea	Acute lymphoid leukemia	Formaldehyde	0.19 (0.13-0.25)	0.6 (0.18-1)
Democratic People's Republic of Korea	Chronic myeloid leukemia	Benzene	0.63 (0.19-1.1)	0.17 (0.03-0.3)
Democratic People's Republic of Korea	Chronic myeloid leukemia	Formaldehyde	0.3 (0.23-0.4)	0.17 (0.03-0.31)
Democratic People's Republic of Korea	Chronic lymphoid leukemia	Benzene	0.67 (0.2-1.14)	0.36 (0.1-0.61)
Democratic People's Republic of Korea	Chronic lymphoid leukemia	Formaldehyde	0.33 (0.25-0.42)	0.31 (0.09-0.51)
Democratic People's Republic of Korea	Other leukemia	Benzene	0.49 (0.15-0.82)	0.47 (0.14-0.83)
Democratic People's Republic of Korea	Other leukemia	Formaldehyde	0.24 (0.18-0.31)	0.26 (0.07-0.45)
Democratic Republic of the Congo	All leukemia	Benzene	0.4 (0.1-0.83)	0.41 (0.12-0.73)
Democratic Republic of the Congo	All leukemia	Formaldehyde	0.13 (0.07-0.22)	0.28 (0.08-0.49)
Democratic Republic of the Congo	Acute myeloid leukemia	Benzene	0.55 (0.14-1.05)	0.73 (0.21-1.27)
Democratic Republic of the Congo	Acute myeloid leukemia	Formaldehyde	0.18 (0.09-0.28)	0.51 (0.15-0.87)
Democratic Republic of the Congo	Acute lymphoid leukemia	Benzene	0.27 (0.06-0.64)	0.57 (0.17-0.96)
Democratic Republic of the Congo	Acute lymphoid leukemia	Formaldehyde	0.09 (0.03-0.18)	0.34 (0.1-0.57)
Democratic Republic of the Congo	Chronic myeloid leukemia	Benzene	0.56 (0.12-1.12)	0.29 (0.08-0.48)
Democratic Republic of the Congo	Chronic myeloid leukemia	Formaldehyde	0.18 (0.07-0.29)	0.59 (0.17-0.98)
Democratic Republic of the Congo	Chronic lymphoid leukemia	Benzene	0.35 (0.1-0.61)	0.74 (0.21-1.25)
Democratic Republic of the Congo	Chronic lymphoid leukemia	Formaldehyde	0.11 (0.09-0.14)	0.34 (0.1-0.57)
Democratic Republic of the Congo	Other leukemia	Benzene	0.39 (0.1-0.84)	0.22 (0.04-0.39)
Democratic Republic of the Congo	Other leukemia	Formaldehyde	0.13 (0.07-0.22)	1.35 (0.4-2.38)
Denmark	All leukemia	Benzene	0.4 (0.08-0.71)	0.18 (0.03-0.32)
Denmark	All leukemia	Formaldehyde	0.05 (0.04-0.05)	0.4 (0.12-0.67)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Denmark	Acute myeloid leukemia	Benzene	0.47 (0.09-0.83)	0.18 (0.03-0.32)
Denmark	Acute myeloid leukemia	Formaldehyde	0.05 (0.04-0.06)	0.5 (0.14-0.85)
Denmark	Acute lymphoid leukemia	Benzene	0.58 (0.11-1.03)	0.28 (0.08-0.47)
Denmark	Acute lymphoid leukemia	Formaldehyde	0.07 (0.06-0.09)	0.83 (0.24-1.4)
Denmark	Chronic myeloid leukemia	Benzene	0.49 (0.1-0.88)	0.99 (0.29-1.68)
Denmark	Chronic myeloid leukemia	Formaldehyde	0.06 (0.05-0.07)	0.45 (0.13-0.73)
Denmark	Chronic lymphoid leukemia	Benzene	0.2 (0.04-0.37)	0.33 (0.1-0.58)
Denmark	Chronic lymphoid leukemia	Formaldehyde	0.03 (0.02-0.03)	0.45 (0.13-0.8)
Denmark	Other leukemia	Benzene	0.33 (0.06-0.59)	0.47 (0.14-0.78)
Denmark	Other leukemia	Formaldehyde	0.04 (0.03-0.04)	0.41 (0.12-0.7)
Djibouti	All leukemia	Benzene	0.23 (0.07-0.42)	0.64 (0.18-1.17)
Djibouti	All leukemia	Formaldehyde	0.09 (0.06-0.13)	0.4 (0.07-0.73)
Djibouti	Acute myeloid leukemia	Benzene	0.32 (0.09-0.64)	0.79 (0.23-1.33)
Djibouti	Acute myeloid leukemia	Formaldehyde	0.13 (0.07-0.21)	0.95 (0.29-1.6)
Djibouti	Acute lymphoid leukemia	Benzene	0.15 (0.04-0.33)	0.46 (0.09-0.84)
Djibouti	Acute lymphoid leukemia	Formaldehyde	0.06 (0.03-0.11)	1.13 (0.32-1.91)
Djibouti	Chronic myeloid leukemia	Benzene	0.42 (0.11-0.82)	1.01 (0.31-1.71)
Djibouti	Chronic myeloid leukemia	Formaldehyde	0.17 (0.09-0.26)	0.79 (0.23-1.33)
Djibouti	Chronic lymphoid leukemia	Benzene	0.2 (0.06-0.35)	0.67 (0.19-1.1)
Djibouti	Chronic lymphoid leukemia	Formaldehyde	0.08 (0.06-0.1)	0.3 (0.06-0.55)
Djibouti	Other leukemia	Benzene	0.2 (0.05-0.37)	0.32 (0.06-0.57)
Djibouti	Other leukemia	Formaldehyde	0.08 (0.04-0.12)	0.98 (0.29-1.75)
Dominica	All leukemia	Benzene	0.46 (0.13-0.76)	1.42 (0.42-2.42)
Dominica	All leukemia	Formaldehyde	0.16 (0.13-0.19)	1.51 (0.44-2.55)
Dominica	Acute myeloid leukemia	Benzene	0.65 (0.19-1.1)	0.76 (0.22-1.34)
Dominica	Acute myeloid leukemia	Formaldehyde	0.22 (0.17-0.28)	0.79 (0.23-1.31)
Dominica	Acute lymphoid leukemia	Benzene	0.43 (0.12-0.75)	0.48 (0.08-0.87)
Dominica	Acute lymphoid leukemia	Formaldehyde	0.15 (0.11-0.19)	0.23 (0.05-0.43)
Dominica	Chronic myeloid leukemia	Benzene	0.53 (0.15-0.9)	1.54 (0.46-2.56)
Dominica	Chronic myeloid leukemia	Formaldehyde	0.18 (0.14-0.24)	1.29 (0.39-2.2)
Dominica	Chronic lymphoid leukemia	Benzene	0.25 (0.07-0.41)	0.74 (0.22-1.25)
Dominica	Chronic lymphoid leukemia	Formaldehyde	0.08 (0.07-0.1)	0.95 (0.28-1.62)
Dominica	Other leukemia	Benzene	0.42 (0.12-0.71)	1.05 (0.31-1.77)
Dominica	Other leukemia	Formaldehyde	0.14 (0.12-0.17)	0.23 (0.04-0.43)
Dominican Republic	All leukemia	Benzene	0.58 (0.17-0.97)	1.1 (0.32-2.03)
Dominican Republic	All leukemia	Formaldehyde	0.24 (0.19-0.3)	0.8 (0.23-1.31)
Dominican Republic	Acute myeloid leukemia	Benzene	0.7 (0.21-1.22)	1.27 (0.23-2.26)
Dominican Republic	Acute myeloid leukemia	Formaldehyde	0.29 (0.22-0.39)	0.32 (0.06-0.58)
Dominican Republic	Acute lymphoid leukemia	Benzene	0.35 (0.1-0.66)	0.72 (0.21-1.27)
Dominican Republic	Acute lymphoid leukemia	Formaldehyde	0.15 (0.1-0.23)	0.91 (0.25-1.56)
Dominican Republic	Chronic myeloid leukemia	Benzene	0.89 (0.26-1.55)	0.64 (0.2-1.15)
Dominican Republic	Chronic myeloid leukemia	Formaldehyde	0.37 (0.27-0.51)	0.79 (0.24-1.35)
Dominican Republic	Chronic lymphoid leukemia	Benzene	0.5 (0.14-0.85)	1.44 (0.42-2.44)
Dominican Republic	Chronic lymphoid leukemia	Formaldehyde	0.2 (0.16-0.25)	0.33 (0.06-0.59)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Dominican Republic	Other leukemia	Benzene	0.61 (0.17-1.01)	0.67 (0.2-1.21)
Dominican Republic	Other leukemia	Formaldehyde	0.25 (0.19-0.31)	0.83 (0.25-1.41)
Ecuador	All leukemia	Benzene	0.71 (0.22-1.18)	0.72 (0.21-1.19)
Ecuador	All leukemia	Formaldehyde	0.26 (0.22-0.31)	0.68 (0.19-1.14)
Ecuador	Acute myeloid leukemia	Benzene	0.78 (0.24-1.31)	0.99 (0.28-1.65)
Ecuador	Acute myeloid leukemia	Formaldehyde	0.29 (0.23-0.35)	1.09 (0.31-1.86)
Ecuador	Acute lymphoid leukemia	Benzene	0.51 (0.15-0.86)	1.07 (0.31-1.88)
Ecuador	Acute lymphoid leukemia	Formaldehyde	0.19 (0.15-0.24)	1.01 (0.29-1.69)
Ecuador	Chronic myeloid leukemia	Benzene	0.97 (0.27-1.63)	0.74 (0.22-1.25)
Ecuador	Chronic myeloid leukemia	Formaldehyde	0.36 (0.29-0.45)	0.23 (0.05-0.42)
Ecuador	Chronic lymphoid leukemia	Benzene	0.53 (0.16-0.89)	0.69 (0.2-1.14)
Ecuador	Chronic lymphoid leukemia	Formaldehyde	0.2 (0.16-0.25)	0.44 (0.08-0.82)
Ecuador	Other leukemia	Benzene	0.81 (0.24-1.33)	0.42 (0.08-0.75)
Ecuador	Other leukemia	Formaldehyde	0.3 (0.24-0.36)	1.24 (0.36-2.03)
Egypt	All leukemia	Benzene	0.38 (0.11-0.66)	0.78 (0.23-1.35)
Egypt	All leukemia	Formaldehyde	0.15 (0.1-0.2)	0.98 (0.29-1.68)
Egypt	Acute myeloid leukemia	Benzene	0.48 (0.14-0.85)	0.39 (0.07-0.68)
Egypt	Acute myeloid leukemia	Formaldehyde	0.18 (0.13-0.25)	0.74 (0.21-1.31)
Egypt	Acute lymphoid leukemia	Benzene	0.34 (0.1-0.61)	0.63 (0.18-1.09)
Egypt	Acute lymphoid leukemia	Formaldehyde	0.13 (0.07-0.19)	1.12 (0.33-1.9)
Egypt	Chronic myeloid leukemia	Benzene	0.51 (0.14-0.92)	1.19 (0.35-1.99)
Egypt	Chronic myeloid leukemia	Formaldehyde	0.2 (0.13-0.28)	0.9 (0.25-1.56)
Egypt	Chronic lymphoid leukemia	Benzene	0.4 (0.12-0.69)	0.86 (0.24-1.45)
Egypt	Chronic lymphoid leukemia	Formaldehyde	0.15 (0.11-0.21)	1.39 (0.43-2.47)
Egypt	Other leukemia	Benzene	0.31 (0.09-0.56)	1.08 (0.32-1.82)
Egypt	Other leukemia	Formaldehyde	0.12 (0.07-0.17)	0.28 (0.05-0.51)
El Salvador	All leukemia	Benzene	0.57 (0.17-0.93)	0.63 (0.18-1.15)
El Salvador	All leukemia	Formaldehyde	0.23 (0.19-0.28)	0.96 (0.25-1.76)
El Salvador	Acute myeloid leukemia	Benzene	0.62 (0.18-1.05)	0.85 (0.25-1.41)
El Salvador	Acute myeloid leukemia	Formaldehyde	0.25 (0.19-0.31)	0.37 (0.07-0.68)
El Salvador	Acute lymphoid leukemia	Benzene	0.36 (0.11-0.65)	0.2 (0.04-0.37)
El Salvador	Acute lymphoid leukemia	Formaldehyde	0.15 (0.1-0.2)	0.68 (0.2-1.18)
El Salvador	Chronic myeloid leukemia	Benzene	0.67 (0.2-1.14)	1.13 (0.32-1.92)
El Salvador	Chronic myeloid leukemia	Formaldehyde	0.27 (0.21-0.35)	0.86 (0.26-1.45)
El Salvador	Chronic lymphoid leukemia	Benzene	0.48 (0.14-0.8)	0.3 (0.05-0.54)
El Salvador	Chronic lymphoid leukemia	Formaldehyde	0.19 (0.16-0.24)	1.47 (0.43-2.46)
El Salvador	Other leukemia	Benzene	0.59 (0.17-0.97)	0.15 (0.03-0.28)
El Salvador	Other leukemia	Formaldehyde	0.24 (0.19-0.29)	0.39 (0.07-0.7)
Equatorial Guinea	All leukemia	Benzene	0.27 (0.08-0.49)	0.98 (0.28-1.64)
Equatorial Guinea	All leukemia	Formaldehyde	0.07 (0.05-0.1)	1.11 (0.33-1.85)
Equatorial Guinea	Acute myeloid leukemia	Benzene	0.35 (0.1-0.65)	0.94 (0.27-1.6)
Equatorial Guinea	Acute myeloid leukemia	Formaldehyde	0.1 (0.06-0.14)	0.79 (0.23-1.35)
Equatorial Guinea	Acute lymphoid leukemia	Benzene	0.17 (0.04-0.34)	1.18 (0.36-2.02)
Equatorial Guinea	Acute lymphoid leukemia	Formaldehyde	0.05 (0.02-0.08)	1.08 (0.32-1.79)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Equatorial Guinea	Chronic myeloid leukemia	Benzene	0.38 (0.11-0.69)	0.67 (0.19-1.18)
Equatorial Guinea	Chronic myeloid leukemia	Formaldehyde	0.1 (0.06-0.15)	0.85 (0.23-1.45)
Equatorial Guinea	Chronic lymphoid leukemia	Benzene	0.21 (0.06-0.36)	0.36 (0.07-0.64)
Equatorial Guinea	Chronic lymphoid leukemia	Formaldehyde	0.06 (0.04-0.08)	0.49 (0.09-0.91)
Equatorial Guinea	Other leukemia	Benzene	0.26 (0.07-0.49)	0.78 (0.23-1.3)
Equatorial Guinea	Other leukemia	Formaldehyde	0.07 (0.04-0.11)	0.9 (0.26-1.52)
Eritrea	All leukemia	Benzene	0.31 (0.09-0.55)	0.61 (0.18-1.03)
Eritrea	All leukemia	Formaldehyde	0.12 (0.09-0.16)	0.85 (0.24-1.46)
Eritrea	Acute myeloid leukemia	Benzene	0.43 (0.12-0.81)	0.41 (0.08-0.74)
Eritrea	Acute myeloid leukemia	Formaldehyde	0.16 (0.09-0.25)	0.4 (0.07-0.74)
Eritrea	Acute lymphoid leukemia	Benzene	0.18 (0.05-0.38)	0.17 (0.03-0.32)
Eritrea	Acute lymphoid leukemia	Formaldehyde	0.07 (0.04-0.11)	1.04 (0.3-1.72)
Eritrea	Chronic myeloid leukemia	Benzene	0.52 (0.15-0.98)	0.28 (0.05-0.49)
Eritrea	Chronic myeloid leukemia	Formaldehyde	0.2 (0.11-0.29)	0.73 (0.21-1.21)
Eritrea	Chronic lymphoid leukemia	Benzene	0.27 (0.08-0.47)	0.99 (0.29-1.65)
Eritrea	Chronic lymphoid leukemia	Formaldehyde	0.1 (0.08-0.14)	1.77 (0.53-3.03)
Eritrea	Other leukemia	Benzene	0.28 (0.08-0.52)	1.04 (0.3-1.79)
Eritrea	Other leukemia	Formaldehyde	0.11 (0.07-0.16)	1.68 (0.5-2.78)
Estonia	All leukemia	Benzene	0.42 (0.08-0.74)	0.84 (0.25-1.41)
Estonia	All leukemia	Formaldehyde	0.06 (0.05-0.07)	0.96 (0.29-1.69)
Estonia	Acute myeloid leukemia	Benzene	0.57 (0.11-1.01)	0.3 (0.05-0.55)
Estonia	Acute myeloid leukemia	Formaldehyde	0.08 (0.06-0.09)	0.74 (0.21-1.25)
Estonia	Acute lymphoid leukemia	Benzene	0.48 (0.09-0.87)	0.76 (0.22-1.41)
Estonia	Acute lymphoid leukemia	Formaldehyde	0.07 (0.05-0.08)	1.26 (0.38-2.14)
Estonia	Chronic myeloid leukemia	Benzene	0.44 (0.08-0.78)	0.9 (0.26-1.54)
Estonia	Chronic myeloid leukemia	Formaldehyde	0.06 (0.05-0.07)	0.38 (0.08-0.69)
Estonia	Chronic lymphoid leukemia	Benzene	0.31 (0.06-0.54)	0.37 (0.07-0.67)
Estonia	Chronic lymphoid leukemia	Formaldehyde	0.04 (0.03-0.05)	1.03 (0.3-1.75)
Estonia	Other leukemia	Benzene	0.34 (0.07-0.61)	1.21 (0.34-2.15)
Estonia	Other leukemia	Formaldehyde	0.05 (0.04-0.05)	1.11 (0.31-1.88)
Eswatini	All leukemia	Benzene	0.45 (0.13-0.77)	0.97 (0.27-1.62)
Eswatini	All leukemia	Formaldehyde	0.16 (0.12-0.21)	0.9 (0.26-1.53)
Eswatini	Acute myeloid leukemia	Benzene	0.67 (0.19-1.2)	0.32 (0.06-0.59)
Eswatini	Acute myeloid leukemia	Formaldehyde	0.25 (0.17-0.33)	1.23 (0.37-2.13)
Eswatini	Acute lymphoid leukemia	Benzene	0.34 (0.09-0.67)	0.68 (0.2-1.2)
Eswatini	Acute lymphoid leukemia	Formaldehyde	0.12 (0.07-0.2)	0.67 (0.19-1.1)
Eswatini	Chronic myeloid leukemia	Benzene	0.55 (0.15-1.01)	1.09 (0.33-1.8)
Eswatini	Chronic myeloid leukemia	Formaldehyde	0.2 (0.12-0.29)	1.15 (0.34-2.06)
Eswatini	Chronic lymphoid leukemia	Benzene	0.32 (0.09-0.56)	0.34 (0.07-0.64)
Eswatini	Chronic lymphoid leukemia	Formaldehyde	0.12 (0.09-0.16)	0.91 (0.27-1.58)
Eswatini	Other leukemia	Benzene	0.46 (0.14-0.8)	0.35 (0.07-0.64)
Eswatini	Other leukemia	Formaldehyde	0.17 (0.13-0.23)	0.58 (0.17-0.99)
Ethiopia	All leukemia	Benzene	0.26 (0.07-0.49)	0.68 (0.21-1.26)
Ethiopia	All leukemia	Formaldehyde	0.1 (0.06-0.14)	0.67 (0.2-1.12)



Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Ethiopia	Acute myeloid leukemia	Benzene	0.33 (0.09-0.68)	0.67 (0.2-1.21)
Ethiopia	Acute myeloid leukemia	Formaldehyde	0.13 (0.07-0.21)	1.78 (0.53-3.03)
Ethiopia	Acute lymphoid leukemia	Benzene	0.13 (0.03-0.28)	0.86 (0.25-1.46)
Ethiopia	Acute lymphoid leukemia	Formaldehyde	0.05 (0.02-0.08)	0.4 (0.08-0.71)
Ethiopia	Chronic myeloid leukemia	Benzene	0.42 (0.11-0.85)	0.51 (0.1-0.92)
Ethiopia	Chronic myeloid leukemia	Formaldehyde	0.16 (0.08-0.27)	1.05 (0.3-1.76)
Ethiopia	Chronic lymphoid leukemia	Benzene	0.24 (0.07-0.41)	0.93 (0.26-1.62)
Ethiopia	Chronic lymphoid leukemia	Formaldehyde	0.09 (0.07-0.12)	1.11 (0.31-1.89)
Ethiopia	Other leukemia	Benzene	0.18 (0.04-0.42)	0.8 (0.22-1.37)
Ethiopia	Other leukemia	Formaldehyde	0.07 (0.03-0.14)	0.39 (0.08-0.72)
Fiji	All leukemia	Benzene	0.81 (0.25-1.37)	0.92 (0.28-1.55)
Fiji	All leukemia	Formaldehyde	0.28 (0.22-0.35)	0.52 (0.1-0.92)
Fiji	Acute myeloid leukemia	Benzene	0.93 (0.28-1.57)	1.1 (0.3-1.99)
Fiji	Acute myeloid leukemia	Formaldehyde	0.32 (0.25-0.41)	0.92 (0.27-1.58)
Fiji	Acute lymphoid leukemia	Benzene	0.68 (0.2-1.24)	1.08 (0.31-1.85)
Fiji	Acute lymphoid leukemia	Formaldehyde	0.23 (0.15-0.33)	0.56 (0.16-0.95)
Fiji	Chronic myeloid leukemia	Benzene	0.91 (0.27-1.55)	1.28 (0.38-2.14)
Fiji	Chronic myeloid leukemia	Formaldehyde	0.33 (0.25-0.43)	0.87 (0.26-1.55)
Fiji	Chronic lymphoid leukemia	Benzene	0.61 (0.18-1.02)	1.14 (0.33-1.9)
Fiji	Chronic lymphoid leukemia	Formaldehyde	0.21 (0.16-0.27)	1.3 (0.37-2.2)
Fiji	Other leukemia	Benzene	0.65 (0.2-1.11)	1.18 (0.35-1.95)
Fiji	Other leukemia	Formaldehyde	0.22 (0.17-0.29)	0.29 (0.06-0.53)
Finland	All leukemia	Benzene	0.4 (0.08-0.71)	0.27 (0.05-0.5)
Finland	All leukemia	Formaldehyde	0.05 (0.04-0.05)	0.25 (0.05-0.46)
Finland	Acute myeloid leukemia	Benzene	0.46 (0.09-0.82)	2.17 (0.65-3.59)
Finland	Acute myeloid leukemia	Formaldehyde	0.05 (0.04-0.06)	0.54 (0.11-0.99)
Finland	Acute lymphoid leukemia	Benzene	0.55 (0.1-0.98)	0.32 (0.06-0.57)
Finland	Acute lymphoid leukemia	Formaldehyde	0.07 (0.05-0.08)	0.34 (0.06-0.61)
Finland	Chronic myeloid leukemia	Benzene	0.51 (0.1-0.93)	0.43 (0.08-0.77)
Finland	Chronic myeloid leukemia	Formaldehyde	0.06 (0.05-0.07)	0.83 (0.24-1.42)
Finland	Chronic lymphoid leukemia	Benzene	0.19 (0.04-0.34)	0.94 (0.27-1.66)
Finland	Chronic lymphoid leukemia	Formaldehyde	0.03 (0.02-0.03)	0.87 (0.25-1.45)
Finland	Other leukemia	Benzene	0.32 (0.06-0.57)	0.89 (0.25-1.48)
Finland	Other leukemia	Formaldehyde	0.04 (0.03-0.04)	0.57 (0.17-0.98)
France	All leukemia	Benzene	0.31 (0.06-0.56)	0.28 (0.05-0.53)
France	All leukemia	Formaldehyde	0.04 (0.03-0.04)	0.91 (0.26-1.54)
France	Acute myeloid leukemia	Benzene	0.4 (0.07-0.72)	2 (0.61-3.29)
France	Acute myeloid leukemia	Formaldehyde	0.05 (0.04-0.05)	0.8 (0.23-1.37)
France	Acute lymphoid leukemia	Benzene	0.51 (0.09-0.91)	0.34 (0.06-0.62)
France	Acute lymphoid leukemia	Formaldehyde	0.06 (0.05-0.07)	1.95 (0.59-3.25)
France	Chronic myeloid leukemia	Benzene	0.39 (0.07-0.68)	1.02 (0.29-1.74)
France	Chronic myeloid leukemia	Formaldehyde	0.04 (0.04-0.05)	0.76 (0.15-1.34)
France	Chronic lymphoid leukemia	Benzene	0.16 (0.03-0.28)	0.34 (0.06-0.61)
France	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.01-0.02)	0.28 (0.06-0.51)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
France	Other leukemia	Benzene	0.28 (0.05-0.5)	1.78 (0.49-3.3)
France	Other leukemia	Formaldehyde	0.03 (0.03-0.04)	0.71 (0.19-1.33)
Gabon	All leukemia	Benzene	0.3 (0.08-0.52)	0.68 (0.19-1.2)
Gabon	All leukemia	Formaldehyde	0.09 (0.07-0.12)	0.52 (0.13-1.07)
Gabon	Acute myeloid leukemia	Benzene	0.38 (0.11-0.7)	0.22 (0.04-0.41)
Gabon	Acute myeloid leukemia	Formaldehyde	0.11 (0.07-0.17)	0.83 (0.25-1.41)
Gabon	Acute lymphoid leukemia	Benzene	0.21 (0.05-0.41)	0.8 (0.23-1.37)
Gabon	Acute lymphoid leukemia	Formaldehyde	0.06 (0.03-0.1)	1.15 (0.35-1.91)
Gabon	Chronic myeloid leukemia	Benzene	0.4 (0.12-0.71)	0.43 (0.08-0.77)
Gabon	Chronic myeloid leukemia	Formaldehyde	0.12 (0.09-0.16)	0.36 (0.07-0.65)
Gabon	Chronic lymphoid leukemia	Benzene	0.14 (0.04-0.24)	0.55 (0.16-0.97)
Gabon	Chronic lymphoid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.55 (0.16-0.94)
Gabon	Other leukemia	Benzene	0.29 (0.08-0.5)	0.69 (0.19-1.2)
Gabon	Other leukemia	Formaldehyde	0.09 (0.06-0.12)	0.86 (0.24-1.45)
Gambia	All leukemia	Benzene	0.41 (0.12-0.7)	0.66 (0.18-1.17)
Gambia	All leukemia	Formaldehyde	0.15 (0.11-0.19)	1.27 (0.4-2.15)
Gambia	Acute myeloid leukemia	Benzene	0.36 (0.1-0.68)	0.93 (0.26-1.59)
Gambia	Acute myeloid leukemia	Formaldehyde	0.13 (0.07-0.21)	0.6 (0.17-1)
Gambia	Acute lymphoid leukemia	Benzene	0.28 (0.08-0.51)	0.94 (0.27-1.58)
Gambia	Acute lymphoid leukemia	Formaldehyde	0.1 (0.06-0.15)	0.59 (0.17-1.02)
Gambia	Chronic myeloid leukemia	Benzene	0.87 (0.26-1.5)	0.41 (0.12-0.66)
Gambia	Chronic myeloid leukemia	Formaldehyde	0.31 (0.22-0.44)	0.92 (0.27-1.59)
Gambia	Chronic lymphoid leukemia	Benzene	0.21 (0.06-0.36)	0.98 (0.29-1.68)
Gambia	Chronic lymphoid leukemia	Formaldehyde	0.08 (0.06-0.1)	0.76 (0.22-1.34)
Gambia	Other leukemia	Benzene	0.41 (0.12-0.69)	0.43 (0.08-0.78)
Gambia	Other leukemia	Formaldehyde	0.15 (0.11-0.19)	2.04 (0.62-3.55)
Georgia	All leukemia	Benzene	0.79 (0.22-1.3)	0.37 (0.07-0.66)
Georgia	All leukemia	Formaldehyde	0.22 (0.18-0.27)	0.82 (0.22-1.49)
Georgia	Acute myeloid leukemia	Benzene	0.89 (0.26-1.5)	0.36 (0.07-0.65)
Georgia	Acute myeloid leukemia	Formaldehyde	0.25 (0.2-0.31)	0.77 (0.23-1.31)
Georgia	Acute lymphoid leukemia	Benzene	0.68 (0.19-1.14)	0.75 (0.22-1.27)
Georgia	Acute lymphoid leukemia	Formaldehyde	0.19 (0.15-0.25)	1.26 (0.37-2.1)
Georgia	Chronic myeloid leukemia	Benzene	0.96 (0.28-1.6)	1.21 (0.36-2.08)
Georgia	Chronic myeloid leukemia	Formaldehyde	0.27 (0.22-0.33)	0.89 (0.26-1.46)
Georgia	Chronic lymphoid leukemia	Benzene	0.59 (0.17-0.98)	0.85 (0.24-1.42)
Georgia	Chronic lymphoid leukemia	Formaldehyde	0.16 (0.13-0.19)	0.68 (0.19-1.25)
Georgia	Other leukemia	Benzene	0.78 (0.22-1.3)	1.15 (0.32-2.01)
Georgia	Other leukemia	Formaldehyde	0.22 (0.18-0.27)	0.85 (0.24-1.45)
Germany	All leukemia	Benzene	0.37 (0.07-0.65)	0.4 (0.11-0.73)
Germany	All leukemia	Formaldehyde	0.05 (0.04-0.06)	0.42 (0.07-0.78)
Germany	Acute myeloid leukemia	Benzene	0.47 (0.09-0.83)	0.54 (0.16-0.95)
Germany	Acute myeloid leukemia	Formaldehyde	0.06 (0.05-0.07)	0.98 (0.28-1.65)
Germany	Acute lymphoid leukemia	Benzene	0.62 (0.12-1.1)	0.78 (0.15-1.41)
Germany	Acute lymphoid leukemia	Formaldehyde	0.09 (0.07-0.11)	0.42 (0.11-0.8)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Germany	Chronic myeloid leukemia	Benzene	0.43 (0.08-0.78)	0.97 (0.3-1.6)
Germany	Chronic myeloid leukemia	Formaldehyde	0.06 (0.05-0.07)	1.03 (0.3-1.68)
Germany	Chronic lymphoid leukemia	Benzene	0.2 (0.04-0.37)	0.86 (0.26-1.42)
Germany	Chronic lymphoid leukemia	Formaldehyde	0.03 (0.02-0.03)	0.58 (0.11-1.03)
Germany	Other leukemia	Benzene	0.26 (0.05-0.48)	0.61 (0.12-1.1)
Germany	Other leukemia	Formaldehyde	0.04 (0.03-0.04)	0.92 (0.27-1.62)
Ghana	All leukemia	Benzene	0.81 (0.24-1.35)	1.2 (0.36-2)
Ghana	All leukemia	Formaldehyde	0.63 (0.49-0.8)	1.34 (0.4-2.3)
Ghana	Acute myeloid leukemia	Benzene	0.69 (0.2-1.23)	0.5 (0.13-0.93)
Ghana	Acute myeloid leukemia	Formaldehyde	0.54 (0.37-0.73)	0.91 (0.27-1.5)
Ghana	Acute lymphoid leukemia	Benzene	0.62 (0.17-1.17)	0.52 (0.1-0.93)
Ghana	Acute lymphoid leukemia	Formaldehyde	0.49 (0.29-0.78)	0.48 (0.09-0.88)
Ghana	Chronic myeloid leukemia	Benzene	1.78 (0.53-3.02)	0.97 (0.29-1.63)
Ghana	Chronic myeloid leukemia	Formaldehyde	1.37 (0.99-1.83)	0.42 (0.12-0.81)
Ghana	Chronic lymphoid leukemia	Benzene	0.33 (0.1-0.55)	0.99 (0.29-1.63)
Ghana	Chronic lymphoid leukemia	Formaldehyde	0.26 (0.19-0.35)	0.68 (0.2-1.23)
Ghana	Other leukemia	Benzene	0.86 (0.25-1.45)	0.77 (0.22-1.3)
Ghana	Other leukemia	Formaldehyde	0.66 (0.5-0.88)	0.34 (0.06-0.62)
Greece	All leukemia	Benzene	0.22 (0.04-0.4)	0.95 (0.25-1.76)
Greece	All leukemia	Formaldehyde	0.03 (0.02-0.03)	0.87 (0.25-1.43)
Greece	Acute myeloid leukemia	Benzene	0.29 (0.06-0.51)	1.05 (0.18-1.91)
Greece	Acute myeloid leukemia	Formaldehyde	0.04 (0.03-0.04)	0.49 (0.09-0.87)
Greece	Acute lymphoid leukemia	Benzene	0.37 (0.07-0.65)	0.22 (0.06-0.42)
Greece	Acute lymphoid leukemia	Formaldehyde	0.05 (0.04-0.06)	0.31 (0.09-0.58)
Greece	Chronic myeloid leukemia	Benzene	0.22 (0.04-0.4)	0.53 (0.16-0.99)
Greece	Chronic myeloid leukemia	Formaldehyde	0.03 (0.02-0.03)	0.63 (0.18-1.09)
Greece	Chronic lymphoid leukemia	Benzene	0.14 (0.03-0.26)	0.49 (0.14-0.87)
Greece	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.02-0.02)	0.56 (0.1-1.01)
Greece	Other leukemia	Benzene	0.19 (0.04-0.34)	0.27 (0.07-0.51)
Greece	Other leukemia	Formaldehyde	0.02 (0.02-0.03)	0.23 (0.07-0.43)
Greenland	All leukemia	Benzene	0.47 (0.09-0.87)	0.97 (0.29-1.61)
Greenland	All leukemia	Formaldehyde	0.05 (0.04-0.07)	0.69 (0.2-1.14)
Greenland	Acute myeloid leukemia	Benzene	0.54 (0.1-1)	1.12 (0.32-1.86)
Greenland	Acute myeloid leukemia	Formaldehyde	0.06 (0.05-0.08)	0.52 (0.14-0.95)
Greenland	Acute lymphoid leukemia	Benzene	0.49 (0.09-0.91)	0.52 (0.15-0.9)
Greenland	Acute lymphoid leukemia	Formaldehyde	0.06 (0.04-0.08)	1.32 (0.4-2.22)
Greenland	Chronic myeloid leukemia	Benzene	0.63 (0.11-1.16)	1.12 (0.33-1.85)
Greenland	Chronic myeloid leukemia	Formaldehyde	0.07 (0.05-0.1)	0.39 (0.07-0.69)
Greenland	Chronic lymphoid leukemia	Benzene	0.38 (0.07-0.69)	0.87 (0.25-1.46)
Greenland	Chronic lymphoid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.63 (0.11-1.18)
Greenland	Other leukemia	Benzene	0.41 (0.07-0.78)	0.42 (0.08-0.77)
Greenland	Other leukemia	Formaldehyde	0.05 (0.04-0.07)	0.46 (0.14-0.79)
Grenada	All leukemia	Benzene	0.55 (0.16-0.92)	0.71 (0.2-1.23)
Grenada	All leukemia	Formaldehyde	0.18 (0.15-0.22)	0.45 (0.13-0.82)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Grenada	Acute myeloid leukemia	Benzene	0.71 (0.21-1.19)	0.65 (0.12-1.16)
Grenada	Acute myeloid leukemia	Formaldehyde	0.23 (0.18-0.29)	0.28 (0.08-0.55)
Grenada	Acute lymphoid leukemia	Benzene	0.39 (0.11-0.67)	0.67 (0.19-1.14)
Grenada	Acute lymphoid leukemia	Formaldehyde	0.13 (0.1-0.17)	0.77 (0.22-1.34)
Grenada	Chronic myeloid leukemia	Benzene	0.69 (0.2-1.15)	1.03 (0.31-1.73)
Grenada	Chronic myeloid leukemia	Formaldehyde	0.23 (0.19-0.28)	0.78 (0.23-1.36)
Grenada	Chronic lymphoid leukemia	Benzene	0.3 (0.08-0.51)	0.98 (0.28-1.63)
Grenada	Chronic lymphoid leukemia	Formaldehyde	0.09 (0.08-0.12)	0.69 (0.2-1.31)
Grenada	Other leukemia	Benzene	0.57 (0.17-0.95)	0.4 (0.11-0.78)
Grenada	Other leukemia	Formaldehyde	0.19 (0.15-0.23)	0.51 (0.1-0.94)
Guam	All leukemia	Benzene	1.01 (0.3-1.69)	0.51 (0.14-0.95)
Guam	All leukemia	Formaldehyde	0.3 (0.24-0.37)	0.36 (0.09-0.71)
Guam	Acute myeloid leukemia	Benzene	1.23 (0.37-2.06)	0.79 (0.24-1.38)
Guam	Acute myeloid leukemia	Formaldehyde	0.36 (0.28-0.46)	0.58 (0.11-1.04)
Guam	Acute lymphoid leukemia	Benzene	0.96 (0.28-1.68)	0.5 (0.1-0.91)
Guam	Acute lymphoid leukemia	Formaldehyde	0.28 (0.2-0.39)	0.45 (0.13-0.8)
Guam	Chronic myeloid leukemia	Benzene	0.99 (0.29-1.71)	0.55 (0.16-0.99)
Guam	Chronic myeloid leukemia	Formaldehyde	0.29 (0.22-0.39)	0.81 (0.24-1.36)
Guam	Chronic lymphoid leukemia	Benzene	0.68 (0.2-1.19)	0.62 (0.12-1.11)
Guam	Chronic lymphoid leukemia	Formaldehyde	0.2 (0.15-0.27)	0.87 (0.26-1.5)
Guam	Other leukemia	Benzene	0.74 (0.21-1.26)	0.34 (0.07-0.6)
Guam	Other leukemia	Formaldehyde	0.22 (0.17-0.28)	0.5 (0.09-0.91)
Guatemala	All leukemia	Benzene	0.64 (0.18-1.08)	0.95 (0.29-1.62)
Guatemala	All leukemia	Formaldehyde	0.28 (0.22-0.34)	1.13 (0.33-1.87)
Guatemala	Acute myeloid leukemia	Benzene	0.71 (0.2-1.23)	0.98 (0.3-1.63)
Guatemala	Acute myeloid leukemia	Formaldehyde	0.31 (0.24-0.4)	0.3 (0.1-0.54)
Guatemala	Acute lymphoid leukemia	Benzene	0.5 (0.15-0.88)	0.46 (0.13-0.83)
Guatemala	Acute lymphoid leukemia	Formaldehyde	0.22 (0.15-0.29)	0.86 (0.25-1.41)
Guatemala	Chronic myeloid leukemia	Benzene	0.71 (0.2-1.2)	0.25 (0.07-0.46)
Guatemala	Chronic myeloid leukemia	Formaldehyde	0.31 (0.25-0.38)	0.72 (0.21-1.26)
Guatemala	Chronic lymphoid leukemia	Benzene	0.65 (0.19-1.08)	0.5 (0.09-0.9)
Guatemala	Chronic lymphoid leukemia	Formaldehyde	0.28 (0.23-0.35)	0.79 (0.16-1.43)
Guatemala	Other leukemia	Benzene	0.65 (0.18-1.09)	0.57 (0.16-0.98)
Guatemala	Other leukemia	Formaldehyde	0.28 (0.23-0.35)	0.73 (0.22-1.24)
Guinea	All leukemia	Benzene	0.26 (0.07-0.46)	0.65 (0.19-1.08)
Guinea	All leukemia	Formaldehyde	0.08 (0.06-0.1)	0.7 (0.2-1.2)
Guinea	Acute myeloid leukemia	Benzene	0.23 (0.06-0.48)	0.55 (0.11-0.99)
Guinea	Acute myeloid leukemia	Formaldehyde	0.07 (0.03-0.12)	0.76 (0.14-1.35)
Guinea	Acute lymphoid leukemia	Benzene	0.18 (0.05-0.35)	0.42 (0.08-0.76)
Guinea	Acute lymphoid leukemia	Formaldehyde	0.05 (0.03-0.08)	0.87 (0.25-1.49)
Guinea	Chronic myeloid leukemia	Benzene	0.46 (0.13-0.77)	0.6 (0.11-1.07)
Guinea	Chronic myeloid leukemia	Formaldehyde	0.14 (0.1-0.19)	0.58 (0.16-1.03)
Guinea	Chronic lymphoid leukemia	Benzene	0.13 (0.04-0.22)	0.96 (0.27-1.64)
Guinea	Chronic lymphoid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.95 (0.3-1.66)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Guinea	Other leukemia	Benzene	0.3 (0.08-0.51)	0.93 (0.27-1.66)
Guinea	Other leukemia	Formaldehyde	0.09 (0.06-0.12)	1.44 (0.42-2.4)
Guinea-Bissau	All leukemia	Benzene	0.36 (0.11-0.61)	0.72 (0.21-1.21)
Guinea-Bissau	All leukemia	Formaldehyde	0.13 (0.09-0.16)	0.64 (0.18-1.14)
Guinea-Bissau	Acute myeloid leukemia	Benzene	0.31 (0.09-0.6)	0.48 (0.09-0.88)
Guinea-Bissau	Acute myeloid leukemia	Formaldehyde	0.11 (0.06-0.17)	0.86 (0.24-1.48)
Guinea-Bissau	Acute lymphoid leukemia	Benzene	0.23 (0.06-0.44)	0.61 (0.19-1.09)
Guinea-Bissau	Acute lymphoid leukemia	Formaldehyde	0.08 (0.05-0.13)	0.55 (0.16-0.96)
Guinea-Bissau	Chronic myeloid leukemia	Benzene	0.74 (0.21-1.23)	0.84 (0.25-1.43)
Guinea-Bissau	Chronic myeloid leukemia	Formaldehyde	0.26 (0.19-0.35)	0.46 (0.09-0.84)
Guinea-Bissau	Chronic lymphoid leukemia	Benzene	0.17 (0.05-0.29)	0.67 (0.12-1.2)
Guinea-Bissau	Chronic lymphoid leukemia	Formaldehyde	0.06 (0.04-0.08)	0.37 (0.11-0.7)
Guinea-Bissau	Other leukemia	Benzene	0.36 (0.1-0.6)	0.65 (0.19-1.19)
Guinea-Bissau	Other leukemia	Formaldehyde	0.13 (0.09-0.16)	1.1 (0.33-1.82)
Guyana	All leukemia	Benzene	0.69 (0.21-1.15)	1.23 (0.37-2.22)
Guyana	All leukemia	Formaldehyde	0.25 (0.2-0.31)	0.3 (0.08-0.54)
Guyana	Acute myeloid leukemia	Benzene	0.86 (0.25-1.44)	0.57 (0.11-1.03)
Guyana	Acute myeloid leukemia	Formaldehyde	0.31 (0.24-0.41)	1.06 (0.3-1.81)
Guyana	Acute lymphoid leukemia	Benzene	0.47 (0.14-0.83)	0.34 (0.1-0.6)
Guyana	Acute lymphoid leukemia	Formaldehyde	0.17 (0.13-0.24)	1.06 (0.31-1.76)
Guyana	Chronic myeloid leukemia	Benzene	0.95 (0.28-1.58)	1.02 (0.3-1.66)
Guyana	Chronic myeloid leukemia	Formaldehyde	0.35 (0.27-0.44)	1.09 (0.31-1.95)
Guyana	Chronic lymphoid leukemia	Benzene	0.45 (0.13-0.74)	0.58 (0.11-1.03)
Guyana	Chronic lymphoid leukemia	Formaldehyde	0.16 (0.13-0.2)	0.75 (0.22-1.29)
Guyana	Other leukemia	Benzene	0.7 (0.21-1.15)	0.51 (0.1-0.92)
Guyana	Other leukemia	Formaldehyde	0.25 (0.2-0.31)	0.61 (0.18-1.05)
Haiti	All leukemia	Benzene	0.26 (0.07-0.47)	0.2 (0.05-0.48)
Haiti	All leukemia	Formaldehyde	0.1 (0.06-0.13)	0.5 (0.15-0.86)
Haiti	Acute myeloid leukemia	Benzene	0.34 (0.09-0.65)	0.65 (0.19-1.21)
Haiti	Acute myeloid leukemia	Formaldehyde	0.13 (0.07-0.19)	1.09 (0.31-1.85)
Haiti	Acute lymphoid leukemia	Benzene	0.12 (0.03-0.25)	0.6 (0.19-1.05)
Haiti	Acute lymphoid leukemia	Formaldehyde	0.04 (0.02-0.07)	0.63 (0.12-1.14)
Haiti	Chronic myeloid leukemia	Benzene	0.36 (0.09-0.7)	0.65 (0.13-1.17)
Haiti	Chronic myeloid leukemia	Formaldehyde	0.13 (0.06-0.21)	0.89 (0.26-1.51)
Haiti	Chronic lymphoid leukemia	Benzene	0.29 (0.08-0.49)	0.24 (0.06-0.47)
Haiti	Chronic lymphoid leukemia	Formaldehyde	0.1 (0.08-0.13)	0.5 (0.13-0.9)
Haiti	Other leukemia	Benzene	0.29 (0.08-0.55)	0.87 (0.25-1.5)
Haiti	Other leukemia	Formaldehyde	0.11 (0.07-0.16)	0.45 (0.09-0.82)
Honduras	All leukemia	Benzene	0.47 (0.13-0.8)	1.06 (0.3-1.8)
Honduras	All leukemia	Formaldehyde	0.2 (0.15-0.25)	0.73 (0.14-1.29)
Honduras	Acute myeloid leukemia	Benzene	0.55 (0.15-0.95)	1.16 (0.34-2)
Honduras	Acute myeloid leukemia	Formaldehyde	0.23 (0.17-0.31)	0.32 (0.1-0.58)
Honduras	Acute lymphoid leukemia	Benzene	0.32 (0.09-0.55)	1.26 (0.36-2.15)
Honduras	Acute lymphoid leukemia	Formaldehyde	0.13 (0.09-0.18)	0.72 (0.2-1.26)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Honduras	Chronic myeloid leukemia	Benzene	0.82 (0.25-1.4)	1.1 (0.32-1.86)
Honduras	Chronic myeloid leukemia	Formaldehyde	0.35 (0.26-0.45)	0.38 (0.1-0.69)
Honduras	Chronic lymphoid leukemia	Benzene	0.44 (0.13-0.76)	1.13 (0.33-1.86)
Honduras	Chronic lymphoid leukemia	Formaldehyde	0.19 (0.14-0.25)	1.08 (0.32-1.8)
Honduras	Other leukemia	Benzene	0.52 (0.14-0.88)	0.68 (0.2-1.18)
Honduras	Other leukemia	Formaldehyde	0.22 (0.16-0.29)	0.56 (0.11-1)
Hungary	All leukemia	Benzene	0.3 (0.06-0.54)	0.53 (0.1-0.97)
Hungary	All leukemia	Formaldehyde	0.05 (0.04-0.06)	0.42 (0.08-0.77)
Hungary	Acute myeloid leukemia	Benzene	0.38 (0.07-0.67)	1.76 (0.54-2.97)
Hungary	Acute myeloid leukemia	Formaldehyde	0.06 (0.05-0.07)	0.73 (0.13-1.35)
Hungary	Acute lymphoid leukemia	Benzene	0.37 (0.07-0.67)	0.31 (0.06-0.57)
Hungary	Acute lymphoid leukemia	Formaldehyde	0.06 (0.05-0.07)	0.4 (0.07-0.73)
Hungary	Chronic myeloid leukemia	Benzene	0.39 (0.07-0.68)	0.58 (0.11-1.03)
Hungary	Chronic myeloid leukemia	Formaldehyde	0.06 (0.05-0.07)	0.34 (0.09-0.69)
Hungary	Chronic lymphoid leukemia	Benzene	0.16 (0.03-0.29)	0.78 (0.21-1.42)
Hungary	Chronic lymphoid leukemia	Formaldehyde	0.03 (0.02-0.03)	0.82 (0.24-1.38)
Hungary	Other leukemia	Benzene	0.28 (0.05-0.49)	0.76 (0.22-1.26)
Hungary	Other leukemia	Formaldehyde	0.04 (0.04-0.05)	0.61 (0.17-1.06)
Iceland	All leukemia	Benzene	0.54 (0.1-0.95)	0.51 (0.1-0.93)
Iceland	All leukemia	Formaldehyde	0.06 (0.05-0.07)	0.62 (0.16-1.14)
Iceland	Acute myeloid leukemia	Benzene	0.69 (0.13-1.23)	1.69 (0.53-2.89)
Iceland	Acute myeloid leukemia	Formaldehyde	0.07 (0.06-0.08)	0.35 (0.1-0.62)
Iceland	Acute lymphoid leukemia	Benzene	0.77 (0.14-1.36)	0.45 (0.08-0.82)
Iceland	Acute lymphoid leukemia	Formaldehyde	0.08 (0.07-0.1)	1.21 (0.36-2.03)
Iceland	Chronic myeloid leukemia	Benzene	0.66 (0.12-1.18)	0.31 (0.09-0.6)
Iceland	Chronic myeloid leukemia	Formaldehyde	0.07 (0.06-0.09)	0.97 (0.18-1.74)
Iceland	Chronic lymphoid leukemia	Benzene	0.31 (0.06-0.56)	0.56 (0.1-1.02)
Iceland	Chronic lymphoid leukemia	Formaldehyde	0.03 (0.02-0.04)	0.42 (0.08-0.77)
Iceland	Other leukemia	Benzene	0.47 (0.09-0.85)	1.07 (0.3-2.11)
Iceland	Other leukemia	Formaldehyde	0.05 (0.04-0.06)	0.23 (0.06-0.47)
India	All leukemia	Benzene	0.39 (0.11-0.68)	0.82 (0.23-1.46)
India	All leukemia	Formaldehyde	0.16 (0.12-0.21)	0.19 (0.05-0.42)
India	Acute myeloid leukemia	Benzene	0.46 (0.13-0.8)	0.45 (0.08-0.8)
India	Acute myeloid leukemia	Formaldehyde	0.18 (0.13-0.24)	0.81 (0.24-1.36)
India	Acute lymphoid leukemia	Benzene	0.28 (0.08-0.53)	0.55 (0.17-0.98)
India	Acute lymphoid leukemia	Formaldehyde	0.12 (0.07-0.17)	0.82 (0.25-1.38)
India	Chronic myeloid leukemia	Benzene	0.56 (0.15-1)	0.69 (0.14-1.23)
India	Chronic myeloid leukemia	Formaldehyde	0.22 (0.15-0.31)	0.68 (0.13-1.21)
India	Chronic lymphoid leukemia	Benzene	0.19 (0.06-0.33)	0.55 (0.16-0.96)
India	Chronic lymphoid leukemia	Formaldehyde	0.08 (0.06-0.09)	0.94 (0.28-1.55)
India	Other leukemia	Benzene	0.34 (0.1-0.63)	0.54 (0.15-0.92)
India	Other leukemia	Formaldehyde	0.13 (0.09-0.19)	0.82 (0.23-1.39)
Indonesia	All leukemia	Benzene	0.55 (0.16-0.94)	0.43 (0.13-0.79)
Indonesia	All leukemia	Formaldehyde	0.22 (0.17-0.28)	0.59 (0.17-1.05)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Indonesia	Acute myeloid leukemia	Benzene	0.69 (0.2-1.19)	1 (0.28-1.77)
Indonesia	Acute myeloid leukemia	Formaldehyde	0.28 (0.21-0.35)	0.6 (0.18-1.02)
Indonesia	Acute lymphoid leukemia	Benzene	0.37 (0.1-0.68)	0.89 (0.26-1.48)
Indonesia	Acute lymphoid leukemia	Formaldehyde	0.15 (0.1-0.22)	0.69 (0.2-1.15)
Indonesia	Chronic myeloid leukemia	Benzene	0.76 (0.22-1.28)	0.79 (0.23-1.35)
Indonesia	Chronic myeloid leukemia	Formaldehyde	0.31 (0.24-0.38)	0.65 (0.2-1.14)
Indonesia	Chronic lymphoid leukemia	Benzene	0.5 (0.15-0.82)	1.12 (0.32-1.91)
Indonesia	Chronic lymphoid leukemia	Formaldehyde	0.2 (0.16-0.24)	0.26 (0.07-0.53)
Indonesia	Other leukemia	Benzene	0.56 (0.16-0.95)	0.47 (0.09-0.86)
Indonesia	Other leukemia	Formaldehyde	0.23 (0.16-0.28)	2.23 (0.68-3.74)
Iran (Islamic Republic of)	All leukemia	Benzene	0.31 (0.09-0.53)	0.71 (0.14-1.26)
Iran (Islamic Republic of)	All leukemia	Formaldehyde	0.14 (0.11-0.17)	0.28 (0.08-0.56)
Iran (Islamic Republic of)	Acute myeloid leukemia	Benzene	0.39 (0.11-0.67)	0.65 (0.12-1.17)
Iran (Islamic Republic of)	Acute myeloid leukemia	Formaldehyde	0.17 (0.12-0.22)	0.79 (0.23-1.35)
Iran (Islamic Republic of)	Acute lymphoid leukemia	Benzene	0.27 (0.08-0.47)	1.06 (0.3-1.76)
Iran (Islamic Republic of)	Acute lymphoid leukemia	Formaldehyde	0.12 (0.08-0.16)	1.05 (0.31-1.73)
Iran (Islamic Republic of)	Chronic myeloid leukemia	Benzene	0.41 (0.12-0.69)	0.97 (0.29-1.67)
Iran (Islamic Republic of)	Chronic myeloid leukemia	Formaldehyde	0.17 (0.13-0.22)	0.86 (0.25-1.46)
Iran (Islamic Republic of)	Chronic lymphoid leukemia	Benzene	0.37 (0.11-0.63)	0.9 (0.27-1.5)
Iran (Islamic Republic of)	Chronic lymphoid leukemia	Formaldehyde	0.16 (0.12-0.2)	0.47 (0.14-0.86)
Iran (Islamic Republic of)	Other leukemia	Benzene	0.26 (0.08-0.44)	0.39 (0.11-0.81)
Iran (Islamic Republic of)	Other leukemia	Formaldehyde	0.11 (0.09-0.14)	0.68 (0.2-1.18)
Iraq	All leukemia	Benzene	0.44 (0.13-0.73)	0.61 (0.19-1.1)
Iraq	All leukemia	Formaldehyde	0.12 (0.1-0.16)	0.42 (0.08-0.77)
Iraq	Acute myeloid leukemia	Benzene	0.51 (0.15-0.91)	0.68 (0.2-1.15)
Iraq	Acute myeloid leukemia	Formaldehyde	0.15 (0.09-0.22)	1.13 (0.33-1.87)
Iraq	Acute lymphoid leukemia	Benzene	0.34 (0.1-0.67)	0.47 (0.09-0.84)
Iraq	Acute lymphoid leukemia	Formaldehyde	0.1 (0.06-0.16)	0.89 (0.26-1.55)
Iraq	Chronic myeloid leukemia	Benzene	0.66 (0.19-1.17)	1.25 (0.38-2.09)
Iraq	Chronic myeloid leukemia	Formaldehyde	0.19 (0.13-0.28)	1.01 (0.3-1.63)
Iraq	Chronic lymphoid leukemia	Benzene	0.42 (0.12-0.74)	0.79 (0.22-1.33)
Iraq	Chronic lymphoid leukemia	Formaldehyde	0.12 (0.09-0.17)	0.36 (0.07-0.65)
Iraq	Other leukemia	Benzene	0.41 (0.12-0.69)	0.37 (0.07-0.67)
Iraq	Other leukemia	Formaldehyde	0.12 (0.09-0.15)	1.19 (0.36-1.99)
Ireland	All leukemia	Benzene	0.25 (0.05-0.44)	1.7 (0.51-2.84)
Ireland	All leukemia	Formaldehyde	0.03 (0.03-0.04)	1.36 (0.39-2.35)
Ireland	Acute myeloid leukemia	Benzene	0.3 (0.06-0.53)	0.63 (0.18-1.08)
Ireland	Acute myeloid leukemia	Formaldehyde	0.04 (0.03-0.04)	1.09 (0.32-1.79)
Ireland	Acute lymphoid leukemia	Benzene	0.36 (0.07-0.64)	0.51 (0.09-0.91)
Ireland	Acute lymphoid leukemia	Formaldehyde	0.05 (0.04-0.06)	0.34 (0.06-0.61)
Ireland	Chronic myeloid leukemia	Benzene	0.31 (0.06-0.56)	1.55 (0.46-2.59)
Ireland	Chronic myeloid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.49 (0.13-0.9)
Ireland	Chronic lymphoid leukemia	Benzene	0.14 (0.03-0.25)	1.02 (0.3-1.71)
Ireland	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.01-0.02)	0.84 (0.24-1.42)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Ireland	Other leukemia	Benzene	0.17 (0.03-0.31)	1.06 (0.32-1.78)
Ireland	Other leukemia	Formaldehyde	0.02 (0.02-0.03)	0.3 (0.05-0.54)
Israel	All leukemia	Benzene	0.31 (0.06-0.55)	1.32 (0.38-2.3)
Israel	All leukemia	Formaldehyde	0.04 (0.03-0.04)	0.96 (0.28-1.61)
Israel	Acute myeloid leukemia	Benzene	0.37 (0.07-0.66)	1.29 (0.23-2.34)
Israel	Acute myeloid leukemia	Formaldehyde	0.04 (0.04-0.05)	0.49 (0.09-0.88)
Israel	Acute lymphoid leukemia	Benzene	0.48 (0.09-0.85)	0.27 (0.07-0.53)
Israel	Acute lymphoid leukemia	Formaldehyde	0.06 (0.05-0.07)	0.66 (0.19-1.21)
Israel	Chronic myeloid leukemia	Benzene	0.37 (0.07-0.66)	0.57 (0.17-0.99)
Israel	Chronic myeloid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.87 (0.26-1.42)
Israel	Chronic lymphoid leukemia	Benzene	0.17 (0.03-0.3)	0.71 (0.2-1.26)
Israel	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.02-0.03)	0.37 (0.07-0.66)
Israel	Other leukemia	Benzene	0.25 (0.05-0.46)	0.56 (0.16-0.98)
Israel	Other leukemia	Formaldehyde	0.03 (0.02-0.04)	0.3 (0.08-0.56)
Italy	All leukemia	Benzene	0.29 (0.05-0.52)	0.88 (0.26-1.48)
Italy	All leukemia	Formaldehyde	0.04 (0.03-0.05)	0.7 (0.2-1.15)
Italy	Acute myeloid leukemia	Benzene	0.35 (0.07-0.63)	1.14 (0.33-1.9)
Italy	Acute myeloid leukemia	Formaldehyde	0.05 (0.04-0.06)	0.86 (0.26-1.49)
Italy	Acute lymphoid leukemia	Benzene	0.43 (0.08-0.76)	0.89 (0.25-1.55)
Italy	Acute lymphoid leukemia	Formaldehyde	0.06 (0.05-0.07)	1.23 (0.36-2.03)
Italy	Chronic myeloid leukemia	Benzene	0.34 (0.06-0.62)	0.97 (0.29-1.63)
Italy	Chronic myeloid leukemia	Formaldehyde	0.05 (0.04-0.06)	0.29 (0.05-0.53)
Italy	Chronic lymphoid leukemia	Benzene	0.16 (0.03-0.28)	1.03 (0.31-1.72)
Italy	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.02-0.03)	0.39 (0.07-0.77)
Italy	Other leukemia	Benzene	0.27 (0.05-0.48)	0.39 (0.07-0.7)
Italy	Other leukemia	Formaldehyde	0.04 (0.03-0.04)	0.56 (0.16-0.96)
Jamaica	All leukemia	Benzene	0.57 (0.17-0.96)	0.74 (0.21-1.29)
Jamaica	All leukemia	Formaldehyde	0.2 (0.17-0.24)	0.81 (0.22-1.34)
Jamaica	Acute myeloid leukemia	Benzene	0.59 (0.17-1.04)	0.42 (0.08-0.75)
Jamaica	Acute myeloid leukemia	Formaldehyde	0.21 (0.15-0.28)	0.57 (0.17-1)
Jamaica	Acute lymphoid leukemia	Benzene	0.27 (0.08-0.49)	0.97 (0.28-1.63)
Jamaica	Acute lymphoid leukemia	Formaldehyde	0.1 (0.06-0.14)	1.24 (0.37-2.13)
Jamaica	Chronic myeloid leukemia	Benzene	0.63 (0.19-1.07)	1.17 (0.33-1.95)
Jamaica	Chronic myeloid leukemia	Formaldehyde	0.23 (0.18-0.29)	0.91 (0.26-1.55)
Jamaica	Chronic lymphoid leukemia	Benzene	0.39 (0.11-0.66)	1.09 (0.32-1.85)
Jamaica	Chronic lymphoid leukemia	Formaldehyde	0.14 (0.11-0.17)	1.19 (0.35-2.08)
Jamaica	Other leukemia	Benzene	0.67 (0.19-1.12)	0.76 (0.22-1.35)
Jamaica	Other leukemia	Formaldehyde	0.24 (0.19-0.29)	0.38 (0.07-0.69)
Japan	All leukemia	Benzene	0.56 (0.11-0.98)	0.81 (0.24-1.42)
Japan	All leukemia	Formaldehyde	0.08 (0.07-0.09)	0.76 (0.21-1.35)
Japan	Acute myeloid leukemia	Benzene	0.59 (0.11-1.04)	1.02 (0.3-1.72)
Japan	Acute myeloid leukemia	Formaldehyde	0.08 (0.07-0.1)	0.39 (0.07-0.69)
Japan	Acute lymphoid leukemia	Benzene	0.64 (0.12-1.14)	0.32 (0.06-0.6)
Japan	Acute lymphoid leukemia	Formaldehyde	0.09 (0.08-0.11)	0.62 (0.18-1.08)



Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Japan	Chronic myeloid leukemia	Benzene	0.68 (0.13-1.21)	0.64 (0.19-1.12)
Japan	Chronic myeloid leukemia	Formaldehyde	0.1 (0.08-0.12)	0.81 (0.24-1.35)
Japan	Chronic lymphoid leukemia	Benzene	0.29 (0.05-0.51)	0.4 (0.07-0.72)
Japan	Chronic lymphoid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.77 (0.21-1.28)
Japan	Other leukemia	Benzene	0.44 (0.08-0.79)	0.23 (0.05-0.42)
Japan	Other leukemia	Formaldehyde	0.06 (0.05-0.07)	0.38 (0.07-0.69)
Jordan	All leukemia	Benzene	0.39 (0.11-0.67)	1.25 (0.38-2.07)
Jordan	All leukemia	Formaldehyde	0.14 (0.11-0.17)	1.25 (0.37-2.06)
Jordan	Acute myeloid leukemia	Benzene	0.46 (0.13-0.82)	1.18 (0.34-1.96)
Jordan	Acute myeloid leukemia	Formaldehyde	0.16 (0.11-0.23)	0.38 (0.11-0.66)
Jordan	Acute lymphoid leukemia	Benzene	0.34 (0.09-0.62)	0.56 (0.16-0.97)
Jordan	Acute lymphoid leukemia	Formaldehyde	0.12 (0.07-0.18)	1.19 (0.34-1.97)
Jordan	Chronic myeloid leukemia	Benzene	0.57 (0.16-0.98)	0.65 (0.2-1.15)
Jordan	Chronic myeloid leukemia	Formaldehyde	0.2 (0.14-0.27)	0.91 (0.26-1.55)
Jordan	Chronic lymphoid leukemia	Benzene	0.41 (0.12-0.71)	0.41 (0.08-0.74)
Jordan	Chronic lymphoid leukemia	Formaldehyde	0.14 (0.1-0.2)	0.61 (0.12-1.11)
Jordan	Other leukemia	Benzene	0.39 (0.11-0.66)	0.63 (0.18-1.03)
Jordan	Other leukemia	Formaldehyde	0.13 (0.11-0.17)	1.02 (0.31-1.7)
Kazakhstan	All leukemia	Benzene	0.71 (0.21-1.18)	0.71 (0.21-1.19)
Kazakhstan	All leukemia	Formaldehyde	0.22 (0.18-0.26)	0.87 (0.25-1.43)
Kazakhstan	Acute myeloid leukemia	Benzene	0.89 (0.25-1.47)	0.4 (0.07-0.72)
Kazakhstan	Acute myeloid leukemia	Formaldehyde	0.27 (0.22-0.34)	0.51 (0.09-0.91)
Kazakhstan	Acute lymphoid leukemia	Benzene	0.63 (0.18-1.05)	0.27 (0.05-0.49)
Kazakhstan	Acute lymphoid leukemia	Formaldehyde	0.19 (0.15-0.24)	1.07 (0.3-1.79)
Kazakhstan	Chronic myeloid leukemia	Benzene	0.9 (0.27-1.5)	0.36 (0.07-0.65)
Kazakhstan	Chronic myeloid leukemia	Formaldehyde	0.28 (0.23-0.34)	0.67 (0.19-1.16)
Kazakhstan	Chronic lymphoid leukemia	Benzene	0.67 (0.2-1.12)	1.11 (0.33-1.85)
Kazakhstan	Chronic lymphoid leukemia	Formaldehyde	0.2 (0.16-0.24)	1.53 (0.47-2.57)
Kazakhstan	Other leukemia	Benzene	0.51 (0.14-0.88)	1.12 (0.32-1.9)
Kazakhstan	Other leukemia	Formaldehyde	0.15 (0.12-0.21)	1.81 (0.53-3.04)
Kenya	All leukemia	Benzene	0.46 (0.13-0.85)	1.02 (0.3-1.69)
Kenya	All leukemia	Formaldehyde	0.18 (0.12-0.26)	0.97 (0.28-1.63)
Kenya	Acute myeloid leukemia	Benzene	0.7 (0.2-1.31)	0.43 (0.08-0.81)
Kenya	Acute myeloid leukemia	Formaldehyde	0.27 (0.18-0.4)	0.87 (0.24-1.47)
Kenya	Acute lymphoid leukemia	Benzene	0.43 (0.11-0.8)	1 (0.29-1.74)
Kenya	Acute lymphoid leukemia	Formaldehyde	0.17 (0.08-0.25)	0.7 (0.2-1.17)
Kenya	Chronic myeloid leukemia	Benzene	0.71 (0.16-1.56)	0.9 (0.27-1.52)
Kenya	Chronic myeloid leukemia	Formaldehyde	0.27 (0.09-0.47)	0.41 (0.08-0.77)
Kenya	Chronic lymphoid leukemia	Benzene	0.35 (0.1-0.59)	0.47 (0.09-0.82)
Kenya	Chronic lymphoid leukemia	Formaldehyde	0.13 (0.11-0.17)	0.74 (0.22-1.3)
Kenya	Other leukemia	Benzene	0.39 (0.1-0.77)	1.1 (0.32-1.92)
Kenya	Other leukemia	Formaldehyde	0.15 (0.09-0.24)	1.09 (0.31-1.81)
Kiribati	All leukemia	Benzene	0.43 (0.12-0.73)	1.23 (0.35-2.16)
Kiribati	All leukemia	Formaldehyde	0.1 (0.08-0.13)	0.35 (0.1-0.65)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Kiribati	Acute myeloid leukemia	Benzene	0.53 (0.16-0.9)	0.4 (0.08-0.71)
Kiribati	Acute myeloid leukemia	Formaldehyde	0.13 (0.09-0.17)	1.29 (0.38-2.19)
Kiribati	Acute lymphoid leukemia	Benzene	0.41 (0.12-0.71)	0.41 (0.12-0.72)
Kiribati	Acute lymphoid leukemia	Formaldehyde	0.1 (0.06-0.14)	1.02 (0.29-1.68)
Kiribati	Chronic myeloid leukemia	Benzene	0.49 (0.14-0.86)	1.13 (0.33-1.85)
Kiribati	Chronic myeloid leukemia	Formaldehyde	0.12 (0.08-0.16)	1.31 (0.39-2.29)
Kiribati	Chronic lymphoid leukemia	Benzene	0.27 (0.07-0.46)	0.35 (0.07-0.66)
Kiribati	Chronic lymphoid leukemia	Formaldehyde	0.06 (0.05-0.09)	1.21 (0.36-1.97)
Kiribati	Other leukemia	Benzene	0.41 (0.12-0.71)	0.45 (0.08-0.8)
Kiribati	Other leukemia	Formaldehyde	0.1 (0.07-0.13)	0.72 (0.22-1.2)
Kuwait	All leukemia	Benzene	0.96 (0.29-1.61)	0.46 (0.12-0.92)
Kuwait	All leukemia	Formaldehyde	0.24 (0.2-0.3)	0.71 (0.21-1.19)
Kuwait	Acute myeloid leukemia	Benzene	1.13 (0.35-1.93)	0.93 (0.28-1.61)
Kuwait	Acute myeloid leukemia	Formaldehyde	0.28 (0.22-0.37)	1.59 (0.48-2.7)
Kuwait	Acute lymphoid leukemia	Benzene	0.67 (0.21-1.18)	0.8 (0.24-1.33)
Kuwait	Acute lymphoid leukemia	Formaldehyde	0.17 (0.12-0.24)	0.45 (0.09-0.81)
Kuwait	Chronic myeloid leukemia	Benzene	1.34 (0.39-2.25)	0.49 (0.09-0.87)
Kuwait	Chronic myeloid leukemia	Formaldehyde	0.36 (0.27-0.48)	1.06 (0.31-1.78)
Kuwait	Chronic lymphoid leukemia	Benzene	0.67 (0.2-1.16)	0.34 (0.08-0.68)
Kuwait	Chronic lymphoid leukemia	Formaldehyde	0.18 (0.14-0.23)	0.56 (0.15-0.97)
Kuwait	Other leukemia	Benzene	0.99 (0.3-1.64)	0.95 (0.27-1.65)
Kuwait	Other leukemia	Formaldehyde	0.24 (0.19-0.3)	0.43 (0.08-0.78)
Kyrgyzstan	All leukemia	Benzene	0.75 (0.22-1.25)	1.04 (0.3-1.74)
Kyrgyzstan	All leukemia	Formaldehyde	0.26 (0.21-0.32)	0.54 (0.1-0.95)
Kyrgyzstan	Acute myeloid leukemia	Benzene	0.81 (0.23-1.38)	1.34 (0.39-2.25)
Kyrgyzstan	Acute myeloid leukemia	Formaldehyde	0.29 (0.22-0.38)	0.61 (0.18-1.05)
Kyrgyzstan	Acute lymphoid leukemia	Benzene	0.48 (0.14-0.8)	1.39 (0.4-2.32)
Kyrgyzstan	Acute lymphoid leukemia	Formaldehyde	0.17 (0.13-0.22)	0.94 (0.26-1.65)
Kyrgyzstan	Chronic myeloid leukemia	Benzene	0.84 (0.24-1.4)	1.07 (0.31-1.8)
Kyrgyzstan	Chronic myeloid leukemia	Formaldehyde	0.29 (0.24-0.37)	0.7 (0.2-1.19)
Kyrgyzstan	Chronic lymphoid leukemia	Benzene	0.86 (0.25-1.45)	1.29 (0.39-2.13)
Kyrgyzstan	Chronic lymphoid leukemia	Formaldehyde	0.29 (0.23-0.36)	1.22 (0.36-2.03)
Kyrgyzstan	Other leukemia	Benzene	0.82 (0.23-1.37)	1.08 (0.32-1.8)
Kyrgyzstan	Other leukemia	Formaldehyde	0.28 (0.22-0.35)	0.4 (0.08-0.74)
Lao People's Democratic Republic	All leukemia	Benzene	0.43 (0.12-0.72)	0.39 (0.08-0.69)
Lao People's Democratic Republic	All leukemia	Formaldehyde	0.18 (0.13-0.24)	0.36 (0.07-0.66)
Lao People's Democratic Republic	Acute myeloid leukemia	Benzene	0.54 (0.15-0.95)	2.03 (0.6-3.4)
Lao People's Democratic Republic	Acute myeloid leukemia	Formaldehyde	0.22 (0.14-0.32)	0.58 (0.11-1.04)
Lao People's Democratic Republic	Acute lymphoid leukemia	Benzene	0.25 (0.06-0.5)	0.37 (0.07-0.66)
Lao People's Democratic Republic	Acute lymphoid leukemia	Formaldehyde	0.1 (0.06-0.17)	0.39 (0.07-0.69)
Lao People's Democratic Republic	Chronic myeloid leukemia	Benzene	0.6 (0.17-1.09)	0.63 (0.11-1.12)
Lao People's Democratic Republic	Chronic myeloid leukemia	Formaldehyde	0.25 (0.17-0.39)	0.66 (0.19-1.19)
Lao People's Democratic Republic	Chronic lymphoid leukemia	Benzene	0.43 (0.12-0.74)	1.09 (0.31-1.92)
Lao People's Democratic Republic	Chronic lymphoid leukemia	Formaldehyde	0.18 (0.13-0.26)	1.1 (0.32-1.83)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Lao People's Democratic Republic	Other leukemia	Benzene	0.44 (0.12-0.76)	1.03 (0.3-1.68)
Lao People's Democratic Republic	Other leukemia	Formaldehyde	0.19 (0.12-0.25)	0.68 (0.19-1.16)
Latvia	All leukemia	Benzene	0.34 (0.06-0.61)	0.34 (0.06-0.61)
Latvia	All leukemia	Formaldehyde	0.04 (0.03-0.05)	0.63 (0.19-1.09)
Latvia	Acute myeloid leukemia	Benzene	0.43 (0.08-0.77)	1.66 (0.49-2.76)
Latvia	Acute myeloid leukemia	Formaldehyde	0.05 (0.04-0.06)	0.42 (0.13-0.73)
Latvia	Acute lymphoid leukemia	Benzene	0.34 (0.06-0.62)	0.45 (0.09-0.82)
Latvia	Acute lymphoid leukemia	Formaldehyde	0.04 (0.03-0.05)	1.25 (0.35-2.13)
Latvia	Chronic myeloid leukemia	Benzene	0.36 (0.07-0.65)	0.4 (0.11-0.72)
Latvia	Chronic myeloid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.63 (0.12-1.13)
Latvia	Chronic lymphoid leukemia	Benzene	0.18 (0.03-0.32)	0.47 (0.09-0.88)
Latvia	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.02-0.03)	0.3 (0.06-0.56)
Latvia	Other leukemia	Benzene	0.42 (0.08-0.75)	1.55 (0.47-2.73)
Latvia	Other leukemia	Formaldehyde	0.05 (0.04-0.06)	0.52 (0.15-0.97)
Lebanon	All leukemia	Benzene	0.44 (0.13-0.75)	1.01 (0.28-1.71)
Lebanon	All leukemia	Formaldehyde	0.16 (0.12-0.2)	0.44 (0.12-0.87)
Lebanon	Acute myeloid leukemia	Benzene	0.53 (0.15-0.93)	0.3 (0.06-0.54)
Lebanon	Acute myeloid leukemia	Formaldehyde	0.19 (0.14-0.25)	0.78 (0.22-1.28)
Lebanon	Acute lymphoid leukemia	Benzene	0.45 (0.13-0.79)	0.82 (0.24-1.42)
Lebanon	Acute lymphoid leukemia	Formaldehyde	0.16 (0.11-0.22)	1.23 (0.38-2.03)
Lebanon	Chronic myeloid leukemia	Benzene	0.56 (0.15-0.96)	0.44 (0.08-0.79)
Lebanon	Chronic myeloid leukemia	Formaldehyde	0.2 (0.14-0.27)	0.47 (0.09-0.85)
Lebanon	Chronic lymphoid leukemia	Benzene	0.34 (0.09-0.58)	0.57 (0.16-0.96)
Lebanon	Chronic lymphoid leukemia	Formaldehyde	0.12 (0.09-0.16)	0.74 (0.21-1.27)
Lebanon	Other leukemia	Benzene	0.34 (0.1-0.59)	0.77 (0.22-1.32)
Lebanon	Other leukemia	Formaldehyde	0.12 (0.09-0.16)	0.78 (0.22-1.32)
Lesotho	All leukemia	Benzene	0.45 (0.13-0.76)	0.7 (0.2-1.24)
Lesotho	All leukemia	Formaldehyde	0.14 (0.11-0.18)	0.65 (0.19-1.09)
Lesotho	Acute myeloid leukemia	Benzene	0.72 (0.2-1.27)	1.06 (0.3-1.81)
Lesotho	Acute myeloid leukemia	Formaldehyde	0.23 (0.17-0.32)	0.69 (0.2-1.17)
Lesotho	Acute lymphoid leukemia	Benzene	0.41 (0.11-0.81)	1.07 (0.3-1.77)
Lesotho	Acute lymphoid leukemia	Formaldehyde	0.13 (0.08-0.2)	0.71 (0.2-1.19)
Lesotho	Chronic myeloid leukemia	Benzene	0.58 (0.16-1.03)	0.66 (0.19-1.09)
Lesotho	Chronic myeloid leukemia	Formaldehyde	0.19 (0.12-0.26)	0.9 (0.26-1.53)
Lesotho	Chronic lymphoid leukemia	Benzene	0.32 (0.09-0.54)	1.21 (0.35-2.04)
Lesotho	Chronic lymphoid leukemia	Formaldehyde	0.11 (0.08-0.14)	0.55 (0.16-1.01)
Lesotho	Other leukemia	Benzene	0.46 (0.13-0.78)	0.51 (0.1-0.92)
Lesotho	Other leukemia	Formaldehyde	0.15 (0.11-0.19)	2.05 (0.61-3.48)
Liberia	All leukemia	Benzene	0.31 (0.08-0.59)	0.4 (0.08-0.72)
Liberia	All leukemia	Formaldehyde	0.11 (0.07-0.16)	0.61 (0.18-1.16)
Liberia	Acute myeloid leukemia	Benzene	0.31 (0.07-0.67)	0.39 (0.08-0.71)
Liberia	Acute myeloid leukemia	Formaldehyde	0.11 (0.05-0.19)	1.02 (0.29-1.7)
Liberia	Acute lymphoid leukemia	Benzene	0.21 (0.05-0.46)	0.93 (0.27-1.57)
Liberia	Acute lymphoid leukemia	Formaldehyde	0.08 (0.03-0.13)	1.32 (0.39-2.18)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Liberia	Chronic myeloid leukemia	Benzene	0.64 (0.18-1.14)	1.21 (0.36-2.04)
Liberia	Chronic myeloid leukemia	Formaldehyde	0.23 (0.16-0.32)	1.02 (0.3-1.68)
Liberia	Chronic lymphoid leukemia	Benzene	0.17 (0.05-0.29)	0.84 (0.25-1.42)
Liberia	Chronic lymphoid leukemia	Formaldehyde	0.06 (0.04-0.08)	0.64 (0.19-1.19)
Liberia	Other leukemia	Benzene	0.3 (0.08-0.56)	0.82 (0.25-1.5)
Liberia	Other leukemia	Formaldehyde	0.11 (0.07-0.17)	1.01 (0.29-1.69)
Libya	All leukemia	Benzene	0.42 (0.12-0.7)	0.14 (0.09-0.22)
Libya	All leukemia	Formaldehyde	0.12 (0.09-0.16)	0.04 (0.03-0.05)
Libya	Acute myeloid leukemia	Benzene	0.5 (0.14-0.89)	0.14 (0.1-0.2)
Libya	Acute myeloid leukemia	Formaldehyde	0.15 (0.11-0.2)	0.32 (0.24-0.43)
Libya	Acute lymphoid leukemia	Benzene	0.36 (0.11-0.65)	0.08 (0.06-0.1)
Libya	Acute lymphoid leukemia	Formaldehyde	0.11 (0.07-0.16)	0.15 (0.09-0.23)
Libya	Chronic myeloid leukemia	Benzene	0.6 (0.17-1.03)	0.22 (0.17-0.27)
Libya	Chronic myeloid leukemia	Formaldehyde	0.18 (0.13-0.25)	0.3 (0.25-0.37)
Libya	Chronic lymphoid leukemia	Benzene	0.41 (0.12-0.71)	0.23 (0.18-0.28)
Libya	Chronic lymphoid leukemia	Formaldehyde	0.12 (0.09-0.16)	0.06 (0.05-0.08)
Libya	Other leukemia	Benzene	0.33 (0.09-0.56)	0.07 (0.05-0.08)
Libya	Other leukemia	Formaldehyde	0.1 (0.07-0.13)	0.23 (0.16-0.31)
Lithuania	All leukemia	Benzene	0.34 (0.06-0.6)	0.26 (0.21-0.32)
Lithuania	All leukemia	Formaldehyde	0.04 (0.03-0.05)	0.39 (0.28-0.53)
Lithuania	Acute myeloid leukemia	Benzene	0.45 (0.09-0.8)	0.2 (0.12-0.31)
Lithuania	Acute myeloid leukemia	Formaldehyde	0.05 (0.04-0.07)	0.23 (0.19-0.28)
Lithuania	Acute lymphoid leukemia	Benzene	0.38 (0.07-0.67)	0.07 (0.05-0.09)
Lithuania	Acute lymphoid leukemia	Formaldehyde	0.05 (0.04-0.06)	0.05 (0.04-0.06)
Lithuania	Chronic myeloid leukemia	Benzene	0.4 (0.07-0.73)	0.27 (0.21-0.35)
Lithuania	Chronic myeloid leukemia	Formaldehyde	0.05 (0.04-0.06)	0.17 (0.11-0.27)
Lithuania	Chronic lymphoid leukemia	Benzene	0.2 (0.04-0.36)	0.2 (0.16-0.24)
Lithuania	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.02-0.03)	0.18 (0.12-0.25)
Lithuania	Other leukemia	Benzene	0.25 (0.05-0.46)	0.25 (0.19-0.31)
Lithuania	Other leukemia	Formaldehyde	0.03 (0.02-0.04)	0.04 (0.03-0.05)
Luxembourg	All leukemia	Benzene	0.31 (0.06-0.55)	0.23 (0.14-0.34)
Luxembourg	All leukemia	Formaldehyde	0.04 (0.03-0.04)	0.26 (0.22-0.32)
Luxembourg	Acute myeloid leukemia	Benzene	0.39 (0.07-0.69)	0.07 (0.05-0.09)
Luxembourg	Acute myeloid leukemia	Formaldehyde	0.04 (0.04-0.05)	0.06 (0.05-0.07)
Luxembourg	Acute lymphoid leukemia	Benzene	0.53 (0.1-0.94)	0.07 (0.04-0.12)
Luxembourg	Acute lymphoid leukemia	Formaldehyde	0.06 (0.05-0.08)	0.11 (0.06-0.17)
Luxembourg	Chronic myeloid leukemia	Benzene	0.38 (0.07-0.67)	0.16 (0.1-0.23)
Luxembourg	Chronic myeloid leukemia	Formaldehyde	0.05 (0.04-0.05)	0.27 (0.2-0.36)
Luxembourg	Chronic lymphoid leukemia	Benzene	0.17 (0.03-0.3)	0.15 (0.09-0.23)
Luxembourg	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.01-0.02)	0.06 (0.05-0.07)
Luxembourg	Other leukemia	Benzene	0.29 (0.05-0.51)	0.1 (0.06-0.15)
Luxembourg	Other leukemia	Formaldehyde	0.03 (0.03-0.04)	0.08 (0.05-0.13)
Madagascar	All leukemia	Benzene	0.33 (0.09-0.58)	0.29 (0.24-0.35)
Madagascar	All leukemia	Formaldehyde	0.11 (0.08-0.15)	0.32 (0.26-0.38)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Madagascar	Acute myeloid leukemia	Benzene	0.43 (0.12-0.81)	0.36 (0.29-0.45)
Madagascar	Acute myeloid leukemia	Formaldehyde	0.14 (0.08-0.22)	0.17 (0.1-0.25)
Madagascar	Acute lymphoid leukemia	Benzene	0.2 (0.05-0.42)	0.17 (0.12-0.24)
Madagascar	Acute lymphoid leukemia	Formaldehyde	0.07 (0.03-0.12)	0.31 (0.23-0.4)
Madagascar	Chronic myeloid leukemia	Benzene	0.61 (0.14-1.18)	0.34 (0.28-0.42)
Madagascar	Chronic myeloid leukemia	Formaldehyde	0.2 (0.1-0.32)	0.05 (0.04-0.05)
Madagascar	Chronic lymphoid leukemia	Benzene	0.28 (0.08-0.48)	0.26 (0.21-0.32)
Madagascar	Chronic lymphoid leukemia	Formaldehyde	0.09 (0.07-0.12)	0.05 (0.04-0.07)
Madagascar	Other leukemia	Benzene	0.29 (0.08-0.54)	0.06 (0.05-0.07)
Madagascar	Other leukemia	Formaldehyde	0.1 (0.06-0.14)	0.15 (0.1-0.22)
Malawi	All leukemia	Benzene	0.44 (0.12-0.82)	0.34 (0.25-0.45)
Malawi	All leukemia	Formaldehyde	0.18 (0.12-0.27)	0.16 (0.1-0.24)
Malawi	Acute myeloid leukemia	Benzene	0.72 (0.2-1.39)	0.06 (0.05-0.07)
Malawi	Acute myeloid leukemia	Formaldehyde	0.29 (0.16-0.45)	0.09 (0.05-0.14)
Malawi	Acute lymphoid leukemia	Benzene	0.37 (0.09-0.74)	0.21 (0.16-0.26)
Malawi	Acute lymphoid leukemia	Formaldehyde	0.14 (0.06-0.24)	0.25 (0.17-0.35)
Malawi	Chronic myeloid leukemia	Benzene	0.57 (0.1-1.4)	0.34 (0.26-0.42)
Malawi	Chronic myeloid leukemia	Formaldehyde	0.23 (0.07-0.45)	0.25 (0.17-0.37)
Malawi	Chronic lymphoid leukemia	Benzene	0.48 (0.14-0.79)	0.35 (0.26-0.43)
Malawi	Chronic lymphoid leukemia	Formaldehyde	0.21 (0.16-0.27)	0.14 (0.09-0.22)
Malawi	Other leukemia	Benzene	0.38 (0.1-0.74)	0.14 (0.08-0.22)
Malawi	Other leukemia	Formaldehyde	0.16 (0.09-0.27)	0.06 (0.04-0.07)
Malaysia	All leukemia	Benzene	0.74 (0.22-1.24)	0.18 (0.12-0.26)
Malaysia	All leukemia	Formaldehyde	0.33 (0.27-0.41)	0.11 (0.06-0.19)
Malaysia	Acute myeloid leukemia	Benzene	0.89 (0.26-1.5)	0.2 (0.14-0.28)
Malaysia	Acute myeloid leukemia	Formaldehyde	0.4 (0.32-0.49)	0.06 (0.05-0.07)
Malaysia	Acute lymphoid leukemia	Benzene	0.61 (0.19-1.08)	0.05 (0.04-0.06)
Malaysia	Acute lymphoid leukemia	Formaldehyde	0.27 (0.19-0.36)	0.13 (0.09-0.18)
Malaysia	Chronic myeloid leukemia	Benzene	1.07 (0.31-1.83)	0.18 (0.12-0.26)
Malaysia	Chronic myeloid leukemia	Formaldehyde	0.47 (0.32-0.6)	0.2 (0.16-0.25)
Malaysia	Chronic lymphoid leukemia	Benzene	0.3 (0.09-0.52)	0.07 (0.06-0.08)
Malaysia	Chronic lymphoid leukemia	Formaldehyde	0.14 (0.1-0.18)	0.33 (0.22-0.5)
Malaysia	Other leukemia	Benzene	0.73 (0.22-1.24)	0.03 (0.03-0.04)
Malaysia	Other leukemia	Formaldehyde	0.33 (0.26-0.42)	0.05 (0.04-0.06)
Maldives	All leukemia	Benzene	0.45 (0.13-0.77)	0.27 (0.22-0.35)
Maldives	All leukemia	Formaldehyde	0.19 (0.14-0.27)	0.24 (0.18-0.32)
Maldives	Acute myeloid leukemia	Benzene	0.54 (0.14-1.09)	0.36 (0.28-0.45)
Maldives	Acute myeloid leukemia	Formaldehyde	0.19 (0.12-0.33)	0.1 (0.07-0.14)
Maldives	Acute lymphoid leukemia	Benzene	0.35 (0.1-0.71)	0.16 (0.1-0.23)
Maldives	Acute lymphoid leukemia	Formaldehyde	0.13 (0.08-0.22)	0.28 (0.22-0.36)
Maldives	Chronic myeloid leukemia	Benzene	0.7 (0.19-1.21)	0.09 (0.05-0.13)
Maldives	Chronic myeloid leukemia	Formaldehyde	0.33 (0.24-0.45)	0.29 (0.2-0.41)
Maldives	Chronic lymphoid leukemia	Benzene	0.52 (0.15-0.87)	0.06 (0.05-0.08)
Maldives	Chronic lymphoid leukemia	Formaldehyde	0.22 (0.16-0.29)	0.07 (0.06-0.09)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
<b>Maldives</b>	<b>Other leukemia</b>	Benzene	0.38 (0.11-0.67)	0.21 (0.16-0.28)
<b>Maldives</b>	<b>Other leukemia</b>	Formaldehyde	0.17 (0.11-0.25)	0.24 (0.2-0.3)
<b>Mali</b>	<b>All leukemia</b>	Benzene	0.29 (0.08-0.53)	0.23 (0.17-0.3)
<b>Mali</b>	<b>All leukemia</b>	Formaldehyde	0.11 (0.08-0.14)	0.18 (0.12-0.25)
<b>Mali</b>	<b>Acute myeloid leukemia</b>	Benzene	0.23 (0.06-0.51)	0.05 (0.04-0.06)
<b>Mali</b>	<b>Acute myeloid leukemia</b>	Formaldehyde	0.08 (0.04-0.14)	0.07 (0.06-0.08)
<b>Mali</b>	<b>Acute lymphoid leukemia</b>	Benzene	0.19 (0.05-0.37)	0.05 (0.04-0.06)
<b>Mali</b>	<b>Acute lymphoid leukemia</b>	Formaldehyde	0.07 (0.04-0.12)	0.23 (0.18-0.3)
<b>Mali</b>	<b>Chronic myeloid leukemia</b>	Benzene	0.55 (0.15-0.95)	0.07 (0.06-0.08)
<b>Mali</b>	<b>Chronic myeloid leukemia</b>	Formaldehyde	0.21 (0.15-0.29)	0.16 (0.1-0.23)
<b>Mali</b>	<b>Chronic lymphoid leukemia</b>	Benzene	0.18 (0.05-0.31)	0.26 (0.2-0.31)
<b>Mali</b>	<b>Chronic lymphoid leukemia</b>	Formaldehyde	0.07 (0.05-0.09)	0.29 (0.2-0.39)
<b>Mali</b>	<b>Other leukemia</b>	Benzene	0.33 (0.09-0.57)	0.23 (0.15-0.32)
<b>Mali</b>	<b>Other leukemia</b>	Formaldehyde	0.12 (0.08-0.15)	0.3 (0.23-0.38)
<b>Malta</b>	<b>All leukemia</b>	Benzene	0.29 (0.06-0.52)	0.21 (0.17-0.27)
<b>Malta</b>	<b>All leukemia</b>	Formaldehyde	0.04 (0.03-0.05)	0.28 (0.2-0.39)
<b>Malta</b>	<b>Acute myeloid leukemia</b>	Benzene	0.32 (0.06-0.57)	0.05 (0.04-0.06)
<b>Malta</b>	<b>Acute myeloid leukemia</b>	Formaldehyde	0.04 (0.04-0.05)	0.24 (0.17-0.32)
<b>Malta</b>	<b>Acute lymphoid leukemia</b>	Benzene	0.43 (0.08-0.77)	0.19 (0.12-0.27)
<b>Malta</b>	<b>Acute lymphoid leukemia</b>	Formaldehyde	0.06 (0.05-0.07)	0.19 (0.12-0.28)
<b>Malta</b>	<b>Chronic myeloid leukemia</b>	Benzene	0.29 (0.06-0.53)	0.21 (0.16-0.27)
<b>Malta</b>	<b>Chronic myeloid leukemia</b>	Formaldehyde	0.04 (0.03-0.05)	0.05 (0.04-0.06)
<b>Malta</b>	<b>Chronic lymphoid leukemia</b>	Benzene	0.16 (0.03-0.28)	0.05 (0.04-0.06)
<b>Malta</b>	<b>Chronic lymphoid leukemia</b>	Formaldehyde	0.02 (0.02-0.03)	0.13 (0.08-0.19)
<b>Malta</b>	<b>Other leukemia</b>	Benzene	0.22 (0.04-0.4)	0.23 (0.14-0.34)
<b>Malta</b>	<b>Other leukemia</b>	Formaldehyde	0.03 (0.02-0.04)	0.41 (0.31-0.53)
<b>Marshall Islands</b>	<b>All leukemia</b>	Benzene	0.71 (0.2-1.2)	0.36 (0.24-0.53)
<b>Marshall Islands</b>	<b>All leukemia</b>	Formaldehyde	0.17 (0.13-0.22)	0.11 (0.07-0.15)
<b>Marshall Islands</b>	<b>Acute myeloid leukemia</b>	Benzene	0.85 (0.24-1.45)	0.05 (0.04-0.07)
<b>Marshall Islands</b>	<b>Acute myeloid leukemia</b>	Formaldehyde	0.21 (0.15-0.27)	0.2 (0.14-0.26)
<b>Marshall Islands</b>	<b>Acute lymphoid leukemia</b>	Benzene	0.64 (0.19-1.12)	0.1 (0.07-0.15)
<b>Marshall Islands</b>	<b>Acute lymphoid leukemia</b>	Formaldehyde	0.15 (0.11-0.22)	0.37 (0.29-0.48)
<b>Marshall Islands</b>	<b>Chronic myeloid leukemia</b>	Benzene	0.84 (0.24-1.48)	0.38 (0.31-0.46)
<b>Marshall Islands</b>	<b>Chronic myeloid leukemia</b>	Formaldehyde	0.21 (0.15-0.29)	0.31 (0.21-0.43)
<b>Marshall Islands</b>	<b>Chronic lymphoid leukemia</b>	Benzene	0.65 (0.19-1.1)	0.05 (0.04-0.07)
<b>Marshall Islands</b>	<b>Chronic lymphoid leukemia</b>	Formaldehyde	0.16 (0.12-0.21)	0.21 (0.14-0.3)
<b>Marshall Islands</b>	<b>Other leukemia</b>	Benzene	0.63 (0.18-1.07)	0.05 (0.04-0.06)
<b>Marshall Islands</b>	<b>Other leukemia</b>	Formaldehyde	0.15 (0.12-0.2)	0.19 (0.15-0.25)
<b>Mauritania</b>	<b>All leukemia</b>	Benzene	0.31 (0.09-0.52)	0.07 (0.03-0.13)
<b>Mauritania</b>	<b>All leukemia</b>	Formaldehyde	0.11 (0.09-0.13)	0.19 (0.14-0.26)
<b>Mauritania</b>	<b>Acute myeloid leukemia</b>	Benzene	0.3 (0.09-0.54)	0.14 (0.1-0.21)
<b>Mauritania</b>	<b>Acute myeloid leukemia</b>	Formaldehyde	0.11 (0.07-0.14)	0.29 (0.2-0.4)
<b>Mauritania</b>	<b>Acute lymphoid leukemia</b>	Benzene	0.24 (0.07-0.43)	0.21 (0.16-0.28)
<b>Mauritania</b>	<b>Acute lymphoid leukemia</b>	Formaldehyde	0.08 (0.05-0.12)	0.05 (0.04-0.07)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Mauritania	Chronic myeloid leukemia	Benzene	0.64 (0.19-1.08)	0.06 (0.05-0.07)
Mauritania	Chronic myeloid leukemia	Formaldehyde	0.22 (0.16-0.29)	0.29 (0.22-0.35)
Mauritania	Chronic lymphoid leukemia	Benzene	0.14 (0.04-0.24)	0.08 (0.04-0.13)
Mauritania	Chronic lymphoid leukemia	Formaldehyde	0.05 (0.03-0.06)	0.12 (0.07-0.17)
Mauritania	Other leukemia	Benzene	0.28 (0.08-0.47)	0.21 (0.15-0.28)
Mauritania	Other leukemia	Formaldehyde	0.1 (0.08-0.12)	0.06 (0.04-0.07)
Mauritius	All leukemia	Benzene	0.62 (0.18-1.02)	0.37 (0.28-0.48)
Mauritius	All leukemia	Formaldehyde	0.31 (0.26-0.38)	0.06 (0.05-0.07)
Mauritius	Acute myeloid leukemia	Benzene	0.72 (0.21-1.19)	0.29 (0.2-0.4)
Mauritius	Acute myeloid leukemia	Formaldehyde	0.37 (0.3-0.46)	0.13 (0.09-0.19)
Mauritius	Acute lymphoid leukemia	Benzene	0.59 (0.17-1)	0.3 (0.23-0.39)
Mauritius	Acute lymphoid leukemia	Formaldehyde	0.29 (0.21-0.39)	0.2 (0.13-0.28)
Mauritius	Chronic myeloid leukemia	Benzene	0.72 (0.21-1.19)	0.29 (0.23-0.35)
Mauritius	Chronic myeloid leukemia	Formaldehyde	0.36 (0.28-0.44)	0.1 (0.07-0.15)
Mauritius	Chronic lymphoid leukemia	Benzene	0.44 (0.13-0.73)	0.33 (0.26-0.41)
Mauritius	Chronic lymphoid leukemia	Formaldehyde	0.22 (0.18-0.27)	0.34 (0.26-0.43)
Mauritius	Other leukemia	Benzene	0.6 (0.18-0.99)	0.23 (0.18-0.29)
Mauritius	Other leukemia	Formaldehyde	0.3 (0.25-0.37)	0.07 (0.05-0.08)
Mexico	All leukemia	Benzene	0.72 (0.21-1.18)	0.06 (0.05-0.07)
Mexico	All leukemia	Formaldehyde	0.3 (0.25-0.36)	0.04 (0.03-0.05)
Mexico	Acute myeloid leukemia	Benzene	0.9 (0.27-1.49)	0.5 (0.35-0.7)
Mexico	Acute myeloid leukemia	Formaldehyde	0.37 (0.31-0.45)	0.09 (0.07-0.11)
Mexico	Acute lymphoid leukemia	Benzene	0.55 (0.16-0.91)	0.03 (0.02-0.04)
Mexico	Acute lymphoid leukemia	Formaldehyde	0.23 (0.18-0.29)	0.05 (0.04-0.07)
Mexico	Chronic myeloid leukemia	Benzene	1.12 (0.33-1.83)	0.06 (0.05-0.07)
Mexico	Chronic myeloid leukemia	Formaldehyde	0.47 (0.39-0.57)	0.1 (0.05-0.16)
Mexico	Chronic lymphoid leukemia	Benzene	0.55 (0.16-0.9)	0.21 (0.13-0.28)
Mexico	Chronic lymphoid leukemia	Formaldehyde	0.23 (0.19-0.27)	0.25 (0.2-0.3)
Mexico	Other leukemia	Benzene	0.74 (0.22-1.22)	0.22 (0.17-0.27)
Mexico	Other leukemia	Formaldehyde	0.31 (0.25-0.37)	0.18 (0.13-0.24)
Micronesia (Federated States of)	All leukemia	Benzene	0.72 (0.21-1.21)	0.04 (0.03-0.05)
Micronesia (Federated States of)	All leukemia	Formaldehyde	0.26 (0.19-0.33)	0.15 (0.1-0.22)
Micronesia (Federated States of)	Acute myeloid leukemia	Benzene	0.88 (0.26-1.49)	0.37 (0.27-0.54)
Micronesia (Federated States of)	Acute myeloid leukemia	Formaldehyde	0.32 (0.23-0.42)	0.13 (0.09-0.2)
Micronesia (Federated States of)	Acute lymphoid leukemia	Benzene	0.59 (0.17-1.04)	0.06 (0.05-0.07)
Micronesia (Federated States of)	Acute lymphoid leukemia	Formaldehyde	0.21 (0.14-0.29)	0.36 (0.27-0.48)
Micronesia (Federated States of)	Chronic myeloid leukemia	Benzene	0.86 (0.26-1.55)	0.08 (0.05-0.14)
Micronesia (Federated States of)	Chronic myeloid leukemia	Formaldehyde	0.32 (0.2-0.46)	0.09 (0.07-0.11)
Micronesia (Federated States of)	Chronic lymphoid leukemia	Benzene	0.58 (0.17-1.02)	0.07 (0.05-0.08)
Micronesia (Federated States of)	Chronic lymphoid leukemia	Formaldehyde	0.22 (0.16-0.29)	0.05 (0.04-0.07)
Micronesia (Federated States of)	Other leukemia	Benzene	0.64 (0.18-1.1)	0.36 (0.21-0.67)
Micronesia (Federated States of)	Other leukemia	Formaldehyde	0.23 (0.17-0.3)	0.08 (0.04-0.14)
Monaco	All leukemia	Benzene	0.27 (0.05-0.5)	0.27 (0.18-0.38)
Monaco	All leukemia	Formaldehyde	0.03 (0.03-0.04)	0.07 (0.03-0.12)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Monaco	Acute myeloid leukemia	Benzene	0.34 (0.06-0.62)	0.04 (0.04-0.05)
Monaco	Acute myeloid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.32 (0.24-0.41)
Monaco	Acute lymphoid leukemia	Benzene	0.52 (0.09-0.96)	0.19 (0.13-0.26)
Monaco	Acute lymphoid leukemia	Formaldehyde	0.06 (0.05-0.08)	0.21 (0.17-0.26)
Monaco	Chronic myeloid leukemia	Benzene	0.35 (0.06-0.65)	0.06 (0.05-0.07)
Monaco	Chronic myeloid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.07 (0.05-0.08)
Monaco	Chronic lymphoid leukemia	Benzene	0.15 (0.03-0.27)	0.16 (0.11-0.22)
Monaco	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.01-0.03)	0.41 (0.34-0.5)
Monaco	Other leukemia	Benzene	0.23 (0.04-0.42)	0.14 (0.1-0.19)
Monaco	Other leukemia	Formaldehyde	0.03 (0.02-0.03)	0.33 (0.25-0.43)
Mongolia	All leukemia	Benzene	0.53 (0.15-0.89)	0.16 (0.1-0.23)
Mongolia	All leukemia	Formaldehyde	0.17 (0.13-0.21)	0.19 (0.13-0.27)
Mongolia	Acute myeloid leukemia	Benzene	0.75 (0.21-1.24)	0.26 (0.19-0.35)
Mongolia	Acute myeloid leukemia	Formaldehyde	0.24 (0.17-0.31)	0.19 (0.14-0.26)
Mongolia	Acute lymphoid leukemia	Benzene	0.31 (0.09-0.55)	0.27 (0.22-0.34)
Mongolia	Acute lymphoid leukemia	Formaldehyde	0.1 (0.06-0.14)	0.22 (0.17-0.28)
Mongolia	Chronic myeloid leukemia	Benzene	0.51 (0.14-0.92)	0.31 (0.22-0.4)
Mongolia	Chronic myeloid leukemia	Formaldehyde	0.17 (0.11-0.23)	0.18 (0.14-0.23)
Mongolia	Chronic lymphoid leukemia	Benzene	0.66 (0.18-1.15)	0.31 (0.22-0.41)
Mongolia	Chronic lymphoid leukemia	Formaldehyde	0.21 (0.15-0.29)	0.09 (0.04-0.14)
Mongolia	Other leukemia	Benzene	0.34 (0.09-0.66)	0.05 (0.04-0.06)
Mongolia	Other leukemia	Formaldehyde	0.11 (0.08-0.17)	0.59 (0.42-0.8)
Montenegro	All leukemia	Benzene	0.3 (0.06-0.53)	0.07 (0.06-0.08)
Montenegro	All leukemia	Formaldehyde	0.03 (0.03-0.04)	0.09 (0.05-0.15)
Montenegro	Acute myeloid leukemia	Benzene	0.37 (0.07-0.66)	0.07 (0.06-0.08)
Montenegro	Acute myeloid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.21 (0.15-0.28)
Montenegro	Acute lymphoid leukemia	Benzene	0.33 (0.07-0.61)	0.3 (0.25-0.37)
Montenegro	Acute lymphoid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.24 (0.19-0.3)
Montenegro	Chronic myeloid leukemia	Benzene	0.34 (0.06-0.61)	0.25 (0.18-0.34)
Montenegro	Chronic myeloid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.27 (0.22-0.34)
Montenegro	Chronic lymphoid leukemia	Benzene	0.15 (0.03-0.27)	0.36 (0.27-0.45)
Montenegro	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.01-0.02)	0.14 (0.09-0.2)
Montenegro	Other leukemia	Benzene	0.2 (0.04-0.38)	0.13 (0.06-0.2)
Montenegro	Other leukemia	Formaldehyde	0.02 (0.02-0.03)	0.23 (0.16-0.34)
Morocco	All leukemia	Benzene	0.52 (0.15-0.87)	0.22 (0.15-0.32)
Morocco	All leukemia	Formaldehyde	0.22 (0.17-0.27)	0.04 (0.03-0.05)
Morocco	Acute myeloid leukemia	Benzene	0.65 (0.18-1.09)	0.18 (0.14-0.23)
Morocco	Acute myeloid leukemia	Formaldehyde	0.27 (0.21-0.34)	0.36 (0.28-0.45)
Morocco	Acute lymphoid leukemia	Benzene	0.47 (0.14-0.83)	0.05 (0.04-0.06)
Morocco	Acute lymphoid leukemia	Formaldehyde	0.2 (0.14-0.27)	0.3 (0.21-0.41)
Morocco	Chronic myeloid leukemia	Benzene	0.64 (0.19-1.09)	0.29 (0.23-0.34)
Morocco	Chronic myeloid leukemia	Formaldehyde	0.27 (0.21-0.36)	0.3 (0.25-0.35)
Morocco	Chronic lymphoid leukemia	Benzene	0.52 (0.15-0.88)	0.22 (0.17-0.27)
Morocco	Chronic lymphoid leukemia	Formaldehyde	0.22 (0.16-0.28)	0.04 (0.03-0.05)



Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Morocco	Other leukemia	Benzene	0.42 (0.12-0.72)	0.04 (0.03-0.05)
Morocco	Other leukemia	Formaldehyde	0.18 (0.14-0.23)	0.3 (0.23-0.38)
Mozambique	All leukemia	Benzene	0.18 (0.05-0.33)	0.35 (0.29-0.42)
Mozambique	All leukemia	Formaldehyde	0.06 (0.04-0.09)	0.39 (0.29-0.53)
Mozambique	Acute myeloid leukemia	Benzene	0.29 (0.07-0.67)	0.25 (0.19-0.32)
Mozambique	Acute myeloid leukemia	Formaldehyde	0.1 (0.05-0.19)	0.27 (0.22-0.32)
Mozambique	Acute lymphoid leukemia	Benzene	0.12 (0.03-0.32)	0.06 (0.05-0.07)
Mozambique	Acute lymphoid leukemia	Formaldehyde	0.04 (0.02-0.1)	0.03 (0.03-0.04)
Mozambique	Chronic myeloid leukemia	Benzene	0.33 (0.07-0.72)	0.43 (0.35-0.55)
Mozambique	Chronic myeloid leukemia	Formaldehyde	0.11 (0.05-0.19)	0.2 (0.13-0.29)
Mozambique	Chronic lymphoid leukemia	Benzene	0.17 (0.05-0.29)	0.21 (0.18-0.25)
Mozambique	Chronic lymphoid leukemia	Formaldehyde	0.06 (0.04-0.08)	0.23 (0.17-0.29)
Mozambique	Other leukemia	Benzene	0.16 (0.04-0.33)	0.34 (0.27-0.43)
Mozambique	Other leukemia	Formaldehyde	0.05 (0.03-0.1)	0.04 (0.03-0.04)
Myanmar	All leukemia	Benzene	0.26 (0.07-0.46)	0.31 (0.22-0.42)
Myanmar	All leukemia	Formaldehyde	0.11 (0.08-0.14)	0.28 (0.24-0.34)
Myanmar	Acute myeloid leukemia	Benzene	0.33 (0.09-0.56)	0.09 (0.07-0.11)
Myanmar	Acute myeloid leukemia	Formaldehyde	0.13 (0.09-0.18)	0.06 (0.05-0.07)
Myanmar	Acute lymphoid leukemia	Benzene	0.17 (0.05-0.34)	0.09 (0.05-0.14)
Myanmar	Acute lymphoid leukemia	Formaldehyde	0.07 (0.04-0.11)	0.24 (0.14-0.33)
Myanmar	Chronic myeloid leukemia	Benzene	0.35 (0.1-0.62)	0.17 (0.13-0.24)
Myanmar	Chronic myeloid leukemia	Formaldehyde	0.14 (0.1-0.19)	0.38 (0.29-0.48)
Myanmar	Chronic lymphoid leukemia	Benzene	0.23 (0.07-0.39)	0.22 (0.16-0.29)
Myanmar	Chronic lymphoid leukemia	Formaldehyde	0.09 (0.07-0.12)	0.04 (0.03-0.05)
Myanmar	Other leukemia	Benzene	0.27 (0.07-0.47)	0.21 (0.15-0.28)
Myanmar	Other leukemia	Formaldehyde	0.11 (0.07-0.14)	0.1 (0.06-0.16)
Namibia	All leukemia	Benzene	0.45 (0.13-0.76)	0.26 (0.22-0.31)
Namibia	All leukemia	Formaldehyde	0.11 (0.09-0.14)	0.34 (0.28-0.41)
Namibia	Acute myeloid leukemia	Benzene	0.71 (0.21-1.24)	0.36 (0.3-0.44)
Namibia	Acute myeloid leukemia	Formaldehyde	0.18 (0.13-0.24)	0.28 (0.19-0.36)
Namibia	Acute lymphoid leukemia	Benzene	0.42 (0.12-0.8)	0.28 (0.21-0.36)
Namibia	Acute lymphoid leukemia	Formaldehyde	0.11 (0.06-0.16)	0.28 (0.21-0.36)
Namibia	Chronic myeloid leukemia	Benzene	0.57 (0.15-1.02)	0.29 (0.24-0.36)
Namibia	Chronic myeloid leukemia	Formaldehyde	0.14 (0.1-0.2)	0.03 (0.03-0.04)
Namibia	Chronic lymphoid leukemia	Benzene	0.29 (0.08-0.51)	0.31 (0.25-0.37)
Namibia	Chronic lymphoid leukemia	Formaldehyde	0.08 (0.06-0.1)	0.03 (0.02-0.05)
Namibia	Other leukemia	Benzene	0.47 (0.13-0.79)	0.05 (0.04-0.06)
Namibia	Other leukemia	Formaldehyde	0.12 (0.09-0.15)	0.19 (0.13-0.26)
Nauru	All leukemia	Benzene	0.92 (0.28-1.54)	0.35 (0.27-0.46)
Nauru	All leukemia	Formaldehyde	0.32 (0.24-0.41)	0.29 (0.21-0.38)
Nauru	Acute myeloid leukemia	Benzene	1.07 (0.3-1.81)	0.04 (0.03-0.05)
Nauru	Acute myeloid leukemia	Formaldehyde	0.37 (0.27-0.48)	0.18 (0.12-0.25)
Nauru	Acute lymphoid leukemia	Benzene	0.66 (0.2-1.15)	0.26 (0.2-0.33)
Nauru	Acute lymphoid leukemia	Formaldehyde	0.23 (0.15-0.33)	0.39 (0.3-0.51)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Nauru	Chronic myeloid leukemia	Benzene	1.21 (0.36-2.06)	0.37 (0.3-0.45)
Nauru	Chronic myeloid leukemia	Formaldehyde	0.44 (0.31-0.6)	0.28 (0.21-0.38)
Nauru	Chronic lymphoid leukemia	Benzene	0.83 (0.23-1.41)	0.38 (0.3-0.47)
Nauru	Chronic lymphoid leukemia	Formaldehyde	0.3 (0.22-0.39)	0.24 (0.17-0.33)
Nauru	Other leukemia	Benzene	0.82 (0.24-1.43)	0.26 (0.17-0.36)
Nauru	Other leukemia	Formaldehyde	0.28 (0.21-0.37)	0.04 (0.03-0.05)
Nepal	All leukemia	Benzene	0.47 (0.14-0.82)	0.28 (0.2-0.38)
Nepal	All leukemia	Formaldehyde	0.18 (0.13-0.24)	0.24 (0.16-0.35)
Nepal	Acute myeloid leukemia	Benzene	0.55 (0.16-0.94)	0.26 (0.21-0.33)
Nepal	Acute myeloid leukemia	Formaldehyde	0.21 (0.14-0.29)	0.04 (0.03-0.04)
Nepal	Acute lymphoid leukemia	Benzene	0.27 (0.08-0.5)	0.03 (0.02-0.04)
Nepal	Acute lymphoid leukemia	Formaldehyde	0.1 (0.06-0.15)	0.17 (0.13-0.23)
Nepal	Chronic myeloid leukemia	Benzene	0.69 (0.19-1.2)	0.22 (0.14-0.31)
Nepal	Chronic myeloid leukemia	Formaldehyde	0.27 (0.17-0.37)	0.2 (0.16-0.25)
Nepal	Chronic lymphoid leukemia	Benzene	0.33 (0.1-0.56)	0.04 (0.03-0.05)
Nepal	Chronic lymphoid leukemia	Formaldehyde	0.13 (0.1-0.17)	0.29 (0.21-0.37)
Nepal	Other leukemia	Benzene	0.39 (0.11-0.76)	0.02 (0.02-0.03)
Nepal	Other leukemia	Formaldehyde	0.15 (0.09-0.23)	0.04 (0.03-0.05)
Netherlands	All leukemia	Benzene	0.34 (0.06-0.61)	0.36 (0.29-0.43)
Netherlands	All leukemia	Formaldehyde	0.04 (0.03-0.04)	0.27 (0.21-0.34)
Netherlands	Acute myeloid leukemia	Benzene	0.44 (0.08-0.8)	0.42 (0.35-0.52)
Netherlands	Acute myeloid leukemia	Formaldehyde	0.05 (0.04-0.05)	0.12 (0.09-0.17)
Netherlands	Acute lymphoid leukemia	Benzene	0.54 (0.11-0.98)	0.19 (0.14-0.26)
Netherlands	Acute lymphoid leukemia	Formaldehyde	0.06 (0.05-0.07)	0.37 (0.29-0.46)
Netherlands	Chronic myeloid leukemia	Benzene	0.41 (0.07-0.73)	0.23 (0.16-0.31)
Netherlands	Chronic myeloid leukemia	Formaldehyde	0.04 (0.04-0.05)	0.37 (0.27-0.47)
Netherlands	Chronic lymphoid leukemia	Benzene	0.16 (0.03-0.29)	0.05 (0.04-0.06)
Netherlands	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.01-0.02)	0.06 (0.05-0.07)
Netherlands	Other leukemia	Benzene	0.25 (0.05-0.46)	0.23 (0.19-0.28)
Netherlands	Other leukemia	Formaldehyde	0.03 (0.02-0.03)	0.34 (0.28-0.41)
New Zealand	All leukemia	Benzene	0.37 (0.07-0.67)	0.25 (0.18-0.32)
New Zealand	All leukemia	Formaldehyde	0.04 (0.04-0.05)	0.22 (0.16-0.29)
New Zealand	Acute myeloid leukemia	Benzene	0.42 (0.08-0.74)	0.04 (0.03-0.04)
New Zealand	Acute myeloid leukemia	Formaldehyde	0.05 (0.04-0.06)	0.05 (0.04-0.06)
New Zealand	Acute lymphoid leukemia	Benzene	0.51 (0.1-0.92)	0.03 (0.02-0.04)
New Zealand	Acute lymphoid leukemia	Formaldehyde	0.06 (0.05-0.08)	0.3 (0.24-0.36)
New Zealand	Chronic myeloid leukemia	Benzene	0.49 (0.1-0.87)	0.04 (0.03-0.05)
New Zealand	Chronic myeloid leukemia	Formaldehyde	0.06 (0.05-0.07)	0.18 (0.13-0.24)
New Zealand	Chronic lymphoid leukemia	Benzene	0.19 (0.04-0.34)	0.3 (0.25-0.36)
New Zealand	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.02-0.03)	0.43 (0.33-0.54)
New Zealand	Other leukemia	Benzene	0.26 (0.05-0.47)	0.28 (0.2-0.37)
New Zealand	Other leukemia	Formaldehyde	0.03 (0.03-0.04)	0.37 (0.3-0.45)
Nicaragua	All leukemia	Benzene	0.42 (0.12-0.71)	0.3 (0.24-0.37)
Nicaragua	All leukemia	Formaldehyde	0.16 (0.12-0.2)	0.42 (0.31-0.55)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Nicaragua	Acute myeloid leukemia	Benzene	0.41 (0.12-0.74)	0.04 (0.03-0.05)
Nicaragua	Acute myeloid leukemia	Formaldehyde	0.15 (0.11-0.21)	0.22 (0.17-0.29)
Nicaragua	Acute lymphoid leukemia	Benzene	0.29 (0.08-0.5)	0.3 (0.21-0.41)
Nicaragua	Acute lymphoid leukemia	Formaldehyde	0.11 (0.08-0.15)	0.24 (0.17-0.32)
Nicaragua	Chronic myeloid leukemia	Benzene	0.74 (0.21-1.26)	0.21 (0.17-0.27)
Nicaragua	Chronic myeloid leukemia	Formaldehyde	0.27 (0.21-0.34)	0.04 (0.03-0.05)
Nicaragua	Chronic lymphoid leukemia	Benzene	0.66 (0.19-1.13)	0.03 (0.03-0.04)
Nicaragua	Chronic lymphoid leukemia	Formaldehyde	0.24 (0.19-0.3)	0.25 (0.17-0.33)
Nicaragua	Other leukemia	Benzene	0.5 (0.15-0.87)	0.38 (0.27-0.51)
Nicaragua	Other leukemia	Formaldehyde	0.19 (0.13-0.24)	0.39 (0.32-0.47)
Niger	All leukemia	Benzene	0.28 (0.07-0.57)	0.36 (0.26-0.53)
Niger	All leukemia	Formaldehyde	0.09 (0.05-0.15)	0.12 (0.07-0.19)
Niger	Acute myeloid leukemia	Benzene	0.26 (0.05-0.59)	0.04 (0.03-0.05)
Niger	Acute myeloid leukemia	Formaldehyde	0.09 (0.03-0.16)	0.24 (0.18-0.31)
Niger	Acute lymphoid leukemia	Benzene	0.18 (0.04-0.4)	0.13 (0.1-0.17)
Niger	Acute lymphoid leukemia	Formaldehyde	0.06 (0.03-0.12)	0.34 (0.28-0.41)
Niger	Chronic myeloid leukemia	Benzene	0.6 (0.17-1.17)	0.42 (0.35-0.5)
Niger	Chronic myeloid leukemia	Formaldehyde	0.2 (0.11-0.34)	0.37 (0.25-0.48)
Niger	Chronic lymphoid leukemia	Benzene	0.18 (0.05-0.31)	0.03 (0.02-0.04)
Niger	Chronic lymphoid leukemia	Formaldehyde	0.06 (0.05-0.08)	0.34 (0.27-0.41)
Niger	Other leukemia	Benzene	0.3 (0.08-0.6)	0.04 (0.03-0.05)
Niger	Other leukemia	Formaldehyde	0.1 (0.06-0.16)	0.23 (0.18-0.28)
Nigeria	All leukemia	Benzene	0.47 (0.13-0.85)	0.16 (0.07-0.25)
Nigeria	All leukemia	Formaldehyde	0.13 (0.1-0.18)	0.27 (0.21-0.34)
Nigeria	Acute myeloid leukemia	Benzene	0.44 (0.11-0.91)	0.2 (0.15-0.27)
Nigeria	Acute myeloid leukemia	Formaldehyde	0.12 (0.06-0.21)	0.42 (0.32-0.54)
Nigeria	Acute lymphoid leukemia	Benzene	0.38 (0.1-0.75)	0.28 (0.22-0.35)
Nigeria	Acute lymphoid leukemia	Formaldehyde	0.11 (0.06-0.17)	0.04 (0.03-0.05)
Nigeria	Chronic myeloid leukemia	Benzene	0.87 (0.25-1.5)	0.04 (0.04-0.05)
Nigeria	Chronic myeloid leukemia	Formaldehyde	0.25 (0.17-0.34)	0.34 (0.27-0.41)
Nigeria	Chronic lymphoid leukemia	Benzene	0.25 (0.07-0.42)	0.11 (0.06-0.18)
Nigeria	Chronic lymphoid leukemia	Formaldehyde	0.07 (0.06-0.09)	0.14 (0.09-0.19)
Nigeria	Other leukemia	Benzene	0.49 (0.14-0.87)	0.23 (0.17-0.3)
Nigeria	Other leukemia	Formaldehyde	0.14 (0.1-0.18)	0.05 (0.04-0.06)
Niue	All leukemia	Benzene	0.55 (0.16-0.94)	0.35 (0.28-0.45)
Niue	All leukemia	Formaldehyde	0.19 (0.14-0.24)	0.04 (0.03-0.05)
Niue	Acute myeloid leukemia	Benzene	0.74 (0.22-1.27)	0.33 (0.24-0.44)
Niue	Acute myeloid leukemia	Formaldehyde	0.25 (0.19-0.32)	0.25 (0.19-0.32)
Niue	Acute lymphoid leukemia	Benzene	0.64 (0.18-1.12)	0.33 (0.27-0.41)
Niue	Acute lymphoid leukemia	Formaldehyde	0.21 (0.15-0.29)	0.25 (0.17-0.35)
Niue	Chronic myeloid leukemia	Benzene	0.64 (0.18-1.1)	0.28 (0.23-0.34)
Niue	Chronic myeloid leukemia	Formaldehyde	0.22 (0.16-0.3)	0.19 (0.14-0.25)
Niue	Chronic lymphoid leukemia	Benzene	0.42 (0.12-0.72)	0.37 (0.31-0.45)
Niue	Chronic lymphoid leukemia	Formaldehyde	0.15 (0.11-0.19)	0.38 (0.31-0.45)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Niue	Other leukemia	Benzene	0.43 (0.13-0.75)	0.35 (0.29-0.42)
Niue	Other leukemia	Formaldehyde	0.14 (0.11-0.18)	0.05 (0.04-0.06)
North Macedonia	All leukemia	Benzene	0.26 (0.05-0.48)	0.04 (0.03-0.05)
North Macedonia	All leukemia	Formaldehyde	0.04 (0.03-0.05)	0.03 (0.03-0.04)
North Macedonia	Acute myeloid leukemia	Benzene	0.29 (0.05-0.53)	0.53 (0.4-0.71)
North Macedonia	Acute myeloid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.07 (0.06-0.08)
North Macedonia	Acute lymphoid leukemia	Benzene	0.24 (0.04-0.44)	0.03 (0.03-0.04)
North Macedonia	Acute lymphoid leukemia	Formaldehyde	0.03 (0.02-0.05)	0.05 (0.04-0.06)
North Macedonia	Chronic myeloid leukemia	Benzene	0.3 (0.06-0.56)	0.06 (0.05-0.07)
North Macedonia	Chronic myeloid leukemia	Formaldehyde	0.05 (0.03-0.06)	0.2 (0.12-0.28)
North Macedonia	Chronic lymphoid leukemia	Benzene	0.14 (0.03-0.25)	0.32 (0.21-0.41)
North Macedonia	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.02-0.03)	0.32 (0.26-0.38)
North Macedonia	Other leukemia	Benzene	0.28 (0.05-0.51)	0.3 (0.25-0.36)
North Macedonia	Other leukemia	Formaldehyde	0.04 (0.03-0.05)	0.2 (0.15-0.27)
Northern Mariana Islands	All leukemia	Benzene	1.37 (0.4-2.26)	0.03 (0.02-0.04)
Northern Mariana Islands	All leukemia	Formaldehyde	0.45 (0.35-0.57)	0.16 (0.12-0.22)
Northern Mariana Islands	Acute myeloid leukemia	Benzene	1.5 (0.43-2.47)	0.36 (0.27-0.49)
Northern Mariana Islands	Acute myeloid leukemia	Formaldehyde	0.48 (0.37-0.62)	0.17 (0.12-0.22)
Northern Mariana Islands	Acute lymphoid leukemia	Benzene	1.35 (0.38-2.31)	0.05 (0.04-0.07)
Northern Mariana Islands	Acute lymphoid leukemia	Formaldehyde	0.48 (0.31-0.71)	0.36 (0.28-0.46)
Northern Mariana Islands	Chronic myeloid leukemia	Benzene	1.29 (0.4-2.21)	0.11 (0.07-0.16)
Northern Mariana Islands	Chronic myeloid leukemia	Formaldehyde	0.46 (0.32-0.62)	0.06 (0.05-0.07)
Northern Mariana Islands	Chronic lymphoid leukemia	Benzene	1.09 (0.32-1.83)	0.06 (0.05-0.07)
Northern Mariana Islands	Chronic lymphoid leukemia	Formaldehyde	0.37 (0.28-0.49)	0.04 (0.03-0.05)
Northern Mariana Islands	Other leukemia	Benzene	1.21 (0.34-2.06)	0.52 (0.36-0.75)
Northern Mariana Islands	Other leukemia	Formaldehyde	0.38 (0.28-0.5)	0.19 (0.11-0.28)
Norway	All leukemia	Benzene	0.42 (0.08-0.74)	0.33 (0.25-0.43)
Norway	All leukemia	Formaldehyde	0.04 (0.04-0.05)	0.15 (0.09-0.24)
Norway	Acute myeloid leukemia	Benzene	0.51 (0.1-0.89)	0.03 (0.02-0.04)
Norway	Acute myeloid leukemia	Formaldehyde	0.05 (0.05-0.06)	0.3 (0.25-0.37)
Norway	Acute lymphoid leukemia	Benzene	0.63 (0.12-1.12)	0.27 (0.2-0.36)
Norway	Acute lymphoid leukemia	Formaldehyde	0.07 (0.06-0.08)	0.32 (0.26-0.38)
Norway	Chronic myeloid leukemia	Benzene	0.58 (0.11-1.02)	0.04 (0.03-0.04)
Norway	Chronic myeloid leukemia	Formaldehyde	0.06 (0.05-0.07)	0.05 (0.04-0.06)
Norway	Chronic lymphoid leukemia	Benzene	0.24 (0.04-0.42)	0.16 (0.12-0.2)
Norway	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.02-0.03)	0.32 (0.26-0.42)
Norway	Other leukemia	Benzene	0.34 (0.06-0.59)	0.2 (0.16-0.26)
Norway	Other leukemia	Formaldehyde	0.04 (0.03-0.04)	0.31 (0.25-0.41)
Oman	All leukemia	Benzene	0.61 (0.18-1.02)	0.26 (0.16-0.35)
Oman	All leukemia	Formaldehyde	0.18 (0.13-0.23)	0.21 (0.15-0.29)
Oman	Acute myeloid leukemia	Benzene	0.76 (0.21-1.31)	0.28 (0.2-0.35)
Oman	Acute myeloid leukemia	Formaldehyde	0.22 (0.15-0.3)	0.21 (0.16-0.28)
Oman	Acute lymphoid leukemia	Benzene	0.51 (0.14-0.92)	0.33 (0.27-0.4)
Oman	Acute lymphoid leukemia	Formaldehyde	0.15 (0.1-0.22)	0.21 (0.16-0.26)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Oman	Chronic myeloid leukemia	Benzene	0.8 (0.23-1.38)	0.25 (0.21-0.3)
Oman	Chronic myeloid leukemia	Formaldehyde	0.23 (0.17-0.31)	0.25 (0.19-0.33)
Oman	Chronic lymphoid leukemia	Benzene	0.52 (0.15-0.89)	0.33 (0.25-0.43)
Oman	Chronic lymphoid leukemia	Formaldehyde	0.15 (0.11-0.21)	0.18 (0.11-0.26)
Oman	Other leukemia	Benzene	0.5 (0.15-0.87)	0.05 (0.04-0.06)
Oman	Other leukemia	Formaldehyde	0.14 (0.11-0.19)	0.52 (0.37-0.73)
Pakistan	All leukemia	Benzene	0.25 (0.07-0.46)	0.04 (0.03-0.05)
Pakistan	All leukemia	Formaldehyde	0.1 (0.07-0.15)	0.2 (0.12-0.3)
Pakistan	Acute myeloid leukemia	Benzene	0.31 (0.09-0.55)	0.04 (0.03-0.05)
Pakistan	Acute myeloid leukemia	Formaldehyde	0.13 (0.08-0.18)	0.24 (0.19-0.3)
Pakistan	Acute lymphoid leukemia	Benzene	0.19 (0.05-0.37)	0.26 (0.22-0.31)
Pakistan	Acute lymphoid leukemia	Formaldehyde	0.08 (0.04-0.13)	0.31 (0.25-0.38)
Pakistan	Chronic myeloid leukemia	Benzene	0.43 (0.12-0.81)	0.32 (0.24-0.41)
Pakistan	Chronic myeloid leukemia	Formaldehyde	0.18 (0.09-0.26)	0.32 (0.27-0.39)
Pakistan	Chronic lymphoid leukemia	Benzene	0.1 (0.03-0.18)	0.34 (0.26-0.42)
Pakistan	Chronic lymphoid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.19 (0.12-0.28)
Pakistan	Other leukemia	Benzene	0.21 (0.06-0.41)	0.25 (0.15-0.35)
Pakistan	Other leukemia	Formaldehyde	0.09 (0.05-0.14)	0.34 (0.25-0.44)
Palau	All leukemia	Benzene	0.79 (0.23-1.37)	0.5 (0.14-0.86)
Palau	All leukemia	Formaldehyde	0.26 (0.2-0.34)	0.35 (0.07-0.63)
Palau	Acute myeloid leukemia	Benzene	1.11 (0.33-1.85)	0.57 (0.17-0.96)
Palau	Acute myeloid leukemia	Formaldehyde	0.37 (0.29-0.45)	0.88 (0.25-1.46)
Palau	Acute lymphoid leukemia	Benzene	0.91 (0.28-1.59)	0.4 (0.07-0.72)
Palau	Acute lymphoid leukemia	Formaldehyde	0.29 (0.21-0.39)	0.73 (0.22-1.25)
Palau	Chronic myeloid leukemia	Benzene	0.84 (0.24-1.48)	1 (0.31-1.69)
Palau	Chronic myeloid leukemia	Formaldehyde	0.27 (0.2-0.37)	0.82 (0.24-1.33)
Palau	Chronic lymphoid leukemia	Benzene	0.77 (0.22-1.36)	0.68 (0.2-1.12)
Palau	Chronic lymphoid leukemia	Formaldehyde	0.26 (0.2-0.36)	0.31 (0.06-0.55)
Palau	Other leukemia	Benzene	0.56 (0.15-1.04)	0.3 (0.06-0.53)
Palau	Other leukemia	Formaldehyde	0.18 (0.13-0.27)	0.99 (0.3-1.64)
Palestine	All leukemia	Benzene	0.35 (0.11-0.6)	1.36 (0.4-2.29)
Palestine	All leukemia	Formaldehyde	0.12 (0.09-0.15)	1.29 (0.39-2.14)
Palestine	Acute myeloid leukemia	Benzene	0.54 (0.15-1.01)	0.55 (0.16-0.97)
Palestine	Acute myeloid leukemia	Formaldehyde	0.18 (0.11-0.29)	0.82 (0.24-1.34)
Palestine	Acute lymphoid leukemia	Benzene	0.37 (0.1-0.7)	0.41 (0.08-0.73)
Palestine	Acute lymphoid leukemia	Formaldehyde	0.13 (0.07-0.19)	0.26 (0.05-0.46)
Palestine	Chronic myeloid leukemia	Benzene	0.3 (0.08-0.54)	1.26 (0.38-2.08)
Palestine	Chronic myeloid leukemia	Formaldehyde	0.09 (0.06-0.14)	0.58 (0.17-1.02)
Palestine	Chronic lymphoid leukemia	Benzene	0.24 (0.07-0.43)	0.74 (0.22-1.24)
Palestine	Chronic lymphoid leukemia	Formaldehyde	0.08 (0.05-0.11)	0.71 (0.2-1.2)
Palestine	Other leukemia	Benzene	0.35 (0.11-0.6)	0.93 (0.27-1.54)
Palestine	Other leukemia	Formaldehyde	0.12 (0.09-0.15)	0.24 (0.04-0.42)
Panama	All leukemia	Benzene	0.71 (0.21-1.19)	0.81 (0.24-1.41)
Panama	All leukemia	Formaldehyde	0.21 (0.18-0.26)	0.79 (0.23-1.3)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Panama	Acute myeloid leukemia	Benzene	0.76 (0.23-1.28)	1.1 (0.2-1.97)
Panama	Acute myeloid leukemia	Formaldehyde	0.22 (0.18-0.27)	0.4 (0.07-0.71)
Panama	Acute lymphoid leukemia	Benzene	0.62 (0.19-1.03)	0.33 (0.09-0.59)
Panama	Acute lymphoid leukemia	Formaldehyde	0.18 (0.14-0.23)	0.54 (0.15-0.92)
Panama	Chronic myeloid leukemia	Benzene	1.02 (0.3-1.7)	0.47 (0.14-0.79)
Panama	Chronic myeloid leukemia	Formaldehyde	0.3 (0.24-0.38)	0.75 (0.22-1.23)
Panama	Chronic lymphoid leukemia	Benzene	0.37 (0.11-0.61)	0.71 (0.21-1.21)
Panama	Chronic lymphoid leukemia	Formaldehyde	0.11 (0.09-0.14)	0.3 (0.06-0.53)
Panama	Other leukemia	Benzene	0.75 (0.22-1.24)	0.45 (0.13-0.77)
Panama	Other leukemia	Formaldehyde	0.22 (0.18-0.27)	0.36 (0.1-0.63)
Papua New Guinea	All leukemia	Benzene	0.39 (0.11-0.68)	0.74 (0.21-1.23)
Papua New Guinea	All leukemia	Formaldehyde	0.11 (0.08-0.15)	0.67 (0.19-1.1)
Papua New Guinea	Acute myeloid leukemia	Benzene	0.53 (0.15-0.94)	1.02 (0.3-1.68)
Papua New Guinea	Acute myeloid leukemia	Formaldehyde	0.16 (0.11-0.22)	0.66 (0.19-1.14)
Papua New Guinea	Acute lymphoid leukemia	Benzene	0.28 (0.08-0.56)	0.75 (0.22-1.27)
Papua New Guinea	Acute lymphoid leukemia	Formaldehyde	0.08 (0.05-0.13)	0.96 (0.28-1.57)
Papua New Guinea	Chronic myeloid leukemia	Benzene	0.6 (0.16-1.04)	0.88 (0.26-1.45)
Papua New Guinea	Chronic myeloid leukemia	Formaldehyde	0.18 (0.12-0.26)	0.21 (0.04-0.38)
Papua New Guinea	Chronic lymphoid leukemia	Benzene	0.52 (0.15-0.91)	0.76 (0.22-1.26)
Papua New Guinea	Chronic lymphoid leukemia	Formaldehyde	0.15 (0.11-0.21)	0.34 (0.06-0.61)
Papua New Guinea	Other leukemia	Benzene	0.34 (0.09-0.6)	0.29 (0.06-0.51)
Papua New Guinea	Other leukemia	Formaldehyde	0.1 (0.07-0.14)	0.65 (0.2-1.09)
Paraguay	All leukemia	Benzene	0.69 (0.2-1.15)	0.77 (0.23-1.31)
Paraguay	All leukemia	Formaldehyde	0.25 (0.2-0.32)	0.64 (0.19-1.07)
Paraguay	Acute myeloid leukemia	Benzene	0.89 (0.26-1.51)	0.34 (0.06-0.6)
Paraguay	Acute myeloid leukemia	Formaldehyde	0.33 (0.25-0.42)	0.46 (0.13-0.78)
Paraguay	Acute lymphoid leukemia	Benzene	0.49 (0.14-0.85)	0.65 (0.19-1.1)
Paraguay	Acute lymphoid leukemia	Formaldehyde	0.18 (0.13-0.23)	1.01 (0.3-1.69)
Paraguay	Chronic myeloid leukemia	Benzene	0.94 (0.27-1.58)	1.07 (0.31-1.79)
Paraguay	Chronic myeloid leukemia	Formaldehyde	0.35 (0.27-0.44)	0.75 (0.21-1.29)
Paraguay	Chronic lymphoid leukemia	Benzene	0.4 (0.11-0.69)	0.98 (0.29-1.6)
Paraguay	Chronic lymphoid leukemia	Formaldehyde	0.15 (0.12-0.19)	0.96 (0.29-1.68)
Paraguay	Other leukemia	Benzene	0.71 (0.2-1.19)	0.65 (0.19-1.1)
Paraguay	Other leukemia	Formaldehyde	0.26 (0.2-0.32)	0.29 (0.06-0.52)
Peru	All leukemia	Benzene	0.86 (0.25-1.4)	0.49 (0.15-0.84)
Peru	All leukemia	Formaldehyde	0.31 (0.25-0.38)	0.62 (0.17-1.09)
Peru	Acute myeloid leukemia	Benzene	0.85 (0.25-1.42)	0.89 (0.26-1.5)
Peru	Acute myeloid leukemia	Formaldehyde	0.31 (0.24-0.38)	0.32 (0.06-0.57)
Peru	Acute lymphoid leukemia	Benzene	0.56 (0.16-0.98)	0.24 (0.05-0.43)
Peru	Acute lymphoid leukemia	Formaldehyde	0.21 (0.15-0.28)	0.5 (0.15-0.84)
Peru	Chronic myeloid leukemia	Benzene	1.18 (0.37-1.97)	0.61 (0.17-1.02)
Peru	Chronic myeloid leukemia	Formaldehyde	0.43 (0.34-0.55)	0.71 (0.2-1.17)
Peru	Chronic lymphoid leukemia	Benzene	1 (0.28-1.68)	0.3 (0.05-0.56)
Peru	Chronic lymphoid leukemia	Formaldehyde	0.37 (0.29-0.46)	0.83 (0.25-1.37)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Peru	Other leukemia	Benzene	1 (0.29-1.64)	0.17 (0.03-0.3)
Peru	Other leukemia	Formaldehyde	0.36 (0.28-0.45)	0.35 (0.07-0.63)
Philippines	All leukemia	Benzene	0.64 (0.18-1.07)	0.92 (0.27-1.52)
Philippines	All leukemia	Formaldehyde	0.25 (0.19-0.31)	0.93 (0.28-1.51)
Philippines	Acute myeloid leukemia	Benzene	0.8 (0.23-1.33)	1.06 (0.31-1.76)
Philippines	Acute myeloid leukemia	Formaldehyde	0.31 (0.24-0.38)	0.43 (0.12-0.71)
Philippines	Acute lymphoid leukemia	Benzene	0.44 (0.12-0.79)	0.63 (0.19-1.06)
Philippines	Acute lymphoid leukemia	Formaldehyde	0.17 (0.12-0.24)	0.96 (0.28-1.59)
Philippines	Chronic myeloid leukemia	Benzene	0.97 (0.28-1.61)	0.51 (0.15-0.88)
Philippines	Chronic myeloid leukemia	Formaldehyde	0.38 (0.31-0.46)	0.78 (0.22-1.33)
Philippines	Chronic lymphoid leukemia	Benzene	0.61 (0.17-1.05)	0.32 (0.06-0.58)
Philippines	Chronic lymphoid leukemia	Formaldehyde	0.24 (0.19-0.32)	0.48 (0.09-0.87)
Philippines	Other leukemia	Benzene	0.61 (0.17-1.04)	0.56 (0.16-0.92)
Philippines	Other leukemia	Formaldehyde	0.24 (0.17-0.3)	0.85 (0.26-1.41)
Poland	All leukemia	Benzene	0.31 (0.06-0.56)	0.53 (0.15-0.88)
Poland	All leukemia	Formaldehyde	0.05 (0.04-0.06)	0.7 (0.2-1.17)
Poland	Acute myeloid leukemia	Benzene	0.43 (0.08-0.76)	0.33 (0.06-0.58)
Poland	Acute myeloid leukemia	Formaldehyde	0.07 (0.05-0.08)	0.4 (0.07-0.71)
Poland	Acute lymphoid leukemia	Benzene	0.39 (0.07-0.7)	0.21 (0.04-0.38)
Poland	Acute lymphoid leukemia	Formaldehyde	0.06 (0.05-0.08)	1.05 (0.3-1.73)
Poland	Chronic myeloid leukemia	Benzene	0.37 (0.07-0.65)	0.34 (0.06-0.6)
Poland	Chronic myeloid leukemia	Formaldehyde	0.06 (0.05-0.07)	0.54 (0.15-0.89)
Poland	Chronic lymphoid leukemia	Benzene	0.19 (0.04-0.33)	0.91 (0.26-1.49)
Poland	Chronic lymphoid leukemia	Formaldehyde	0.03 (0.02-0.03)	1.14 (0.35-1.92)
Poland	Other leukemia	Benzene	0.22 (0.04-0.39)	0.92 (0.27-1.55)
Poland	Other leukemia	Formaldehyde	0.03 (0.03-0.04)	1.41 (0.43-2.31)
Portugal	All leukemia	Benzene	0.4 (0.08-0.71)	0.86 (0.25-1.45)
Portugal	All leukemia	Formaldehyde	0.06 (0.05-0.07)	0.84 (0.26-1.42)
Portugal	Acute myeloid leukemia	Benzene	0.51 (0.1-0.91)	0.3 (0.05-0.54)
Portugal	Acute myeloid leukemia	Formaldehyde	0.08 (0.06-0.09)	0.63 (0.18-1.08)
Portugal	Acute lymphoid leukemia	Benzene	0.49 (0.1-0.88)	0.58 (0.17-0.98)
Portugal	Acute lymphoid leukemia	Formaldehyde	0.07 (0.06-0.09)	0.71 (0.21-1.17)
Portugal	Chronic myeloid leukemia	Benzene	0.42 (0.08-0.76)	0.74 (0.22-1.26)
Portugal	Chronic myeloid leukemia	Formaldehyde	0.06 (0.05-0.08)	0.29 (0.06-0.52)
Portugal	Chronic lymphoid leukemia	Benzene	0.2 (0.04-0.36)	0.35 (0.07-0.63)
Portugal	Chronic lymphoid leukemia	Formaldehyde	0.03 (0.02-0.04)	0.62 (0.18-1.05)
Portugal	Other leukemia	Benzene	0.37 (0.07-0.65)	0.82 (0.24-1.38)
Portugal	Other leukemia	Formaldehyde	0.06 (0.05-0.07)	0.98 (0.29-1.62)
Puerto Rico	All leukemia	Benzene	0.36 (0.07-0.65)	1.02 (0.29-1.76)
Puerto Rico	All leukemia	Formaldehyde	0.04 (0.03-0.05)	0.44 (0.13-0.76)
Puerto Rico	Acute myeloid leukemia	Benzene	0.49 (0.09-0.88)	0.35 (0.07-0.63)
Puerto Rico	Acute myeloid leukemia	Formaldehyde	0.05 (0.04-0.07)	1.1 (0.32-1.85)
Puerto Rico	Acute lymphoid leukemia	Benzene	0.4 (0.07-0.72)	0.4 (0.11-0.69)
Puerto Rico	Acute lymphoid leukemia	Formaldehyde	0.04 (0.04-0.06)	0.85 (0.24-1.4)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
<b>Puerto Rico</b>	<b>Chronic myeloid leukemia</b>	Benzene	0.4 (0.08-0.74)	1 (0.3-1.65)
<b>Puerto Rico</b>	<b>Chronic myeloid leukemia</b>	Formaldehyde	0.05 (0.04-0.05)	1.1 (0.32-1.92)
<b>Puerto Rico</b>	<b>Chronic lymphoid leukemia</b>	Benzene	0.16 (0.03-0.29)	0.29 (0.05-0.53)
<b>Puerto Rico</b>	<b>Chronic lymphoid leukemia</b>	Formaldehyde	0.02 (0.01-0.02)	0.99 (0.3-1.64)
<b>Puerto Rico</b>	<b>Other leukemia</b>	Benzene	0.3 (0.06-0.53)	0.34 (0.07-0.61)
<b>Puerto Rico</b>	<b>Other leukemia</b>	Formaldehyde	0.03 (0.03-0.04)	0.56 (0.17-0.95)
<b>Qatar</b>	<b>All leukemia</b>	Benzene	1.54 (0.45-2.6)	0.35 (0.1-0.69)
<b>Qatar</b>	<b>All leukemia</b>	Formaldehyde	0.44 (0.32-0.59)	0.6 (0.18-0.99)
<b>Qatar</b>	<b>Acute myeloid leukemia</b>	Benzene	1.77 (0.51-3)	0.53 (0.16-0.91)
<b>Qatar</b>	<b>Acute myeloid leukemia</b>	Formaldehyde	0.51 (0.35-0.73)	1.42 (0.42-2.39)
<b>Qatar</b>	<b>Acute lymphoid leukemia</b>	Benzene	1.18 (0.32-2.15)	0.66 (0.2-1.1)
<b>Qatar</b>	<b>Acute lymphoid leukemia</b>	Formaldehyde	0.36 (0.23-0.53)	0.35 (0.07-0.61)
<b>Qatar</b>	<b>Chronic myeloid leukemia</b>	Benzene	2.17 (0.63-3.63)	0.4 (0.08-0.71)
<b>Qatar</b>	<b>Chronic myeloid leukemia</b>	Formaldehyde	0.64 (0.46-0.86)	0.93 (0.27-1.56)
<b>Qatar</b>	<b>Chronic lymphoid leukemia</b>	Benzene	0.75 (0.21-1.25)	0.4 (0.11-0.72)
<b>Qatar</b>	<b>Chronic lymphoid leukemia</b>	Formaldehyde	0.18 (0.14-0.23)	0.61 (0.16-1.05)
<b>Qatar</b>	<b>Other leukemia</b>	Benzene	1.4 (0.4-2.32)	0.72 (0.2-1.22)
<b>Qatar</b>	<b>Other leukemia</b>	Formaldehyde	0.4 (0.28-0.55)	0.34 (0.07-0.61)
<b>Republic of Korea</b>	<b>All leukemia</b>	Benzene	0.61 (0.12-1.09)	0.87 (0.25-1.45)
<b>Republic of Korea</b>	<b>All leukemia</b>	Formaldehyde	0.1 (0.08-0.12)	0.43 (0.08-0.76)
<b>Republic of Korea</b>	<b>Acute myeloid leukemia</b>	Benzene	0.66 (0.13-1.17)	1.08 (0.31-1.86)
<b>Republic of Korea</b>	<b>Acute myeloid leukemia</b>	Formaldehyde	0.1 (0.08-0.13)	0.52 (0.15-0.88)
<b>Republic of Korea</b>	<b>Acute lymphoid leukemia</b>	Benzene	0.47 (0.08-0.85)	1.03 (0.29-1.75)
<b>Republic of Korea</b>	<b>Acute lymphoid leukemia</b>	Formaldehyde	0.07 (0.06-0.1)	0.6 (0.18-1)
<b>Republic of Korea</b>	<b>Chronic myeloid leukemia</b>	Benzene	0.91 (0.15-1.63)	1.01 (0.29-1.67)
<b>Republic of Korea</b>	<b>Chronic myeloid leukemia</b>	Formaldehyde	0.14 (0.11-0.18)	0.55 (0.16-0.93)
<b>Republic of Korea</b>	<b>Chronic lymphoid leukemia</b>	Benzene	0.48 (0.09-0.86)	1.07 (0.32-1.75)
<b>Republic of Korea</b>	<b>Chronic lymphoid leukemia</b>	Formaldehyde	0.08 (0.06-0.09)	1.18 (0.34-1.95)
<b>Republic of Korea</b>	<b>Other leukemia</b>	Benzene	0.58 (0.11-1.04)	0.93 (0.28-1.56)
<b>Republic of Korea</b>	<b>Other leukemia</b>	Formaldehyde	0.09 (0.07-0.11)	0.3 (0.06-0.54)
<b>Republic of Moldova</b>	<b>All leukemia</b>	Benzene	0.27 (0.05-0.5)	0.29 (0.06-0.51)
<b>Republic of Moldova</b>	<b>All leukemia</b>	Formaldehyde	0.04 (0.03-0.04)	0.24 (0.04-0.44)
<b>Republic of Moldova</b>	<b>Acute myeloid leukemia</b>	Benzene	0.34 (0.06-0.63)	1.76 (0.53-2.93)
<b>Republic of Moldova</b>	<b>Acute myeloid leukemia</b>	Formaldehyde	0.04 (0.03-0.05)	0.51 (0.1-0.92)
<b>Republic of Moldova</b>	<b>Acute lymphoid leukemia</b>	Benzene	0.22 (0.04-0.4)	0.31 (0.06-0.55)
<b>Republic of Moldova</b>	<b>Acute lymphoid leukemia</b>	Formaldehyde	0.03 (0.02-0.04)	0.32 (0.06-0.58)
<b>Republic of Moldova</b>	<b>Chronic myeloid leukemia</b>	Benzene	0.34 (0.06-0.62)	0.43 (0.08-0.77)
<b>Republic of Moldova</b>	<b>Chronic myeloid leukemia</b>	Formaldehyde	0.04 (0.04-0.05)	0.52 (0.15-0.92)
<b>Republic of Moldova</b>	<b>Chronic lymphoid leukemia</b>	Benzene	0.17 (0.03-0.31)	0.85 (0.24-1.49)
<b>Republic of Moldova</b>	<b>Chronic lymphoid leukemia</b>	Formaldehyde	0.02 (0.02-0.03)	0.81 (0.24-1.35)
<b>Republic of Moldova</b>	<b>Other leukemia</b>	Benzene	0.29 (0.05-0.53)	0.78 (0.22-1.28)
<b>Republic of Moldova</b>	<b>Other leukemia</b>	Formaldehyde	0.04 (0.03-0.05)	0.53 (0.15-0.93)
<b>Romania</b>	<b>All leukemia</b>	Benzene	0.43 (0.08-0.76)	0.29 (0.05-0.52)
<b>Romania</b>	<b>All leukemia</b>	Formaldehyde	0.08 (0.07-0.1)	0.59 (0.17-0.97)



Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Romania	Acute myeloid leukemia	Benzene	0.5 (0.1-0.89)	1.61 (0.5-2.69)
Romania	Acute myeloid leukemia	Formaldehyde	0.1 (0.08-0.11)	0.44 (0.13-0.75)
Romania	Acute lymphoid leukemia	Benzene	0.35 (0.06-0.62)	0.3 (0.06-0.54)
Romania	Acute lymphoid leukemia	Formaldehyde	0.07 (0.05-0.08)	1.07 (0.31-1.76)
Romania	Chronic myeloid leukemia	Benzene	0.52 (0.09-0.92)	0.46 (0.13-0.81)
Romania	Chronic myeloid leukemia	Formaldehyde	0.1 (0.08-0.12)	0.64 (0.12-1.13)
Romania	Chronic lymphoid leukemia	Benzene	0.29 (0.05-0.52)	0.37 (0.07-0.66)
Romania	Chronic lymphoid leukemia	Formaldehyde	0.06 (0.04-0.07)	0.24 (0.05-0.43)
Romania	Other leukemia	Benzene	0.46 (0.09-0.81)	1.41 (0.43-2.49)
Romania	Other leukemia	Formaldehyde	0.09 (0.07-0.1)	0.4 (0.12-0.71)
Russian Federation	All leukemia	Benzene	0.46 (0.08-0.82)	0.48 (0.14-0.81)
Russian Federation	All leukemia	Formaldehyde	0.06 (0.05-0.07)	0.31 (0.09-0.57)
Russian Federation	Acute myeloid leukemia	Benzene	0.6 (0.11-1.07)	0.23 (0.04-0.41)
Russian Federation	Acute myeloid leukemia	Formaldehyde	0.07 (0.06-0.09)	0.68 (0.19-1.12)
Russian Federation	Acute lymphoid leukemia	Benzene	0.47 (0.09-0.83)	0.64 (0.19-1.08)
Russian Federation	Acute lymphoid leukemia	Formaldehyde	0.06 (0.05-0.07)	1.01 (0.3-1.67)
Russian Federation	Chronic myeloid leukemia	Benzene	0.49 (0.09-0.88)	0.33 (0.06-0.59)
Russian Federation	Chronic myeloid leukemia	Formaldehyde	0.06 (0.05-0.07)	0.36 (0.06-0.65)
Russian Federation	Chronic lymphoid leukemia	Benzene	0.27 (0.05-0.49)	0.48 (0.14-0.81)
Russian Federation	Chronic lymphoid leukemia	Formaldehyde	0.03 (0.03-0.04)	0.63 (0.18-1.05)
Russian Federation	Other leukemia	Benzene	0.43 (0.08-0.78)	0.65 (0.19-1.1)
Russian Federation	Other leukemia	Formaldehyde	0.05 (0.04-0.06)	0.68 (0.2-1.15)
Rwanda	All leukemia	Benzene	0.3 (0.08-0.51)	0.58 (0.17-1)
Rwanda	All leukemia	Formaldehyde	0.09 (0.07-0.12)	0.7 (0.21-1.16)
Rwanda	Acute myeloid leukemia	Benzene	0.39 (0.11-0.77)	0.85 (0.24-1.44)
Rwanda	Acute myeloid leukemia	Formaldehyde	0.12 (0.07-0.18)	0.53 (0.16-0.89)
Rwanda	Acute lymphoid leukemia	Benzene	0.16 (0.04-0.34)	0.91 (0.26-1.52)
Rwanda	Acute lymphoid leukemia	Formaldehyde	0.05 (0.03-0.08)	0.51 (0.15-0.86)
Rwanda	Chronic myeloid leukemia	Benzene	0.49 (0.13-0.92)	0.54 (0.16-0.89)
Rwanda	Chronic myeloid leukemia	Formaldehyde	0.15 (0.08-0.22)	0.8 (0.23-1.36)
Rwanda	Chronic lymphoid leukemia	Benzene	0.23 (0.07-0.39)	0.96 (0.28-1.6)
Rwanda	Chronic lymphoid leukemia	Formaldehyde	0.07 (0.05-0.09)	0.46 (0.13-0.8)
Rwanda	Other leukemia	Benzene	0.27 (0.07-0.48)	0.4 (0.07-0.72)
Rwanda	Other leukemia	Formaldehyde	0.08 (0.06-0.12)	1.94 (0.59-3.31)
Saint Kitts and Nevis	All leukemia	Benzene	0.94 (0.27-1.55)	0.34 (0.06-0.62)
Saint Kitts and Nevis	All leukemia	Formaldehyde	0.29 (0.24-0.35)	0.47 (0.14-0.82)
Saint Kitts and Nevis	Acute myeloid leukemia	Benzene	1.08 (0.32-1.82)	0.34 (0.06-0.6)
Saint Kitts and Nevis	Acute myeloid leukemia	Formaldehyde	0.35 (0.27-0.44)	0.74 (0.21-1.22)
Saint Kitts and Nevis	Acute lymphoid leukemia	Benzene	0.6 (0.16-1.07)	0.67 (0.19-1.13)
Saint Kitts and Nevis	Acute lymphoid leukemia	Formaldehyde	0.19 (0.14-0.25)	1.17 (0.35-1.93)
Saint Kitts and Nevis	Chronic myeloid leukemia	Benzene	1.13 (0.34-1.86)	1 (0.3-1.66)
Saint Kitts and Nevis	Chronic myeloid leukemia	Formaldehyde	0.36 (0.29-0.43)	0.89 (0.26-1.47)
Saint Kitts and Nevis	Chronic lymphoid leukemia	Benzene	0.53 (0.16-0.88)	0.76 (0.23-1.26)
Saint Kitts and Nevis	Chronic lymphoid leukemia	Formaldehyde	0.18 (0.13-0.22)	0.51 (0.15-0.88)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Saint Kitts and Nevis	Other leukemia	Benzene	1 (0.29-1.63)	0.67 (0.2-1.23)
Saint Kitts and Nevis	Other leukemia	Formaldehyde	0.3 (0.24-0.37)	0.65 (0.19-1.1)
Saint Lucia	All leukemia	Benzene	0.63 (0.18-1.04)	0.45 (0.13-0.79)
Saint Lucia	All leukemia	Formaldehyde	0.24 (0.19-0.28)	0.32 (0.06-0.58)
Saint Lucia	Acute myeloid leukemia	Benzene	0.78 (0.23-1.32)	0.53 (0.16-0.92)
Saint Lucia	Acute myeloid leukemia	Formaldehyde	0.29 (0.23-0.37)	0.71 (0.2-1.18)
Saint Lucia	Acute lymphoid leukemia	Benzene	0.43 (0.13-0.72)	0.31 (0.05-0.56)
Saint Lucia	Acute lymphoid leukemia	Formaldehyde	0.16 (0.12-0.21)	0.71 (0.2-1.27)
Saint Lucia	Chronic myeloid leukemia	Benzene	0.79 (0.23-1.31)	0.9 (0.27-1.51)
Saint Lucia	Chronic myeloid leukemia	Formaldehyde	0.3 (0.24-0.36)	0.7 (0.21-1.16)
Saint Lucia	Chronic lymphoid leukemia	Benzene	0.38 (0.11-0.64)	0.68 (0.2-1.13)
Saint Lucia	Chronic lymphoid leukemia	Formaldehyde	0.14 (0.11-0.17)	0.21 (0.04-0.38)
Saint Lucia	Other leukemia	Benzene	0.66 (0.19-1.09)	0.24 (0.04-0.44)
Saint Lucia	Other leukemia	Formaldehyde	0.25 (0.2-0.3)	0.95 (0.29-1.62)
Saint Vincent and the Grenadines	All leukemia	Benzene	0.6 (0.18-1.01)	1.27 (0.38-2.14)
Saint Vincent and the Grenadines	All leukemia	Formaldehyde	0.2 (0.16-0.24)	1.32 (0.37-2.3)
Saint Vincent and the Grenadines	Acute myeloid leukemia	Benzene	0.69 (0.2-1.21)	0.5 (0.14-0.86)
Saint Vincent and the Grenadines	Acute myeloid leukemia	Formaldehyde	0.23 (0.17-0.3)	0.68 (0.2-1.12)
Saint Vincent and the Grenadines	Acute lymphoid leukemia	Benzene	0.41 (0.12-0.72)	0.33 (0.06-0.6)
Saint Vincent and the Grenadines	Acute lymphoid leukemia	Formaldehyde	0.14 (0.09-0.19)	0.21 (0.04-0.38)
Saint Vincent and the Grenadines	Chronic myeloid leukemia	Benzene	0.72 (0.22-1.22)	1.33 (0.39-2.19)
Saint Vincent and the Grenadines	Chronic myeloid leukemia	Formaldehyde	0.23 (0.17-0.31)	0.6 (0.17-1.01)
Saint Vincent and the Grenadines	Chronic lymphoid leukemia	Benzene	0.4 (0.12-0.69)	0.6 (0.18-0.99)
Saint Vincent and the Grenadines	Chronic lymphoid leukemia	Formaldehyde	0.13 (0.1-0.17)	0.63 (0.19-1.11)
Saint Vincent and the Grenadines	Other leukemia	Benzene	0.59 (0.17-1)	0.98 (0.28-1.64)
Saint Vincent and the Grenadines	Other leukemia	Formaldehyde	0.2 (0.16-0.25)	0.21 (0.04-0.37)
Samoa	All leukemia	Benzene	0.51 (0.14-0.87)	0.87 (0.26-1.48)
Samoa	All leukemia	Formaldehyde	0.18 (0.14-0.23)	0.67 (0.19-1.1)
Samoa	Acute myeloid leukemia	Benzene	0.66 (0.19-1.14)	1.03 (0.2-1.86)
Samoa	Acute myeloid leukemia	Formaldehyde	0.24 (0.18-0.31)	0.39 (0.07-0.7)
Samoa	Acute lymphoid leukemia	Benzene	0.5 (0.14-0.9)	0.35 (0.1-0.61)
Samoa	Acute lymphoid leukemia	Formaldehyde	0.18 (0.12-0.24)	0.5 (0.14-0.88)
Samoa	Chronic myeloid leukemia	Benzene	0.55 (0.16-0.98)	0.44 (0.14-0.75)
Samoa	Chronic myeloid leukemia	Formaldehyde	0.21 (0.15-0.28)	0.75 (0.22-1.24)
Samoa	Chronic lymphoid leukemia	Benzene	0.4 (0.11-0.7)	0.75 (0.23-1.26)
Samoa	Chronic lymphoid leukemia	Formaldehyde	0.15 (0.11-0.2)	0.24 (0.04-0.44)
Samoa	Other leukemia	Benzene	0.43 (0.13-0.74)	0.45 (0.13-0.77)
Samoa	Other leukemia	Formaldehyde	0.15 (0.12-0.2)	0.38 (0.11-0.67)
San Marino	All leukemia	Benzene	0.29 (0.06-0.53)	0.59 (0.17-0.99)
San Marino	All leukemia	Formaldehyde	0.04 (0.03-0.04)	0.66 (0.19-1.08)
San Marino	Acute myeloid leukemia	Benzene	0.32 (0.06-0.59)	0.9 (0.26-1.51)
San Marino	Acute myeloid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.63 (0.18-1.09)
San Marino	Acute lymphoid leukemia	Benzene	0.44 (0.09-0.81)	0.77 (0.22-1.32)
San Marino	Acute lymphoid leukemia	Formaldehyde	0.05 (0.04-0.06)	0.71 (0.2-1.18)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
San Marino	Chronic myeloid leukemia	Benzene	0.33 (0.07-0.61)	0.7 (0.21-1.18)
San Marino	Chronic myeloid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.18 (0.03-0.33)
San Marino	Chronic lymphoid leukemia	Benzene	0.26 (0.05-0.48)	0.6 (0.18-0.99)
San Marino	Chronic lymphoid leukemia	Formaldehyde	0.03 (0.02-0.04)	0.29 (0.06-0.53)
San Marino	Other leukemia	Benzene	0.24 (0.04-0.43)	0.23 (0.05-0.42)
San Marino	Other leukemia	Formaldehyde	0.03 (0.02-0.04)	0.67 (0.19-1.13)
Sao Tome and Principe	All leukemia	Benzene	0.31 (0.09-0.54)	0.79 (0.24-1.34)
Sao Tome and Principe	All leukemia	Formaldehyde	0.09 (0.06-0.12)	0.65 (0.19-1.13)
Sao Tome and Principe	Acute myeloid leukemia	Benzene	0.32 (0.08-0.6)	0.26 (0.05-0.46)
Sao Tome and Principe	Acute myeloid leukemia	Formaldehyde	0.09 (0.05-0.14)	0.41 (0.11-0.7)
Sao Tome and Principe	Acute lymphoid leukemia	Benzene	0.2 (0.06-0.38)	0.58 (0.17-0.97)
Sao Tome and Principe	Acute lymphoid leukemia	Formaldehyde	0.06 (0.03-0.09)	1.02 (0.3-1.71)
Sao Tome and Principe	Chronic myeloid leukemia	Benzene	0.61 (0.18-1.03)	1.07 (0.31-1.8)
Sao Tome and Principe	Chronic myeloid leukemia	Formaldehyde	0.17 (0.12-0.24)	0.6 (0.17-1.06)
Sao Tome and Principe	Chronic lymphoid leukemia	Benzene	0.15 (0.04-0.25)	0.99 (0.28-1.64)
Sao Tome and Principe	Chronic lymphoid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.99 (0.27-1.76)
Sao Tome and Principe	Other leukemia	Benzene	0.31 (0.09-0.54)	0.62 (0.18-1.08)
Sao Tome and Principe	Other leukemia	Formaldehyde	0.1 (0.07-0.13)	0.19 (0.04-0.35)
Saudi Arabia	All leukemia	Benzene	0.68 (0.2-1.15)	0.54 (0.16-0.93)
Saudi Arabia	All leukemia	Formaldehyde	0.19 (0.14-0.25)	0.46 (0.12-0.93)
Saudi Arabia	Acute myeloid leukemia	Benzene	0.77 (0.22-1.34)	0.65 (0.19-1.11)
Saudi Arabia	Acute myeloid leukemia	Formaldehyde	0.21 (0.14-0.3)	0.21 (0.04-0.39)
Saudi Arabia	Acute lymphoid leukemia	Benzene	0.5 (0.14-0.91)	0.2 (0.04-0.36)
Saudi Arabia	Acute lymphoid leukemia	Formaldehyde	0.14 (0.08-0.22)	0.51 (0.15-0.88)
Saudi Arabia	Chronic myeloid leukemia	Benzene	0.92 (0.28-1.55)	0.57 (0.16-0.97)
Saudi Arabia	Chronic myeloid leukemia	Formaldehyde	0.26 (0.19-0.35)	0.68 (0.2-1.13)
Saudi Arabia	Chronic lymphoid leukemia	Benzene	0.39 (0.11-0.68)	0.21 (0.04-0.4)
Saudi Arabia	Chronic lymphoid leukemia	Formaldehyde	0.11 (0.07-0.15)	0.76 (0.23-1.28)
Saudi Arabia	Other leukemia	Benzene	0.69 (0.18-1.26)	0.12 (0.02-0.22)
Saudi Arabia	Other leukemia	Formaldehyde	0.19 (0.11-0.29)	0.29 (0.05-0.51)
Senegal	All leukemia	Benzene	0.33 (0.09-0.58)	0.84 (0.25-1.4)
Senegal	All leukemia	Formaldehyde	0.14 (0.1-0.18)	0.71 (0.21-1.18)
Senegal	Acute myeloid leukemia	Benzene	0.28 (0.08-0.53)	1.08 (0.33-1.81)
Senegal	Acute myeloid leukemia	Formaldehyde	0.11 (0.06-0.17)	0.49 (0.14-0.83)
Senegal	Acute lymphoid leukemia	Benzene	0.22 (0.06-0.41)	0.64 (0.19-1.08)
Senegal	Acute lymphoid leukemia	Formaldehyde	0.09 (0.05-0.13)	1 (0.29-1.67)
Senegal	Chronic myeloid leukemia	Benzene	0.73 (0.21-1.24)	0.58 (0.16-0.98)
Senegal	Chronic myeloid leukemia	Formaldehyde	0.29 (0.2-0.42)	0.79 (0.22-1.34)
Senegal	Chronic lymphoid leukemia	Benzene	0.16 (0.05-0.27)	0.28 (0.05-0.51)
Senegal	Chronic lymphoid leukemia	Formaldehyde	0.06 (0.04-0.08)	0.33 (0.06-0.6)
Senegal	Other leukemia	Benzene	0.34 (0.09-0.59)	0.49 (0.14-0.82)
Senegal	Other leukemia	Formaldehyde	0.15 (0.1-0.2)	0.84 (0.25-1.38)
Serbia	All leukemia	Benzene	0.28 (0.05-0.51)	0.34 (0.1-0.57)
Serbia	All leukemia	Formaldehyde	0.04 (0.03-0.05)	0.65 (0.19-1.11)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Serbia	Acute myeloid leukemia	Benzene	0.39 (0.07-0.73)	0.23 (0.04-0.42)
Serbia	Acute myeloid leukemia	Formaldehyde	0.06 (0.04-0.07)	0.32 (0.06-0.58)
Serbia	Acute lymphoid leukemia	Benzene	0.36 (0.07-0.67)	0.16 (0.03-0.29)
Serbia	Acute lymphoid leukemia	Formaldehyde	0.06 (0.04-0.07)	1.15 (0.32-1.89)
Serbia	Chronic myeloid leukemia	Benzene	0.36 (0.06-0.68)	0.25 (0.05-0.46)
Serbia	Chronic myeloid leukemia	Formaldehyde	0.05 (0.04-0.07)	0.53 (0.15-0.87)
Serbia	Chronic lymphoid leukemia	Benzene	0.27 (0.05-0.5)	0.6 (0.17-1.03)
Serbia	Chronic lymphoid leukemia	Formaldehyde	0.04 (0.03-0.05)	1.04 (0.31-1.76)
Serbia	Other leukemia	Benzene	0.23 (0.04-0.42)	0.88 (0.26-1.5)
Serbia	Other leukemia	Formaldehyde	0.03 (0.03-0.04)	1.27 (0.39-2.1)
Seychelles	All leukemia	Benzene	0.76 (0.22-1.28)	0.82 (0.24-1.39)
Seychelles	All leukemia	Formaldehyde	0.29 (0.23-0.35)	0.86 (0.26-1.45)
Seychelles	Acute myeloid leukemia	Benzene	0.91 (0.26-1.54)	0.35 (0.06-0.62)
Seychelles	Acute myeloid leukemia	Formaldehyde	0.34 (0.26-0.45)	0.42 (0.12-0.73)
Seychelles	Acute lymphoid leukemia	Benzene	0.8 (0.23-1.39)	0.65 (0.2-1.13)
Seychelles	Acute lymphoid leukemia	Formaldehyde	0.3 (0.22-0.4)	0.71 (0.21-1.2)
Seychelles	Chronic myeloid leukemia	Benzene	1.37 (0.41-2.34)	0.56 (0.17-0.99)
Seychelles	Chronic myeloid leukemia	Formaldehyde	0.52 (0.38-0.7)	0.2 (0.04-0.37)
Seychelles	Chronic lymphoid leukemia	Benzene	0.4 (0.12-0.67)	0.3 (0.06-0.53)
Seychelles	Chronic lymphoid leukemia	Formaldehyde	0.15 (0.12-0.19)	0.58 (0.17-1.01)
Seychelles	Other leukemia	Benzene	0.76 (0.22-1.3)	0.75 (0.21-1.28)
Seychelles	Other leukemia	Formaldehyde	0.29 (0.22-0.36)	0.93 (0.26-1.55)
Sierra Leone	All leukemia	Benzene	0.27 (0.08-0.51)	0.68 (0.19-1.16)
Sierra Leone	All leukemia	Formaldehyde	0.08 (0.05-0.11)	0.51 (0.15-0.86)
Sierra Leone	Acute myeloid leukemia	Benzene	0.25 (0.06-0.53)	0.25 (0.05-0.46)
Sierra Leone	Acute myeloid leukemia	Formaldehyde	0.07 (0.03-0.12)	0.99 (0.3-1.69)
Sierra Leone	Acute lymphoid leukemia	Benzene	0.17 (0.04-0.35)	0.41 (0.12-0.72)
Sierra Leone	Acute lymphoid leukemia	Formaldehyde	0.05 (0.02-0.08)	0.79 (0.22-1.32)
Sierra Leone	Chronic myeloid leukemia	Benzene	0.59 (0.17-1.05)	0.92 (0.27-1.52)
Sierra Leone	Chronic myeloid leukemia	Formaldehyde	0.16 (0.11-0.22)	0.99 (0.29-1.72)
Sierra Leone	Chronic lymphoid leukemia	Benzene	0.15 (0.04-0.25)	0.26 (0.05-0.47)
Sierra Leone	Chronic lymphoid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.59 (0.15-1.35)
Sierra Leone	Other leukemia	Benzene	0.27 (0.08-0.49)	0.26 (0.05-0.47)
Sierra Leone	Other leukemia	Formaldehyde	0.08 (0.05-0.11)	0.44 (0.13-0.75)
Singapore	All leukemia	Benzene	0.59 (0.11-1.06)	0.32 (0.09-0.62)
Singapore	All leukemia	Formaldehyde	0.08 (0.07-0.09)	0.6 (0.18-1.01)
Singapore	Acute myeloid leukemia	Benzene	0.61 (0.11-1.08)	0.56 (0.17-0.97)
Singapore	Acute myeloid leukemia	Formaldehyde	0.08 (0.07-0.1)	1.32 (0.39-2.25)
Singapore	Acute lymphoid leukemia	Benzene	0.59 (0.11-1.05)	0.59 (0.17-1.01)
Singapore	Acute lymphoid leukemia	Formaldehyde	0.08 (0.06-0.1)	0.24 (0.05-0.43)
Singapore	Chronic myeloid leukemia	Benzene	0.77 (0.15-1.37)	0.29 (0.05-0.52)
Singapore	Chronic myeloid leukemia	Formaldehyde	0.1 (0.09-0.13)	0.93 (0.27-1.56)
Singapore	Chronic lymphoid leukemia	Benzene	0.31 (0.06-0.56)	0.44 (0.12-0.8)
Singapore	Chronic lymphoid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.61 (0.17-1.05)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Singapore	Other leukemia	Benzene	0.46 (0.09-0.83)	0.55 (0.15-0.95)
Singapore	Other leukemia	Formaldehyde	0.06 (0.05-0.07)	0.39 (0.07-0.72)
Slovakia	All leukemia	Benzene	0.36 (0.07-0.64)	0.75 (0.22-1.25)
Slovakia	All leukemia	Formaldehyde	0.05 (0.04-0.06)	0.32 (0.06-0.58)
Slovakia	Acute myeloid leukemia	Benzene	0.44 (0.08-0.81)	0.77 (0.21-1.33)
Slovakia	Acute myeloid leukemia	Formaldehyde	0.06 (0.05-0.08)	0.5 (0.15-0.88)
Slovakia	Acute lymphoid leukemia	Benzene	0.44 (0.08-0.8)	0.73 (0.2-1.32)
Slovakia	Acute lymphoid leukemia	Formaldehyde	0.06 (0.05-0.08)	0.56 (0.16-0.93)
Slovakia	Chronic myeloid leukemia	Benzene	0.4 (0.07-0.71)	0.92 (0.27-1.55)
Slovakia	Chronic myeloid leukemia	Formaldehyde	0.06 (0.05-0.08)	0.48 (0.14-0.82)
Slovakia	Chronic lymphoid leukemia	Benzene	0.17 (0.03-0.31)	0.99 (0.3-1.63)
Slovakia	Chronic lymphoid leukemia	Formaldehyde	0.03 (0.02-0.03)	1.21 (0.35-1.98)
Slovakia	Other leukemia	Benzene	0.33 (0.06-0.61)	0.92 (0.27-1.54)
Slovakia	Other leukemia	Formaldehyde	0.05 (0.04-0.06)	0.22 (0.04-0.39)
Slovenia	All leukemia	Benzene	0.3 (0.06-0.54)	0.21 (0.04-0.39)
Slovenia	All leukemia	Formaldehyde	0.05 (0.04-0.06)	0.18 (0.03-0.32)
Slovenia	Acute myeloid leukemia	Benzene	0.4 (0.07-0.7)	1.66 (0.49-2.73)
Slovenia	Acute myeloid leukemia	Formaldehyde	0.06 (0.05-0.08)	0.36 (0.07-0.65)
Slovenia	Acute lymphoid leukemia	Benzene	0.49 (0.09-0.89)	0.31 (0.06-0.54)
Slovenia	Acute lymphoid leukemia	Formaldehyde	0.08 (0.06-0.1)	0.31 (0.06-0.55)
Slovenia	Chronic myeloid leukemia	Benzene	0.41 (0.08-0.74)	0.37 (0.07-0.68)
Slovenia	Chronic myeloid leukemia	Formaldehyde	0.07 (0.06-0.08)	0.49 (0.13-0.86)
Slovenia	Chronic lymphoid leukemia	Benzene	0.15 (0.03-0.26)	0.86 (0.24-1.51)
Slovenia	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.02-0.03)	0.77 (0.23-1.27)
Slovenia	Other leukemia	Benzene	0.26 (0.05-0.45)	0.77 (0.22-1.28)
Slovenia	Other leukemia	Formaldehyde	0.04 (0.03-0.05)	0.45 (0.13-0.78)
Solomon Islands	All leukemia	Benzene	0.47 (0.14-0.86)	0.2 (0.04-0.38)
Solomon Islands	All leukemia	Formaldehyde	0.17 (0.11-0.24)	0.53 (0.15-0.88)
Solomon Islands	Acute myeloid leukemia	Benzene	0.55 (0.16-0.98)	1.56 (0.44-2.67)
Solomon Islands	Acute myeloid leukemia	Formaldehyde	0.2 (0.13-0.28)	0.45 (0.14-0.78)
Solomon Islands	Acute lymphoid leukemia	Benzene	0.33 (0.09-0.65)	0.23 (0.04-0.42)
Solomon Islands	Acute lymphoid leukemia	Formaldehyde	0.12 (0.07-0.22)	1.01 (0.29-1.69)
Solomon Islands	Chronic myeloid leukemia	Benzene	0.59 (0.16-1.13)	0.47 (0.14-0.81)
Solomon Islands	Chronic myeloid leukemia	Formaldehyde	0.23 (0.11-0.36)	0.46 (0.09-0.82)
Solomon Islands	Chronic lymphoid leukemia	Benzene	0.39 (0.11-0.72)	0.31 (0.06-0.57)
Solomon Islands	Chronic lymphoid leukemia	Formaldehyde	0.15 (0.1-0.21)	0.19 (0.04-0.35)
Solomon Islands	Other leukemia	Benzene	0.44 (0.13-0.81)	1.32 (0.4-2.35)
Solomon Islands	Other leukemia	Formaldehyde	0.16 (0.1-0.23)	0.38 (0.11-0.68)
Somalia	All leukemia	Benzene	0.3 (0.09-0.53)	0.54 (0.15-0.94)
Somalia	All leukemia	Formaldehyde	0.1 (0.07-0.14)	0.26 (0.07-0.51)
Somalia	Acute myeloid leukemia	Benzene	0.43 (0.12-0.87)	0.18 (0.03-0.33)
Somalia	Acute myeloid leukemia	Formaldehyde	0.15 (0.08-0.25)	0.57 (0.16-0.95)
Somalia	Acute lymphoid leukemia	Benzene	0.2 (0.05-0.44)	0.55 (0.15-0.95)
Somalia	Acute lymphoid leukemia	Formaldehyde	0.07 (0.03-0.13)	1 (0.29-1.65)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Somalia	Chronic myeloid leukemia	Benzene	0.51 (0.12-1.03)	0.27 (0.05-0.48)
Somalia	Chronic myeloid leukemia	Formaldehyde	0.18 (0.08-0.28)	0.27 (0.05-0.48)
Somalia	Chronic lymphoid leukemia	Benzene	0.26 (0.07-0.47)	0.45 (0.13-0.76)
Somalia	Chronic lymphoid leukemia	Formaldehyde	0.09 (0.07-0.12)	0.54 (0.15-0.91)
Somalia	Other leukemia	Benzene	0.27 (0.08-0.51)	0.65 (0.19-1.11)
Somalia	Other leukemia	Formaldehyde	0.1 (0.06-0.14)	0.67 (0.2-1.13)
South Africa	All leukemia	Benzene	0.88 (0.26-1.47)	0.58 (0.17-1.01)
South Africa	All leukemia	Formaldehyde	0.3 (0.24-0.38)	0.67 (0.2-1.13)
South Africa	Acute myeloid leukemia	Benzene	1.3 (0.38-2.19)	0.7 (0.21-1.19)
South Africa	Acute myeloid leukemia	Formaldehyde	0.46 (0.36-0.59)	0.42 (0.12-0.71)
South Africa	Acute lymphoid leukemia	Benzene	0.78 (0.22-1.37)	0.82 (0.24-1.37)
South Africa	Acute lymphoid leukemia	Formaldehyde	0.28 (0.18-0.41)	0.31 (0.08-0.53)
South Africa	Chronic myeloid leukemia	Benzene	1.15 (0.34-1.91)	0.4 (0.12-0.66)
South Africa	Chronic myeloid leukemia	Formaldehyde	0.41 (0.32-0.53)	0.81 (0.24-1.39)
South Africa	Chronic lymphoid leukemia	Benzene	0.61 (0.17-1.04)	0.81 (0.24-1.36)
South Africa	Chronic lymphoid leukemia	Formaldehyde	0.18 (0.13-0.23)	0.41 (0.11-0.71)
South Africa	Other leukemia	Benzene	0.96 (0.28-1.61)	0.37 (0.07-0.67)
South Africa	Other leukemia	Formaldehyde	0.34 (0.27-0.43)	1.62 (0.48-2.91)
South Sudan	All leukemia	Benzene	0.21 (0.05-0.43)	0.26 (0.05-0.46)
South Sudan	All leukemia	Formaldehyde	0.08 (0.04-0.13)	0.4 (0.12-0.72)
South Sudan	Acute myeloid leukemia	Benzene	0.34 (0.09-0.73)	0.27 (0.05-0.48)
South Sudan	Acute myeloid leukemia	Formaldehyde	0.13 (0.06-0.23)	0.7 (0.2-1.16)
South Sudan	Acute lymphoid leukemia	Benzene	0.15 (0.03-0.39)	0.66 (0.2-1.12)
South Sudan	Acute lymphoid leukemia	Formaldehyde	0.06 (0.02-0.13)	1.19 (0.35-1.96)
South Sudan	Chronic myeloid leukemia	Benzene	0.36 (0.07-0.86)	0.88 (0.27-1.46)
South Sudan	Chronic myeloid leukemia	Formaldehyde	0.14 (0.04-0.27)	0.85 (0.25-1.41)
South Sudan	Chronic lymphoid leukemia	Benzene	0.2 (0.06-0.34)	0.66 (0.2-1.09)
South Sudan	Chronic lymphoid leukemia	Formaldehyde	0.08 (0.06-0.1)	0.43 (0.12-0.77)
South Sudan	Other leukemia	Benzene	0.18 (0.05-0.39)	0.63 (0.18-1.15)
South Sudan	Other leukemia	Formaldehyde	0.07 (0.03-0.13)	0.6 (0.17-1.01)
Spain	All leukemia	Benzene	0.27 (0.05-0.48)	0.18 (0.13-0.24)
Spain	All leukemia	Formaldehyde	0.04 (0.03-0.05)	0.03 (0.02-0.04)
Spain	Acute myeloid leukemia	Benzene	0.32 (0.06-0.58)	0.15 (0.12-0.18)
Spain	Acute myeloid leukemia	Formaldehyde	0.05 (0.04-0.05)	0.28 (0.23-0.36)
Spain	Acute lymphoid leukemia	Benzene	0.35 (0.07-0.64)	0.04 (0.03-0.05)
Spain	Acute lymphoid leukemia	Formaldehyde	0.05 (0.04-0.06)	0.25 (0.18-0.33)
Spain	Chronic myeloid leukemia	Benzene	0.32 (0.06-0.58)	0.23 (0.19-0.27)
Spain	Chronic myeloid leukemia	Formaldehyde	0.05 (0.04-0.06)	0.24 (0.2-0.29)
Spain	Chronic lymphoid leukemia	Benzene	0.14 (0.02-0.24)	0.19 (0.16-0.22)
Spain	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.02-0.02)	0.03 (0.03-0.04)
Spain	Other leukemia	Benzene	0.26 (0.05-0.46)	0.03 (0.03-0.04)
Spain	Other leukemia	Formaldehyde	0.04 (0.03-0.04)	0.25 (0.2-0.31)
Sri Lanka	All leukemia	Benzene	0.45 (0.13-0.75)	0.28 (0.24-0.33)
Sri Lanka	All leukemia	Formaldehyde	0.19 (0.15-0.23)	0.37 (0.29-0.48)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Sri Lanka	Acute myeloid leukemia	Benzene	0.52 (0.15-0.86)	0.22 (0.17-0.29)
Sri Lanka	Acute myeloid leukemia	Formaldehyde	0.22 (0.18-0.27)	0.21 (0.17-0.24)
Sri Lanka	Acute lymphoid leukemia	Benzene	0.42 (0.12-0.72)	0.05 (0.04-0.06)
Sri Lanka	Acute lymphoid leukemia	Formaldehyde	0.17 (0.12-0.23)	0.02 (0.02-0.03)
Sri Lanka	Chronic myeloid leukemia	Benzene	0.62 (0.18-1.05)	0.35 (0.29-0.42)
Sri Lanka	Chronic myeloid leukemia	Formaldehyde	0.26 (0.21-0.33)	0.24 (0.17-0.31)
Sri Lanka	Chronic lymphoid leukemia	Benzene	0.36 (0.1-0.6)	0.15 (0.13-0.18)
Sri Lanka	Chronic lymphoid leukemia	Formaldehyde	0.15 (0.12-0.19)	0.19 (0.15-0.24)
Sri Lanka	Other leukemia	Benzene	0.42 (0.12-0.72)	0.3 (0.24-0.36)
Sri Lanka	Other leukemia	Formaldehyde	0.18 (0.15-0.22)	0.03 (0.02-0.03)
Sudan	All leukemia	Benzene	0.34 (0.1-0.63)	0.19 (0.14-0.25)
Sudan	All leukemia	Formaldehyde	0.13 (0.08-0.19)	0.24 (0.2-0.28)
Sudan	Acute myeloid leukemia	Benzene	0.51 (0.14-0.94)	0.08 (0.06-0.09)
Sudan	Acute myeloid leukemia	Formaldehyde	0.19 (0.12-0.27)	0.05 (0.04-0.06)
Sudan	Acute lymphoid leukemia	Benzene	0.34 (0.09-0.68)	0.11 (0.08-0.15)
Sudan	Acute lymphoid leukemia	Formaldehyde	0.13 (0.07-0.21)	0.19 (0.14-0.24)
Sudan	Chronic myeloid leukemia	Benzene	0.43 (0.12-0.82)	0.14 (0.11-0.18)
Sudan	Chronic myeloid leukemia	Formaldehyde	0.16 (0.08-0.24)	0.32 (0.26-0.39)
Sudan	Chronic lymphoid leukemia	Benzene	0.47 (0.14-0.83)	0.22 (0.18-0.28)
Sudan	Chronic lymphoid leukemia	Formaldehyde	0.17 (0.13-0.24)	0.03 (0.03-0.04)
Sudan	Other leukemia	Benzene	0.29 (0.08-0.53)	0.16 (0.13-0.21)
Sudan	Other leukemia	Formaldehyde	0.11 (0.06-0.15)	0.12 (0.08-0.17)
Suriname	All leukemia	Benzene	0.72 (0.21-1.19)	0.22 (0.19-0.26)
Suriname	All leukemia	Formaldehyde	0.2 (0.16-0.24)	0.31 (0.26-0.37)
Suriname	Acute myeloid leukemia	Benzene	0.87 (0.26-1.43)	0.33 (0.27-0.39)
Suriname	Acute myeloid leukemia	Formaldehyde	0.24 (0.19-0.32)	0.21 (0.15-0.27)
Suriname	Acute lymphoid leukemia	Benzene	0.45 (0.13-0.8)	0.23 (0.18-0.29)
Suriname	Acute lymphoid leukemia	Formaldehyde	0.12 (0.09-0.18)	0.22 (0.17-0.27)
Suriname	Chronic myeloid leukemia	Benzene	0.93 (0.27-1.55)	0.27 (0.22-0.31)
Suriname	Chronic myeloid leukemia	Formaldehyde	0.25 (0.2-0.32)	0.02 (0.02-0.03)
Suriname	Chronic lymphoid leukemia	Benzene	0.48 (0.14-0.81)	0.23 (0.19-0.27)
Suriname	Chronic lymphoid leukemia	Formaldehyde	0.13 (0.1-0.16)	0.03 (0.02-0.03)
Suriname	Other leukemia	Benzene	0.73 (0.22-1.21)	0.04 (0.03-0.05)
Suriname	Other leukemia	Formaldehyde	0.2 (0.16-0.24)	0.22 (0.16-0.28)
Sweden	All leukemia	Benzene	0.41 (0.08-0.72)	0.37 (0.29-0.48)
Sweden	All leukemia	Formaldehyde	0.04 (0.04-0.05)	0.23 (0.18-0.29)
Sweden	Acute myeloid leukemia	Benzene	0.49 (0.09-0.88)	0.03 (0.03-0.04)
Sweden	Acute myeloid leukemia	Formaldehyde	0.05 (0.04-0.06)	0.14 (0.1-0.19)
Sweden	Acute lymphoid leukemia	Benzene	0.74 (0.14-1.33)	0.19 (0.16-0.23)
Sweden	Acute lymphoid leukemia	Formaldehyde	0.08 (0.07-0.1)	0.32 (0.25-0.4)
Sweden	Chronic myeloid leukemia	Benzene	0.56 (0.11-1.01)	0.34 (0.28-0.42)
Sweden	Chronic myeloid leukemia	Formaldehyde	0.06 (0.05-0.07)	0.24 (0.17-0.31)
Sweden	Chronic lymphoid leukemia	Benzene	0.2 (0.04-0.35)	0.34 (0.28-0.41)
Sweden	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.02-0.03)	0.2 (0.15-0.25)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Sweden	Other leukemia	Benzene	0.34 (0.06-0.61)	0.22 (0.16-0.29)
Sweden	Other leukemia	Formaldehyde	0.04 (0.03-0.04)	0.03 (0.02-0.04)
Switzerland	All leukemia	Benzene	0.46 (0.09-0.82)	0.17 (0.13-0.22)
Switzerland	All leukemia	Formaldehyde	0.06 (0.05-0.07)	0.2 (0.14-0.26)
Switzerland	Acute myeloid leukemia	Benzene	0.6 (0.11-1.06)	0.23 (0.19-0.28)
Switzerland	Acute myeloid leukemia	Formaldehyde	0.08 (0.06-0.09)	0.03 (0.02-0.04)
Switzerland	Acute lymphoid leukemia	Benzene	0.77 (0.14-1.36)	0.02 (0.02-0.03)
Switzerland	Acute lymphoid leukemia	Formaldehyde	0.1 (0.08-0.13)	0.14 (0.11-0.18)
Switzerland	Chronic myeloid leukemia	Benzene	0.56 (0.11-1.02)	0.21 (0.16-0.26)
Switzerland	Chronic myeloid leukemia	Formaldehyde	0.07 (0.06-0.09)	0.18 (0.15-0.21)
Switzerland	Chronic lymphoid leukemia	Benzene	0.19 (0.03-0.33)	0.03 (0.03-0.04)
Switzerland	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.02-0.03)	0.31 (0.25-0.39)
Switzerland	Other leukemia	Benzene	0.38 (0.08-0.68)	0.02 (0.01-0.02)
Switzerland	Other leukemia	Formaldehyde	0.05 (0.04-0.06)	0.03 (0.03-0.04)
Syrian Arab Republic	All leukemia	Benzene	0.42 (0.12-0.7)	0.26 (0.22-0.32)
Syrian Arab Republic	All leukemia	Formaldehyde	0.14 (0.11-0.19)	0.2 (0.16-0.24)
Syrian Arab Republic	Acute myeloid leukemia	Benzene	0.42 (0.12-0.73)	0.38 (0.32-0.46)
Syrian Arab Republic	Acute myeloid leukemia	Formaldehyde	0.14 (0.1-0.2)	0.14 (0.11-0.18)
Syrian Arab Republic	Acute lymphoid leukemia	Benzene	0.32 (0.09-0.57)	0.22 (0.17-0.28)
Syrian Arab Republic	Acute lymphoid leukemia	Formaldehyde	0.11 (0.07-0.16)	0.3 (0.24-0.36)
Syrian Arab Republic	Chronic myeloid leukemia	Benzene	0.49 (0.15-0.86)	0.18 (0.13-0.23)
Syrian Arab Republic	Chronic myeloid leukemia	Formaldehyde	0.17 (0.11-0.23)	0.31 (0.24-0.4)
Syrian Arab Republic	Chronic lymphoid leukemia	Benzene	0.33 (0.1-0.59)	0.04 (0.03-0.05)
Syrian Arab Republic	Chronic lymphoid leukemia	Formaldehyde	0.11 (0.08-0.16)	0.04 (0.04-0.05)
Syrian Arab Republic	Other leukemia	Benzene	0.43 (0.12-0.72)	0.2 (0.17-0.25)
Syrian Arab Republic	Other leukemia	Formaldehyde	0.15 (0.11-0.19)	0.28 (0.24-0.34)
Taiwan (Province of China)	All leukemia	Benzene	0.7 (0.21-1.16)	0.19 (0.15-0.23)
Taiwan (Province of China)	All leukemia	Formaldehyde	0.37 (0.31-0.45)	0.17 (0.14-0.22)
Taiwan (Province of China)	Acute myeloid leukemia	Benzene	0.86 (0.25-1.44)	0.03 (0.03-0.04)
Taiwan (Province of China)	Acute myeloid leukemia	Formaldehyde	0.46 (0.38-0.56)	0.04 (0.03-0.04)
Taiwan (Province of China)	Acute lymphoid leukemia	Benzene	0.73 (0.22-1.21)	0.02 (0.02-0.03)
Taiwan (Province of China)	Acute lymphoid leukemia	Formaldehyde	0.38 (0.31-0.48)	0.29 (0.24-0.35)
Taiwan (Province of China)	Chronic myeloid leukemia	Benzene	0.76 (0.22-1.26)	0.04 (0.03-0.04)
Taiwan (Province of China)	Chronic myeloid leukemia	Formaldehyde	0.4 (0.34-0.49)	0.14 (0.11-0.18)
Taiwan (Province of China)	Chronic lymphoid leukemia	Benzene	0.36 (0.11-0.62)	0.25 (0.21-0.29)
Taiwan (Province of China)	Chronic lymphoid leukemia	Formaldehyde	0.19 (0.16-0.24)	0.33 (0.27-0.41)
Taiwan (Province of China)	Other leukemia	Benzene	0.68 (0.2-1.12)	0.23 (0.18-0.29)
Taiwan (Province of China)	Other leukemia	Formaldehyde	0.36 (0.3-0.43)	0.29 (0.24-0.35)
Tajikistan	All leukemia	Benzene	0.39 (0.11-0.66)	0.25 (0.21-0.31)
Tajikistan	All leukemia	Formaldehyde	0.12 (0.09-0.16)	0.37 (0.29-0.46)
Tajikistan	Acute myeloid leukemia	Benzene	0.47 (0.14-0.81)	0.03 (0.02-0.03)
Tajikistan	Acute myeloid leukemia	Formaldehyde	0.15 (0.1-0.21)	0.17 (0.13-0.21)
Tajikistan	Acute lymphoid leukemia	Benzene	0.26 (0.07-0.47)	0.17 (0.13-0.22)
Tajikistan	Acute lymphoid leukemia	Formaldehyde	0.08 (0.05-0.11)	0.25 (0.19-0.3)



Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Tajikistan	Chronic myeloid leukemia	Benzene	0.5 (0.14-0.9)	0.17 (0.14-0.22)
Tajikistan	Chronic myeloid leukemia	Formaldehyde	0.15 (0.1-0.22)	0.03 (0.02-0.03)
Tajikistan	Chronic lymphoid leukemia	Benzene	0.5 (0.14-0.85)	0.03 (0.02-0.03)
Tajikistan	Chronic lymphoid leukemia	Formaldehyde	0.15 (0.11-0.2)	0.21 (0.16-0.26)
Tajikistan	Other leukemia	Benzene	0.4 (0.11-0.7)	0.29 (0.21-0.36)
Tajikistan	Other leukemia	Formaldehyde	0.12 (0.08-0.17)	0.36 (0.3-0.43)
Thailand	All leukemia	Benzene	0.68 (0.2-1.14)	0.3 (0.23-0.42)
Thailand	All leukemia	Formaldehyde	0.28 (0.22-0.35)	0.16 (0.12-0.2)
Thailand	Acute myeloid leukemia	Benzene	0.75 (0.22-1.27)	0.03 (0.03-0.04)
Thailand	Acute myeloid leukemia	Formaldehyde	0.32 (0.24-0.41)	0.2 (0.16-0.26)
Thailand	Acute lymphoid leukemia	Benzene	0.59 (0.16-1.06)	0.13 (0.09-0.16)
Thailand	Acute lymphoid leukemia	Formaldehyde	0.25 (0.16-0.36)	0.29 (0.24-0.34)
Thailand	Chronic myeloid leukemia	Benzene	0.84 (0.24-1.4)	0.38 (0.31-0.45)
Thailand	Chronic myeloid leukemia	Formaldehyde	0.35 (0.27-0.45)	0.31 (0.22-0.4)
Thailand	Chronic lymphoid leukemia	Benzene	0.31 (0.09-0.51)	0.03 (0.02-0.03)
Thailand	Chronic lymphoid leukemia	Formaldehyde	0.13 (0.1-0.16)	0.28 (0.23-0.35)
Thailand	Other leukemia	Benzene	0.68 (0.2-1.13)	0.03 (0.03-0.04)
Thailand	Other leukemia	Formaldehyde	0.28 (0.22-0.35)	0.18 (0.14-0.22)
Timor-Leste	All leukemia	Benzene	0.34 (0.09-0.65)	0.12 (0.06-0.19)
Timor-Leste	All leukemia	Formaldehyde	0.14 (0.08-0.21)	0.23 (0.19-0.28)
Timor-Leste	Acute myeloid leukemia	Benzene	0.48 (0.13-0.88)	0.11 (0.09-0.14)
Timor-Leste	Acute myeloid leukemia	Formaldehyde	0.19 (0.12-0.28)	0.38 (0.29-0.47)
Timor-Leste	Acute lymphoid leukemia	Benzene	0.24 (0.06-0.55)	0.23 (0.18-0.28)
Timor-Leste	Acute lymphoid leukemia	Formaldehyde	0.1 (0.05-0.18)	0.03 (0.02-0.04)
Timor-Leste	Chronic myeloid leukemia	Benzene	0.48 (0.13-0.92)	0.04 (0.03-0.04)
Timor-Leste	Chronic myeloid leukemia	Formaldehyde	0.2 (0.1-0.29)	0.3 (0.25-0.36)
Timor-Leste	Chronic lymphoid leukemia	Benzene	0.39 (0.11-0.67)	0.13 (0.09-0.19)
Timor-Leste	Chronic lymphoid leukemia	Formaldehyde	0.16 (0.12-0.21)	0.15 (0.11-0.19)
Timor-Leste	Other leukemia	Benzene	0.34 (0.09-0.69)	0.17 (0.13-0.22)
Timor-Leste	Other leukemia	Formaldehyde	0.14 (0.08-0.22)	0.04 (0.03-0.05)
Togo	All leukemia	Benzene	0.5 (0.15-0.86)	0.3 (0.24-0.37)
Togo	All leukemia	Formaldehyde	0.18 (0.13-0.23)	0.03 (0.03-0.04)
Togo	Acute myeloid leukemia	Benzene	0.42 (0.11-0.8)	0.26 (0.19-0.35)
Togo	Acute myeloid leukemia	Formaldehyde	0.15 (0.08-0.22)	0.21 (0.16-0.27)
Togo	Acute lymphoid leukemia	Benzene	0.35 (0.1-0.63)	0.25 (0.2-0.31)
Togo	Acute lymphoid leukemia	Formaldehyde	0.13 (0.07-0.21)	0.16 (0.13-0.2)
Togo	Chronic myeloid leukemia	Benzene	1.09 (0.31-1.82)	0.27 (0.22-0.32)
Togo	Chronic myeloid leukemia	Formaldehyde	0.39 (0.29-0.52)	0.15 (0.11-0.19)
Togo	Chronic lymphoid leukemia	Benzene	0.26 (0.07-0.44)	0.31 (0.26-0.37)
Togo	Chronic lymphoid leukemia	Formaldehyde	0.09 (0.07-0.12)	0.37 (0.31-0.43)
Togo	Other leukemia	Benzene	0.46 (0.13-0.78)	0.31 (0.25-0.38)
Togo	Other leukemia	Formaldehyde	0.16 (0.12-0.21)	0.04 (0.03-0.04)
Tokelau	All leukemia	Benzene	0.55 (0.16-0.93)	0.03 (0.03-0.04)
Tokelau	All leukemia	Formaldehyde	0.2 (0.15-0.27)	0.02 (0.02-0.03)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Tokelau	Acute myeloid leukemia	Benzene	0.73 (0.22-1.25)	0.47 (0.36-0.61)
Tokelau	Acute myeloid leukemia	Formaldehyde	0.27 (0.19-0.37)	0.06 (0.05-0.07)
Tokelau	Acute lymphoid leukemia	Benzene	0.63 (0.19-1.1)	0.03 (0.02-0.03)
Tokelau	Acute lymphoid leukemia	Formaldehyde	0.23 (0.15-0.34)	0.04 (0.04-0.05)
Tokelau	Chronic myeloid leukemia	Benzene	0.64 (0.18-1.11)	0.04 (0.03-0.05)
Tokelau	Chronic myeloid leukemia	Formaldehyde	0.26 (0.17-0.37)	0.16 (0.11-0.2)
Tokelau	Chronic lymphoid leukemia	Benzene	0.44 (0.13-0.76)	0.23 (0.16-0.3)
Tokelau	Chronic lymphoid leukemia	Formaldehyde	0.17 (0.12-0.23)	0.24 (0.2-0.28)
Tokelau	Other leukemia	Benzene	0.44 (0.13-0.74)	0.23 (0.19-0.27)
Tokelau	Other leukemia	Formaldehyde	0.16 (0.11-0.21)	0.16 (0.12-0.2)
Tonga	All leukemia	Benzene	0.47 (0.14-0.77)	0.03 (0.02-0.04)
Tonga	All leukemia	Formaldehyde	0.15 (0.12-0.18)	0.15 (0.12-0.19)
Tonga	Acute myeloid leukemia	Benzene	0.6 (0.17-1.01)	0.36 (0.28-0.46)
Tonga	Acute myeloid leukemia	Formaldehyde	0.19 (0.15-0.25)	0.18 (0.13-0.23)
Tonga	Acute lymphoid leukemia	Benzene	0.45 (0.13-0.8)	0.04 (0.03-0.04)
Tonga	Acute lymphoid leukemia	Formaldehyde	0.14 (0.1-0.2)	0.3 (0.25-0.36)
Tonga	Chronic myeloid leukemia	Benzene	0.53 (0.16-0.89)	0.13 (0.09-0.17)
Tonga	Chronic myeloid leukemia	Formaldehyde	0.18 (0.14-0.24)	0.06 (0.05-0.07)
Tonga	Chronic lymphoid leukemia	Benzene	0.44 (0.12-0.76)	0.04 (0.04-0.05)
Tonga	Chronic lymphoid leukemia	Formaldehyde	0.15 (0.11-0.19)	0.03 (0.03-0.04)
Tonga	Other leukemia	Benzene	0.4 (0.12-0.67)	0.48 (0.32-0.68)
Tonga	Other leukemia	Formaldehyde	0.12 (0.1-0.16)	0.14 (0.1-0.18)
Trinidad and Tobago	All leukemia	Benzene	0.64 (0.19-1.05)	0.15 (0.12-0.21)
Trinidad and Tobago	All leukemia	Formaldehyde	0.23 (0.19-0.27)	0.11 (0.07-0.15)
Trinidad and Tobago	Acute myeloid leukemia	Benzene	0.74 (0.21-1.23)	0.02 (0.02-0.03)
Trinidad and Tobago	Acute myeloid leukemia	Formaldehyde	0.26 (0.21-0.32)	0.26 (0.22-0.32)
Trinidad and Tobago	Acute lymphoid leukemia	Benzene	0.42 (0.12-0.72)	0.21 (0.16-0.27)
Trinidad and Tobago	Acute lymphoid leukemia	Formaldehyde	0.15 (0.11-0.19)	0.26 (0.21-0.3)
Trinidad and Tobago	Chronic myeloid leukemia	Benzene	0.8 (0.24-1.32)	0.03 (0.02-0.03)
Trinidad and Tobago	Chronic myeloid leukemia	Formaldehyde	0.28 (0.23-0.35)	0.04 (0.03-0.04)
Trinidad and Tobago	Chronic lymphoid leukemia	Benzene	0.46 (0.13-0.76)	0.14 (0.11-0.17)
Trinidad and Tobago	Chronic lymphoid leukemia	Formaldehyde	0.17 (0.13-0.2)	0.28 (0.23-0.32)
Trinidad and Tobago	Other leukemia	Benzene	0.68 (0.2-1.11)	0.17 (0.14-0.21)
Trinidad and Tobago	Other leukemia	Formaldehyde	0.23 (0.19-0.28)	0.27 (0.22-0.33)
Tunisia	All leukemia	Benzene	0.33 (0.1-0.56)	0.22 (0.14-0.28)
Tunisia	All leukemia	Formaldehyde	0.14 (0.11-0.18)	0.23 (0.18-0.28)
Tunisia	Acute myeloid leukemia	Benzene	0.44 (0.12-0.75)	0.22 (0.17-0.27)
Tunisia	Acute myeloid leukemia	Formaldehyde	0.2 (0.14-0.25)	0.17 (0.13-0.21)
Tunisia	Acute lymphoid leukemia	Benzene	0.3 (0.09-0.56)	0.28 (0.24-0.34)
Tunisia	Acute lymphoid leukemia	Formaldehyde	0.13 (0.09-0.19)	0.15 (0.13-0.19)
Tunisia	Chronic myeloid leukemia	Benzene	0.42 (0.12-0.74)	0.21 (0.17-0.26)
Tunisia	Chronic myeloid leukemia	Formaldehyde	0.19 (0.13-0.25)	0.22 (0.18-0.27)
Tunisia	Chronic lymphoid leukemia	Benzene	0.32 (0.09-0.55)	0.26 (0.21-0.32)
Tunisia	Chronic lymphoid leukemia	Formaldehyde	0.14 (0.11-0.18)	0.15 (0.11-0.19)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Tunisia	Other leukemia	Benzene	0.24 (0.07-0.42)	0.04 (0.03-0.05)
Tunisia	Other leukemia	Formaldehyde	0.1 (0.08-0.14)	0.49 (0.35-0.68)
Turkey	All leukemia	Benzene	0.46 (0.14-0.8)	0.03 (0.03-0.04)
Turkey	All leukemia	Formaldehyde	0.21 (0.16-0.26)	0.15 (0.11-0.2)
Turkey	Acute myeloid leukemia	Benzene	0.59 (0.17-1.03)	0.04 (0.03-0.04)
Turkey	Acute myeloid leukemia	Formaldehyde	0.27 (0.2-0.34)	0.18 (0.15-0.22)
Turkey	Acute lymphoid leukemia	Benzene	0.43 (0.12-0.79)	0.2 (0.16-0.23)
Turkey	Acute lymphoid leukemia	Formaldehyde	0.19 (0.13-0.27)	0.27 (0.22-0.33)
Turkey	Chronic myeloid leukemia	Benzene	0.52 (0.16-0.93)	0.26 (0.2-0.33)
Turkey	Chronic myeloid leukemia	Formaldehyde	0.23 (0.17-0.32)	0.28 (0.24-0.34)
Turkey	Chronic lymphoid leukemia	Benzene	0.38 (0.11-0.66)	0.3 (0.24-0.37)
Turkey	Chronic lymphoid leukemia	Formaldehyde	0.17 (0.12-0.23)	0.15 (0.11-0.21)
Turkey	Other leukemia	Benzene	0.37 (0.11-0.63)	0.21 (0.14-0.28)
Turkey	Other leukemia	Formaldehyde	0.17 (0.12-0.22)	0.21 (0.16-0.27)
Turkmenistan	All leukemia	Benzene	0.36 (0.1-0.61)	0.16 (0.11-0.22)
Turkmenistan	All leukemia	Formaldehyde	0.12 (0.09-0.15)	0.03 (0.02-0.04)
Turkmenistan	Acute myeloid leukemia	Benzene	0.46 (0.13-0.81)	0.14 (0.11-0.18)
Turkmenistan	Acute myeloid leukemia	Formaldehyde	0.15 (0.1-0.21)	0.23 (0.18-0.29)
Turkmenistan	Acute lymphoid leukemia	Benzene	0.27 (0.08-0.49)	0.03 (0.02-0.04)
Turkmenistan	Acute lymphoid leukemia	Formaldehyde	0.09 (0.06-0.12)	0.24 (0.17-0.34)
Turkmenistan	Chronic myeloid leukemia	Benzene	0.51 (0.14-0.88)	0.2 (0.17-0.24)
Turkmenistan	Chronic myeloid leukemia	Formaldehyde	0.17 (0.12-0.22)	0.21 (0.18-0.25)
Turkmenistan	Chronic lymphoid leukemia	Benzene	0.5 (0.15-0.85)	0.19 (0.16-0.23)
Turkmenistan	Chronic lymphoid leukemia	Formaldehyde	0.16 (0.13-0.2)	0.02 (0.02-0.03)
Turkmenistan	Other leukemia	Benzene	0.36 (0.1-0.6)	0.03 (0.02-0.03)
Turkmenistan	Other leukemia	Formaldehyde	0.12 (0.09-0.15)	0.25 (0.2-0.31)
Tuvalu	All leukemia	Benzene	0.64 (0.19-1.08)	0.26 (0.22-0.31)
Tuvalu	All leukemia	Formaldehyde	0.24 (0.19-0.31)	0.4 (0.28-0.54)
Tuvalu	Acute myeloid leukemia	Benzene	0.85 (0.24-1.42)	0.2 (0.15-0.26)
Tuvalu	Acute myeloid leukemia	Formaldehyde	0.32 (0.24-0.42)	0.17 (0.15-0.21)
Tuvalu	Acute lymphoid leukemia	Benzene	0.58 (0.17-1.02)	0.04 (0.03-0.05)
Tuvalu	Acute lymphoid leukemia	Formaldehyde	0.21 (0.14-0.3)	0.02 (0.02-0.03)
Tuvalu	Chronic myeloid leukemia	Benzene	0.77 (0.22-1.36)	0.37 (0.31-0.44)
Tuvalu	Chronic myeloid leukemia	Formaldehyde	0.31 (0.21-0.43)	0.24 (0.18-0.32)
Tuvalu	Chronic lymphoid leukemia	Benzene	0.54 (0.15-0.91)	0.12 (0.1-0.15)
Tuvalu	Chronic lymphoid leukemia	Formaldehyde	0.21 (0.16-0.28)	0.17 (0.12-0.22)
Tuvalu	Other leukemia	Benzene	0.56 (0.17-0.94)	0.31 (0.25-0.39)
Tuvalu	Other leukemia	Formaldehyde	0.21 (0.16-0.26)	0.02 (0.02-0.03)
Uganda	All leukemia	Benzene	0.25 (0.07-0.47)	0.21 (0.15-0.29)
Uganda	All leukemia	Formaldehyde	0.09 (0.06-0.12)	0.2 (0.17-0.24)
Uganda	Acute myeloid leukemia	Benzene	0.37 (0.1-0.73)	0.07 (0.06-0.09)
Uganda	Acute myeloid leukemia	Formaldehyde	0.13 (0.06-0.2)	0.05 (0.04-0.06)
Uganda	Acute lymphoid leukemia	Benzene	0.2 (0.05-0.43)	0.12 (0.08-0.16)
Uganda	Acute lymphoid leukemia	Formaldehyde	0.07 (0.03-0.12)	0.18 (0.12-0.24)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Uganda	Chronic myeloid leukemia	Benzene	0.39 (0.09-0.8)	0.14 (0.1-0.2)
Uganda	Chronic myeloid leukemia	Formaldehyde	0.13 (0.06-0.22)	0.32 (0.26-0.4)
Uganda	Chronic lymphoid leukemia	Benzene	0.22 (0.06-0.38)	0.24 (0.18-0.31)
Uganda	Chronic lymphoid leukemia	Formaldehyde	0.08 (0.06-0.1)	0.03 (0.02-0.03)
Uganda	Other leukemia	Benzene	0.21 (0.05-0.4)	0.17 (0.12-0.22)
Uganda	Other leukemia	Formaldehyde	0.07 (0.04-0.11)	0.13 (0.09-0.18)
Ukraine	All leukemia	Benzene	0.44 (0.08-0.8)	0.18 (0.15-0.22)
Ukraine	All leukemia	Formaldehyde	0.04 (0.03-0.05)	0.31 (0.26-0.37)
Ukraine	Acute myeloid leukemia	Benzene	0.56 (0.1-1)	0.29 (0.24-0.35)
Ukraine	Acute myeloid leukemia	Formaldehyde	0.05 (0.04-0.06)	0.2 (0.15-0.27)
Ukraine	Acute lymphoid leukemia	Benzene	0.41 (0.07-0.73)	0.24 (0.18-0.3)
Ukraine	Acute lymphoid leukemia	Formaldehyde	0.04 (0.03-0.05)	0.16 (0.12-0.2)
Ukraine	Chronic myeloid leukemia	Benzene	0.5 (0.09-0.89)	0.21 (0.17-0.27)
Ukraine	Chronic myeloid leukemia	Formaldehyde	0.05 (0.04-0.06)	0.02 (0.02-0.03)
Ukraine	Chronic lymphoid leukemia	Benzene	0.27 (0.05-0.49)	0.18 (0.15-0.22)
Ukraine	Chronic lymphoid leukemia	Formaldehyde	0.03 (0.02-0.03)	0.02 (0.02-0.03)
Ukraine	Other leukemia	Benzene	0.42 (0.07-0.77)	0.03 (0.02-0.04)
Ukraine	Other leukemia	Formaldehyde	0.04 (0.03-0.05)	0.23 (0.17-0.3)
United Arab Emirates	All leukemia	Benzene	1.24 (0.35-2.15)	0.38 (0.3-0.49)
United Arab Emirates	All leukemia	Formaldehyde	0.38 (0.28-0.55)	0.24 (0.18-0.31)
United Arab Emirates	Acute myeloid leukemia	Benzene	1.44 (0.41-2.51)	0.02 (0.02-0.03)
United Arab Emirates	Acute myeloid leukemia	Formaldehyde	0.45 (0.32-0.67)	0.13 (0.09-0.18)
United Arab Emirates	Acute lymphoid leukemia	Benzene	1.13 (0.34-2.05)	0.17 (0.13-0.2)
United Arab Emirates	Acute lymphoid leukemia	Formaldehyde	0.36 (0.23-0.52)	0.32 (0.25-0.39)
United Arab Emirates	Chronic myeloid leukemia	Benzene	1.4 (0.38-2.54)	0.34 (0.28-0.42)
United Arab Emirates	Chronic myeloid leukemia	Formaldehyde	0.43 (0.29-0.66)	0.18 (0.12-0.25)
United Arab Emirates	Chronic lymphoid leukemia	Benzene	0.98 (0.28-1.88)	0.34 (0.28-0.41)
United Arab Emirates	Chronic lymphoid leukemia	Formaldehyde	0.3 (0.19-0.5)	0.2 (0.15-0.27)
United Arab Emirates	Other leukemia	Benzene	0.95 (0.27-1.62)	0.22 (0.15-0.28)
United Arab Emirates	Other leukemia	Formaldehyde	0.29 (0.21-0.4)	0.02 (0.02-0.03)
United Kingdom	All leukemia	Benzene	0.34 (0.07-0.61)	0.19 (0.14-0.25)
United Kingdom	All leukemia	Formaldehyde	0.04 (0.03-0.05)	0.15 (0.09-0.24)
United Kingdom	Acute myeloid leukemia	Benzene	0.39 (0.07-0.71)	0.17 (0.13-0.21)
United Kingdom	Acute myeloid leukemia	Formaldehyde	0.04 (0.04-0.05)	0.02 (0.01-0.03)
United Kingdom	Acute lymphoid leukemia	Benzene	0.6 (0.11-1.06)	0.02 (0.01-0.02)
United Kingdom	Acute lymphoid leukemia	Formaldehyde	0.07 (0.06-0.08)	0.14 (0.11-0.19)
United Kingdom	Chronic myeloid leukemia	Benzene	0.41 (0.08-0.73)	0.2 (0.15-0.26)
United Kingdom	Chronic myeloid leukemia	Formaldehyde	0.05 (0.04-0.05)	0.17 (0.14-0.21)
United Kingdom	Chronic lymphoid leukemia	Benzene	0.17 (0.03-0.31)	0.02 (0.02-0.03)
United Kingdom	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.02-0.03)	0.29 (0.21-0.39)
United Kingdom	Other leukemia	Benzene	0.25 (0.05-0.45)	0.01 (0.01-0.01)
United Kingdom	Other leukemia	Formaldehyde	0.03 (0.03-0.04)	0.03 (0.02-0.04)
United Republic of Tanzania	All leukemia	Benzene	0.32 (0.09-0.6)	0.24 (0.2-0.29)
United Republic of Tanzania	All leukemia	Formaldehyde	0.12 (0.08-0.18)	0.15 (0.12-0.19)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
United Republic of Tanzania	Acute myeloid leukemia	Benzene	0.48 (0.12-0.98)	0.39 (0.32-0.48)
United Republic of Tanzania	Acute myeloid leukemia	Formaldehyde	0.19 (0.1-0.3)	0.16 (0.12-0.21)
United Republic of Tanzania	Acute lymphoid leukemia	Benzene	0.21 (0.05-0.51)	0.22 (0.16-0.29)
United Republic of Tanzania	Acute lymphoid leukemia	Formaldehyde	0.08 (0.03-0.16)	0.3 (0.24-0.36)
United Republic of Tanzania	Chronic myeloid leukemia	Benzene	0.57 (0.13-1.2)	0.2 (0.15-0.26)
United Republic of Tanzania	Chronic myeloid leukemia	Formaldehyde	0.21 (0.09-0.37)	0.31 (0.24-0.4)
United Republic of Tanzania	Chronic lymphoid leukemia	Benzene	0.33 (0.09-0.56)	0.03 (0.03-0.04)
United Republic of Tanzania	Chronic lymphoid leukemia	Formaldehyde	0.12 (0.09-0.15)	0.03 (0.02-0.04)
United Republic of Tanzania	Other leukemia	Benzene	0.28 (0.07-0.54)	0.18 (0.15-0.22)
United Republic of Tanzania	Other leukemia	Formaldehyde	0.11 (0.06-0.17)	0.28 (0.23-0.33)
United States of America	All leukemia	Benzene	0.42 (0.08-0.74)	0.12 (0.1-0.15)
United States of America	All leukemia	Formaldehyde	0.05 (0.04-0.06)	0.16 (0.12-0.2)
United States of America	Acute myeloid leukemia	Benzene	0.49 (0.09-0.86)	0.02 (0.02-0.03)
United States of America	Acute myeloid leukemia	Formaldehyde	0.05 (0.05-0.06)	0.03 (0.02-0.04)
United States of America	Acute lymphoid leukemia	Benzene	0.64 (0.12-1.13)	0.02 (0.01-0.02)
United States of America	Acute lymphoid leukemia	Formaldehyde	0.07 (0.06-0.09)	0.32 (0.26-0.39)
United States of America	Chronic myeloid leukemia	Benzene	0.57 (0.11-1.01)	0.03 (0.02-0.03)
United States of America	Chronic myeloid leukemia	Formaldehyde	0.06 (0.05-0.08)	0.14 (0.11-0.18)
United States of America	Chronic lymphoid leukemia	Benzene	0.21 (0.04-0.37)	0.16 (0.13-0.21)
United States of America	Chronic lymphoid leukemia	Formaldehyde	0.02 (0.02-0.03)	0.32 (0.25-0.4)
United States of America	Other leukemia	Benzene	0.36 (0.07-0.64)	0.22 (0.17-0.28)
United States of America	Other leukemia	Formaldehyde	0.04 (0.03-0.05)	0.26 (0.21-0.33)
United States Virgin Islands	All leukemia	Benzene	0.88 (0.26-1.45)	0.24 (0.2-0.3)
United States Virgin Islands	All leukemia	Formaldehyde	0.26 (0.21-0.31)	0.38 (0.29-0.47)
United States Virgin Islands	Acute myeloid leukemia	Benzene	1.09 (0.33-1.83)	0.03 (0.03-0.04)
United States Virgin Islands	Acute myeloid leukemia	Formaldehyde	0.3 (0.24-0.38)	0.11 (0.08-0.15)
United States Virgin Islands	Acute lymphoid leukemia	Benzene	0.67 (0.19-1.17)	0.2 (0.15-0.26)
United States Virgin Islands	Acute lymphoid leukemia	Formaldehyde	0.21 (0.15-0.29)	0.25 (0.19-0.33)
United States Virgin Islands	Chronic myeloid leukemia	Benzene	1.05 (0.32-1.79)	0.13 (0.09-0.18)
United States Virgin Islands	Chronic myeloid leukemia	Formaldehyde	0.29 (0.22-0.37)	0.02 (0.02-0.03)
United States Virgin Islands	Chronic lymphoid leukemia	Benzene	0.55 (0.16-0.93)	0.02 (0.02-0.03)
United States Virgin Islands	Chronic lymphoid leukemia	Formaldehyde	0.17 (0.13-0.2)	0.2 (0.14-0.26)
United States Virgin Islands	Other leukemia	Benzene	0.87 (0.26-1.45)	0.26 (0.17-0.35)
United States Virgin Islands	Other leukemia	Formaldehyde	0.27 (0.21-0.33)	0.33 (0.26-0.42)
Uruguay	All leukemia	Benzene	0.55 (0.16-0.91)	0.21 (0.15-0.28)
Uruguay	All leukemia	Formaldehyde	0.21 (0.18-0.24)	0.18 (0.14-0.23)
Uruguay	Acute myeloid leukemia	Benzene	0.66 (0.19-1.1)	0.02 (0.02-0.03)
Uruguay	Acute myeloid leukemia	Formaldehyde	0.24 (0.2-0.29)	0.18 (0.14-0.24)
Uruguay	Acute lymphoid leukemia	Benzene	0.59 (0.17-0.98)	0.13 (0.09-0.19)
Uruguay	Acute lymphoid leukemia	Formaldehyde	0.22 (0.18-0.28)	0.26 (0.22-0.32)
Uruguay	Chronic myeloid leukemia	Benzene	0.68 (0.2-1.15)	0.35 (0.29-0.42)
Uruguay	Chronic myeloid leukemia	Formaldehyde	0.26 (0.21-0.32)	0.28 (0.2-0.37)
Uruguay	Chronic lymphoid leukemia	Benzene	0.24 (0.07-0.4)	0.02 (0.02-0.03)
Uruguay	Chronic lymphoid leukemia	Formaldehyde	0.09 (0.07-0.12)	0.17 (0.11-0.33)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Uruguay	Other leukemia	Benzene	0.56 (0.17-0.94)	0.02 (0.02-0.03)
Uruguay	Other leukemia	Formaldehyde	0.21 (0.17-0.25)	0.14 (0.11-0.18)
Uzbekistan	All leukemia	Benzene	0.64 (0.19-1.07)	0.11 (0.06-0.17)
Uzbekistan	All leukemia	Formaldehyde	0.17 (0.14-0.21)	0.23 (0.18-0.28)
Uzbekistan	Acute myeloid leukemia	Benzene	0.76 (0.23-1.3)	0.12 (0.09-0.16)
Uzbekistan	Acute myeloid leukemia	Formaldehyde	0.2 (0.15-0.26)	0.35 (0.26-0.45)
Uzbekistan	Acute lymphoid leukemia	Benzene	0.51 (0.16-0.89)	0.21 (0.16-0.26)
Uzbekistan	Acute lymphoid leukemia	Formaldehyde	0.13 (0.1-0.18)	0.02 (0.02-0.03)
Uzbekistan	Chronic myeloid leukemia	Benzene	0.76 (0.22-1.29)	0.03 (0.02-0.03)
Uzbekistan	Chronic myeloid leukemia	Formaldehyde	0.2 (0.15-0.26)	0.3 (0.24-0.37)
Uzbekistan	Chronic lymphoid leukemia	Benzene	0.63 (0.18-1.04)	0.15 (0.1-0.21)
Uzbekistan	Chronic lymphoid leukemia	Formaldehyde	0.16 (0.13-0.2)	0.15 (0.12-0.19)
Uzbekistan	Other leukemia	Benzene	0.64 (0.18-1.07)	0.13 (0.1-0.17)
Uzbekistan	Other leukemia	Formaldehyde	0.17 (0.13-0.22)	0.05 (0.03-0.06)
Vanuatu	All leukemia	Benzene	0.74 (0.22-1.25)	0.26 (0.2-0.32)
Vanuatu	All leukemia	Formaldehyde	0.23 (0.18-0.3)	0.03 (0.02-0.03)
Vanuatu	Acute myeloid leukemia	Benzene	0.91 (0.27-1.58)	0.18 (0.13-0.26)
Vanuatu	Acute myeloid leukemia	Formaldehyde	0.29 (0.21-0.38)	0.21 (0.15-0.27)
Vanuatu	Acute lymphoid leukemia	Benzene	0.65 (0.19-1.2)	0.17 (0.13-0.25)
Vanuatu	Acute lymphoid leukemia	Formaldehyde	0.2 (0.14-0.29)	0.15 (0.12-0.19)
Vanuatu	Chronic myeloid leukemia	Benzene	0.92 (0.27-1.6)	0.24 (0.2-0.29)
Vanuatu	Chronic myeloid leukemia	Formaldehyde	0.29 (0.2-0.41)	0.13 (0.1-0.17)
Vanuatu	Chronic lymphoid leukemia	Benzene	0.67 (0.19-1.17)	0.28 (0.23-0.35)
Vanuatu	Chronic lymphoid leukemia	Formaldehyde	0.21 (0.15-0.29)	0.38 (0.31-0.46)
Vanuatu	Other leukemia	Benzene	0.66 (0.2-1.13)	0.31 (0.25-0.38)
Vanuatu	Other leukemia	Formaldehyde	0.21 (0.15-0.27)	0.03 (0.02-0.03)
Venezuela (Bolivarian Republic of)	All leukemia	Benzene	0.78 (0.23-1.29)	0.02 (0.02-0.03)
Venezuela (Bolivarian Republic of)	All leukemia	Formaldehyde	0.28 (0.23-0.33)	0.02 (0.01-0.02)
Venezuela (Bolivarian Republic of)	Acute myeloid leukemia	Benzene	0.97 (0.28-1.63)	0.45 (0.33-0.61)
Venezuela (Bolivarian Republic of)	Acute myeloid leukemia	Formaldehyde	0.33 (0.27-0.41)	0.04 (0.03-0.05)
Venezuela (Bolivarian Republic of)	Acute lymphoid leukemia	Benzene	0.56 (0.16-0.94)	0.03 (0.02-0.03)
Venezuela (Bolivarian Republic of)	Acute lymphoid leukemia	Formaldehyde	0.2 (0.16-0.26)	0.04 (0.03-0.05)
Venezuela (Bolivarian Republic of)	Chronic myeloid leukemia	Benzene	1.09 (0.32-1.79)	0.04 (0.03-0.04)
Venezuela (Bolivarian Republic of)	Chronic myeloid leukemia	Formaldehyde	0.38 (0.31-0.47)	0.15 (0.1-0.2)
Venezuela (Bolivarian Republic of)	Chronic lymphoid leukemia	Benzene	0.51 (0.15-0.85)	0.23 (0.16-0.29)
Venezuela (Bolivarian Republic of)	Chronic lymphoid leukemia	Formaldehyde	0.19 (0.15-0.22)	0.23 (0.19-0.26)
Venezuela (Bolivarian Republic of)	Other leukemia	Benzene	0.83 (0.24-1.4)	0.23 (0.19-0.28)
Venezuela (Bolivarian Republic of)	Other leukemia	Formaldehyde	0.29 (0.24-0.36)	0.13 (0.1-0.17)
Viet Nam	All leukemia	Benzene	0.47 (0.14-0.78)	0.02 (0.02-0.03)
Viet Nam	All leukemia	Formaldehyde	0.2 (0.15-0.25)	0.15 (0.11-0.2)
Viet Nam	Acute myeloid leukemia	Benzene	0.55 (0.16-0.92)	0.35 (0.24-0.48)
Viet Nam	Acute myeloid leukemia	Formaldehyde	0.23 (0.18-0.29)	0.19 (0.14-0.25)
Viet Nam	Acute lymphoid leukemia	Benzene	0.43 (0.13-0.75)	0.03 (0.02-0.03)
Viet Nam	Acute lymphoid leukemia	Formaldehyde	0.18 (0.12-0.25)	0.3 (0.23-0.37)

Countries	Causes	Occupational carcinogens	Percent change in 1990 (95% UI)	Percent change in 2019 (95% UI)
Viet Nam	Chronic myeloid leukemia	Benzene	0.6 (0.18-1.02)	0.14 (0.1-0.19)
Viet Nam	Chronic myeloid leukemia	Formaldehyde	0.25 (0.19-0.33)	0.04 (0.03-0.05)
Viet Nam	Chronic lymphoid leukemia	Benzene	0.23 (0.06-0.4)	0.04 (0.03-0.05)
Viet Nam	Chronic lymphoid leukemia	Formaldehyde	0.1 (0.07-0.13)	0.02 (0.02-0.03)
Viet Nam	Other leukemia	Benzene	0.45 (0.13-0.76)	0.45 (0.3-0.64)
Viet Nam	Other leukemia	Formaldehyde	0.19 (0.15-0.24)	0.13 (0.09-0.18)
Yemen	All leukemia	Benzene	0.28 (0.08-0.51)	0.18 (0.13-0.26)
Yemen	All leukemia	Formaldehyde	0.1 (0.06-0.14)	0.09 (0.05-0.15)
Yemen	Acute myeloid leukemia	Benzene	0.37 (0.1-0.72)	0.02 (0.01-0.02)
Yemen	Acute myeloid leukemia	Formaldehyde	0.13 (0.08-0.2)	0.22 (0.18-0.27)
Yemen	Acute lymphoid leukemia	Benzene	0.23 (0.06-0.47)	0.18 (0.13-0.24)
Yemen	Acute lymphoid leukemia	Formaldehyde	0.08 (0.04-0.13)	0.25 (0.2-0.3)
Yemen	Chronic myeloid leukemia	Benzene	0.42 (0.11-0.8)	0.02 (0.02-0.03)
Yemen	Chronic myeloid leukemia	Formaldehyde	0.14 (0.09-0.22)	0.03 (0.02-0.03)
Yemen	Chronic lymphoid leukemia	Benzene	0.34 (0.09-0.62)	0.13 (0.1-0.16)
Yemen	Chronic lymphoid leukemia	Formaldehyde	0.12 (0.08-0.18)	0.24 (0.19-0.28)
Yemen	Other leukemia	Benzene	0.23 (0.07-0.45)	0.17 (0.13-0.21)
Yemen	Other leukemia	Formaldehyde	0.08 (0.05-0.11)	0.27 (0.22-0.33)
Zambia	All leukemia	Benzene	0.36 (0.1-0.67)	0.22 (0.14-0.29)
Zambia	All leukemia	Formaldehyde	0.1 (0.07-0.14)	0.22 (0.17-0.29)
Zambia	Acute myeloid leukemia	Benzene	0.53 (0.14-1.06)	0.18 (0.14-0.24)
Zambia	Acute myeloid leukemia	Formaldehyde	0.15 (0.08-0.25)	0.13 (0.1-0.17)
Zambia	Acute lymphoid leukemia	Benzene	0.22 (0.05-0.51)	0.25 (0.21-0.3)
Zambia	Acute lymphoid leukemia	Formaldehyde	0.06 (0.03-0.12)	0.09 (0.07-0.12)
Zambia	Chronic myeloid leukemia	Benzene	0.63 (0.14-1.39)	0.15 (0.12-0.19)
Zambia	Chronic myeloid leukemia	Formaldehyde	0.18 (0.08-0.31)	0.22 (0.18-0.28)
Zambia	Chronic lymphoid leukemia	Benzene	0.37 (0.11-0.65)	0.22 (0.17-0.29)
Zambia	Chronic lymphoid leukemia	Formaldehyde	0.1 (0.08-0.13)	0.13 (0.09-0.18)
Zambia	Other leukemia	Benzene	0.32 (0.09-0.62)	0.04 (0.03-0.05)
Zambia	Other leukemia	Formaldehyde	0.09 (0.05-0.15)	0.39 (0.27-0.56)
Zimbabwe	All leukemia	Benzene	0.63 (0.18-1.05)	0.03 (0.02-0.03)
Zimbabwe	All leukemia	Formaldehyde	0.23 (0.18-0.28)	0.13 (0.08-0.19)
Zimbabwe	Acute myeloid leukemia	Benzene	0.98 (0.28-1.65)	0.03 (0.02-0.03)
Zimbabwe	Acute myeloid leukemia	Formaldehyde	0.35 (0.27-0.46)	0.19 (0.15-0.23)
Zimbabwe	Acute lymphoid leukemia	Benzene	0.66 (0.19-1.17)	0.19 (0.16-0.23)
Zimbabwe	Acute lymphoid leukemia	Formaldehyde	0.24 (0.15-0.35)	0.28 (0.22-0.34)
Zimbabwe	Chronic myeloid leukemia	Benzene	0.81 (0.23-1.41)	0.23 (0.17-0.3)
Zimbabwe	Chronic myeloid leukemia	Formaldehyde	0.29 (0.2-0.41)	0.27 (0.23-0.32)
Zimbabwe	Chronic lymphoid leukemia	Benzene	0.5 (0.15-0.86)	0.26 (0.2-0.34)
Zimbabwe	Chronic lymphoid leukemia	Formaldehyde	0.17 (0.13-0.22)	0.12 (0.09-0.18)
Zimbabwe	Other leukemia	Benzene	0.55 (0.15-0.9)	0.2 (0.13-0.27)
Zimbabwe	Other leukemia	Formaldehyde	0.2 (0.15-0.25)	0.2 (0.15-0.28)

**Abbreviations:** UI, uncertainty interval.