

Supplementary table 1: Age-Standardised Prevalence rates of Leukemia for Both sex by Country, 2021

	location	val	upper	lower	Rate_2021
1	Philippines	7.88	9.31	6.16	7.88 (6.16–9.31)
2	Myanmar	9.92	14.72	7.13	9.92 (7.13–14.72)
3	Maldives	8.63	11.68	6.02	8.63 (6.02–11.68)
4	Malaysia	14.2	20.35	11.39	14.2 (11.39–20.35)
5	Tonga	5.68	8.69	3.91	5.68 (3.91–8.69)
6	Vanuatu	5.74	8.04	3.9	5.74 (3.9–8.04)
7	Lao People's Democratic Republic	9.37	14.02	6.49	9.37 (6.49–14.02)
8	China	40.09	52.58	26.3	40.09 (26.3–52.58)
9	Indonesia	9.5	14.17	7.5	9.5 (7.5–14.17)
10	Samoa	8.32	13.42	6.06	8.32 (6.06–13.42)
11	Solomon Islands	6.83	10.03	4.26	6.83 (4.26–10.03)
12	Marshall Islands	6.73	9.56	4.48	6.73 (4.48–9.56)
13	Micronesia (Federated States of)	7.06	9.92	4.96	7.06 (4.96–9.92)
14	Tajikistan	6.9	10.64	4.41	6.9 (4.41–10.64)
15	Papua New Guinea	5.13	8.06	2.88	5.13 (2.88–8.06)
16	Mongolia	5.56	7.1	4.08	5.56 (4.08–7.1)
17	Viet Nam	7.91	10.99	5.69	7.91 (5.69–10.99)
18	Fiji	7.3	10.5	3.98	7.3 (3.98–10.5)
19	Kiribati	4.84	6.92	2.73	4.84 (2.73–6.92)
20	Kazakhstan	11.06	13.16	9.29	11.06 (9.29–13.16)
21	Georgia	18.67	20.89	16.68	18.67 (16.68–20.89)
22	Kyrgyzstan	8.78	10.32	7.29	8.78 (7.29–10.32)
23	Hungary	34.83	41.98	29.44	34.83 (29.44–41.98)
24	Czechia	41.44	49.85	34.19	41.44 (34.19–49.85)
25	Azerbaijan	12.01	17.33	8.1	12.01 (8.1–17.33)
26	Taiwan (Province of China)	18.21	21.07	15.56	18.21 (15.56–21.07)
27	Armenia	18.26	20.51	15.93	18.26 (15.93–20.51)
28	Turkmenista n	8.89	11.28	7.03	8.89 (7.03–11.28)
29	Cambodia	11.35	16.8	8.3	11.35 (8.3–16.8)
30	Bosnia and Herzegovina	19.52	27.32	12.79	19.52 (12.79–27.32)
31	Russian Federation	25.77	27.87	23.77	25.77 (23.77–27.87)
32	Ukraine	21.08	27.38	16.03	21.08 (16.03–27.38)
33	Timor-Leste	8.28	11.81	6.15	8.28 (6.15–11.81)
34	Belarus	36.99	46.08	29.17	36.99 (29.17–46.08)
35	Latvia	36.27	43.66	30.05	36.27 (30.05–43.66)
36	Republic of Moldova	12.42	14.76	10.65	12.42 (10.65–14.76)
37	Uzbekistan	9.74	11.99	7.84	9.74 (7.84–11.99)
38	Albania	16.2	26.55	9.8	16.2 (9.8–26.55)
39	Slovenia	61.08	74.44	49.57	61.08 (49.57–74.44)
40	Sri Lanka	10.44	16.1	6.71	10.44 (6.71–16.1)

41	Democratic People's Republic of Korea	14.47	20.63	9.55	14.47	(9.55-20.63)
42	Thailand	15.86	19.96	11.06	15.86	(11.06-19.96)
43	North Macedonia	21.5	30.19	13.42	21.5	(13.42-30.19)
44	Brunei Darussalam	12.96	15.98	8.97	12.96	(8.97-15.98)
45	Australia	41.67	46.76	37.2	41.67	(37.2-46.76)
46	Andorra	58.91	89.89	37.41	58.91	(37.41-89.89)
47	Croatia	44.42	52.67	36.83	44.42	(36.83-52.67)
48	Denmark	53.94	60.53	47.51	53.94	(47.51-60.53)
49	Republic of Korea	20.16	28.03	12.07	20.16	(12.07-28.03)
50	Finland	39.13	43.61	35.15	39.13	(35.15-43.61)
51	New Zealand	52.14	57.26	47.1	52.14	(47.1-57.26)
52	Bulgaria	17.44	21.7	13.81	17.44	(13.81-21.7)
53	Serbia	26.15	34.92	18.9	26.15	(18.9-34.92)
54	Italy	56.82	62.05	52.34	56.82	(52.34-62.05)
55	Luxembourg	46.71	53.97	41.26	46.71	(41.26-53.97)
56	Romania	22.21	25.57	19	22.21	(19-25.57)
57	Belgium	46.05	52.52	40.22	46.05	(40.22-52.52)
58	Israel	46.2	52.09	41.06	46.2	(41.06-52.09)
59	Poland	32.43	35.88	29.28	32.43	(29.28-35.88)
60	Montenegro	29.1	41.4	19.53	29.1	(19.53-41.4)
61	Sweden	42.07	47.48	37.26	42.07	(37.26-47.48)
62	Switzerland	51.38	59.18	44.61	51.38	(44.61-59.18)
63	United States of America	39.75	41.42	37.34	39.75	(37.34-41.42)
64	Lithuania	31.61	37.06	26.63	31.61	(26.63-37.06)
65	Dominican Republic	9.1	12	6.74	9.1	(6.74-12)
66	Japan	26.73	28.89	24.69	26.73	(24.69-28.89)
67	Netherlands	36.48	40.75	32.15	36.48	(32.15-40.75)
68	Dominica	13.67	17.69	9.71	13.67	(9.71-17.69)
69	Estonia	43.07	51.28	35.27	43.07	(35.27-51.28)
70	Chile	16.75	19.07	14.74	16.75	(14.74-19.07)
71	Guyana	7.09	9.22	5.37	7.09	(5.37-9.22)
72	Germany	56.84	62.36	51.98	56.84	(51.98-62.36)
73	Saint Vincent and the Grenadines	15.3	17.73	13.2	15.3	(13.2-17.73)
74	Austria	46.05	51.53	40.19	46.05	(40.19-51.53)
75	Ireland	40.59	45.45	36.46	40.59	(36.46-45.45)
76	Malta	38.16	45.48	31.52	38.16	(31.52-45.48)
77	Bolivia (Plurinatio nal State of)	14.34	19.08	9.86	14.34	(9.86-19.08)
78	Portugal	38.56	44.27	33.69	38.56	(33.69-44.27)
79	Slovakia	33.64	44.32	22.64	33.64	(22.64-44.32)
80	Iceland	45.05	51.27	39.19	45.05	(39.19-51.27)
81	United	40.54	42.39	38.52	40.54	(38.52-42.39)

	Kingdom				
82	Barbados	16.6	21.24	12.99	16.6 (12.99–21.24)
83	Bahamas	11.38	14.31	8.94	11.38 (8.94–14.31)
84	Brazil	10.22	10.87	9.6	10.22 (9.6–10.87)
85	Spain	51.08	57.09	45.03	51.08 (45.03–57.09)
86	France	51.71	58.3	45.64	51.71 (45.64–58.3)
87	Belize	10.76	12.26	9.46	10.76 (9.46–12.26)
88	Greece	54.33	59.1	49.52	54.33 (49.52–59.1)
89	Trinidad and Tobago	10.2	12.95	7.82	10.2 (7.82–12.95)
90	Cuba	16.73	19.53	14.26	16.73 (14.26–19.53)
91	Panama	16.93	21.19	13.74	16.93 (13.74–21.19)
92	Cyprus	50.93	65.32	31.94	50.93 (31.94–65.32)
93	Canada	46.32	50.77	42.07	46.32 (42.07–50.77)
94	Antigua and Barbuda	10.03	11.28	9.07	10.03 (9.07–11.28)
95	Grenada	17.28	19.67	14.8	17.28 (14.8–19.67)
96	Haiti	11.88	17.27	7.48	11.88 (7.48–17.27)
97	Argentina	14.26	15.95	12.75	14.26 (12.75–15.95)
98	Bahrain	17.76	23.67	12.86	17.76 (12.86–23.67)
99	Suriname	9.33	12.1	6.89	9.33 (6.89–12.1)
100	Uruguay	24.57	27.28	21.98	24.57 (21.98–27.28)
101	Saint Lucia	11.94	14.76	9.71	11.94 (9.71–14.76)
102	Peru	17.85	23.79	11.2	17.85 (11.2–23.79)
103	Ecuador	13.8	16.7	11.22	13.8 (11.22–16.7)
104	Costa Rica	23.15	26.82	20	23.15 (20–26.82)
105	Singapore	22	25.21	19.27	22 (19.27–25.21)
106	Norway	39.24	43	35.56	39.24 (35.56–43)
107	Guatemala	10.17	11.91	8.71	10.17 (8.71–11.91)
108	Jamaica	14.36	19.06	10.9	14.36 (10.9–19.06)
109	El Salvador	17.82	22.75	12.64	17.82 (12.64–22.75)
110	Mexico	12.33	13.83	11.05	12.33 (11.05–13.83)
111	Colombia	15.83	19.47	13.03	15.83 (13.03–19.47)
112	Algeria	10.28	13.84	7.25	10.28 (7.25–13.84)
113	Paraguay	13.26	17.89	9.43	13.26 (9.43–17.89)
114	Honduras	9.47	12.91	6.86	9.47 (6.86–12.91)
115	Nicaragua	9.81	12.3	7.17	9.81 (7.17–12.3)
116	Venezuela (Bolivarian Republic of)	11.89	16.29	8.52	11.89 (8.52–16.29)
117	Egypt	17.29	22.94	10.73	17.29 (10.73–22.94)
118	Iran (Islamic Republic of)	22.56	29.13	11.51	22.56 (11.51–29.13)
119	Iraq	17.62	23.3	12.34	17.62 (12.34–23.3)
120	Jordan	17.74	24.26	11.4	17.74 (11.4–24.26)
121	Kuwait	21.02	26.43	16.56	21.02 (16.56–26.43)
122	Afghanistan	16.86	24.75	9.81	16.86 (9.81–24.75)
123	Oman	13.59	18.87	9.1	13.59 (9.1–18.87)
124	Türkiye	24	30.51	16.42	24 (16.42–30.51)
125	Lebanon	23.79	32.52	15.99	23.79 (15.99–32.52)

126	Palestine	29.88	38.59	24	29.88 (24-38.59)
127	Saudi Arabia	16.39	25.3	11.85	16.39 (11.85-25.3)
128	Qatar	27.33	38.51	16.35	27.33 (16.35-38.51)
129	Morocco	2.77	3.66	1.83	2.77 (1.83-3.66)
130	Tunisia	11.73	17.46	6.81	11.73 (6.81-17.46)
131	Libya	21.88	30.37	15.07	21.88 (15.07-30.37)
132	Yemen	11.45	17.07	6.07	11.45 (6.07-17.07)
133	Syrian Arab Republic	22.97	32.38	14.8	22.97 (14.8-32.38)
134	Angola	3.94	5.99	2.2	3.94 (2.2-5.99)
135	Nepal	6.84	9.66	4.99	6.84 (4.99-9.66)
136	United Arab Emirates	19.04	25.76	13.37	19.04 (13.37-25.76)
137	Bangladesh	7.17	10.21	4.9	7.17 (4.9-10.21)
138	Congo	4.5	6.41	2.73	4.5 (2.73-6.41)
139	Burundi	5.41	8.33	3.11	5.41 (3.11-8.33)
140	Bhutan	7.33	11.16	4.73	7.33 (4.73-11.16)
141	India	6.54	8.02	5.07	6.54 (5.07-8.02)
142	Djibouti	6.47	10.47	3.75	6.47 (3.75-10.47)
143	Pakistan	8.36	11.32	6.22	8.36 (6.22-11.32)
144	Comoros	6.49	9.16	4.4	6.49 (4.4-9.16)
145	Equatorial Guinea	4.98	8.18	2.48	4.98 (2.48-8.18)
146	Gabon	4.96	7.3	2.83	4.96 (2.83-7.3)
147	Madagascar	4.85	6.67	3.09	4.85 (3.09-6.67)
148	Mauritius	12.98	13.9	12.03	12.98 (12.03-13.9)
149	Democratic Republic of the Congo	3.65	5.54	2.03	3.65 (2.03-5.54)
150	Central African Republic	3.79	5.29	2.37	3.79 (2.37-5.29)
151	Somalia	6.1	8.7	4.08	6.1 (4.08-8.7)
152	Rwanda	6.32	9.33	3.98	6.32 (3.98-9.33)
153	Eritrea	6.25	8.41	4.03	6.25 (4.03-8.41)
154	Ethiopia	17.42	27.9	11.77	17.42 (11.77-27.9)
155	Malawi	1.93	2.92	1.15	1.93 (1.15-2.92)
156	Seychelles	17.77	23.01	14.51	17.77 (14.51-23.01)
157	Botswana	5.71	8.19	3.52	5.71 (3.52-8.19)
158	Mozambique	8.46	12.03	5.73	8.46 (5.73-12.03)
159	Namibia	4.92	6.83	3.4	4.92 (3.4-6.83)
160	Uganda	5.05	7.44	3.03	5.05 (3.03-7.44)
161	Kenya	5.2	7.24	3.65	5.2 (3.65-7.24)
162	Lesotho	7.29	9.93	5.2	7.29 (5.2-9.93)
163	Cote d'Ivoire	1.95	2.85	1.04	1.95 (1.04-2.85)
164	Zambia	6.72	9.35	4.24	6.72 (4.24-9.35)
165	United Republic of Tanzania	6.48	9.49	3.97	6.48 (3.97-9.49)
166	Ghana	3.43	4.89	2.38	3.43 (2.38-4.89)
167	Guinea	0.85	1.29	0.48	0.85 (0.48-1.29)
168	South Africa	8.57	10.24	5.28	8.57 (5.28-10.24)

169	Eswatini	7.33	10.99	4.79	7.33	(4.79–10.99)
170	Zimbabwe	7.62	10.16	5.37	7.62	(5.37–10.16)
171	Burkina Faso	2.91	4.04	1.3	2.91	(1.3–4.04)
172	Cameroon	3.34	5.1	1.48	3.34	(1.48–5.1)
173	Liberia	3.2	4.83	1.38	3.2	(1.38–4.83)
174	Nigeria	2.34	3.24	1.21	2.34	(1.21–3.24)
175	Benin	2.93	4.12	1.33	2.93	(1.33–4.12)
176	Cabo Verde	10.75	14.39	7.13	10.75	(7.13–14.39)
177	Gambia	1.38	1.83	0.87	1.38	(0.87–1.83)
178	Senegal	3.13	4.75	1.43	3.13	(1.43–4.75)
179	Sao Tome and Principe	1.92	2.73	1.2	1.92	(1.2–2.73)
180	Mauritania	3.38	4.91	1.53	3.38	(1.53–4.91)
181	Chad	2.8	4.04	1.32	2.8	(1.32–4.04)
182	Mali	1.69	2.32	1.02	1.69	(1.02–2.32)
183	Guinea-Bissau	3.33	4.69	1.72	3.33	(1.72–4.69)
184	Cook Islands	2.97	4.26	1.92	2.97	(1.92–4.26)
185	Monaco	139.2 <sub>5</sub>	189.55	94.43	139.25	(94.43–189.55)
186	Nauru	8.34	12.33	5.45	8.34	(5.45–12.33)
187	Niue	12.27	15.83	8.91	12.27	(8.91–15.83)
188	Northern Mariana Islands	11.23	14.3	5.74	11.23	(5.74–14.3)
189	Togo	3.17	4.62	1.35	3.17	(1.35–4.62)
190	Guam	5.83	7.63	4.51	5.83	(4.51–7.63)
191	Sierra Leone	2.85	4.1	1.22	2.85	(1.22–4.1)
192	Greenland	7.67	10.59	5.52	7.67	(5.52–10.59)
193	Bermuda	22.92	28.97	18.05	22.92	(18.05–28.97)
194	United States Virgin Islands	12.86	17.56	8.68	12.86	(8.68–17.56)
195	American Samoa	9.54	12.4	6.65	9.54	(6.65–12.4)
196	Niger	2.49	4.23	1.06	2.49	(1.06–4.23)
197	Palau	7.01	8.96	5.13	7.01	(5.13–8.96)
198	San Marino	84.77	121.66	52.59	84.77	(52.59–121.66)
199	South Sudan	7.17	10.01	4.68	7.17	(4.68–10.01)
200	Saint Kitts and Nevis	13.77	16.57	11.36	13.77	(11.36–16.57)
201	Tuvalu	6.28	8.39	4.44	6.28	(4.44–8.39)
202	Tokelau	13.71	22.05	8.08	13.71	(8.08–22.05)
203	Puerto Rico	20.12	23.91	16.59	20.12	(16.59–23.91)
204	Sudan	13.52	19.22	8.37	13.52	(8.37–19.22)
	The average ASPR	18.29 <sub>5</sub>	22.964 <sub>70588</sub>	14.2139 <sub>7059</sub>	18.3	(14.21–22.96)

---