

Supplementary Tables

Table S1. Global Burden of NPC Disease by Sex for Incidence and Mortality in 2020

Population	incidence both sex					female					male					death both sex					female					male					
	Number	Uncertainty interval	Crude Rate	ASR (World)	Cum. risk	Number	Uncertainty interval	Crude Rate	ASR (World)	Cum. risk	Number	Uncertainty interval	Crude Rate	ASR (World)	Cum. risk	Number	Uncertainty interval	Crude Rate	ASR (World)	Cum. risk	Number	Uncertainty interval	Crude Rate	ASR (World)	Cum. risk	Number	Uncertainty interval	Crude Rate	ASR (World)	Cum. risk	
HDI Regions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
High HDI	93153	[89082.8-97409.2]	3.2	2.5	0.35	24852	[22829.0-27054.2]	1.7	1.3	0.19	68301	[64804.8-71985.9]	4.7	3.7	0.53	54850	[51546.1-58365.7]	1.9	1.4	0.24	14316	[12660.3-16188.3]	0.99	0.73	0.13	40534	[37720.0-43557.9]	2.8	2.2	0.38	
Medium HDI	19543	[16770.6-22773.7]	0.84	0.89	0.15	6136	[4665.4-8070.1]	0.54	0.56	0.11	13407	[11149.4-16121.8]	1.1	1.2	0.2	13314	[11738.2-15101.3]	0.57	0.62	0.12	4155	[3276.2-5269.6]	0.37	0.38	0.08	9159	[7895.0-10625.4]	0.77	0.86	0.15	
Very high HDI	14911	[13643.9-16295.8]	0.95	0.66	0.09	3859	[3257.2-4572.1]	0.49	0.34	0.05	11052	[9959.5-12264.4]	1.4	1	0.14	7828	[6963.3-8800.0]	0.5	0.3	0.05	1954	[1569.4-2432.8]	0.25	0.14	0.03	5874	[5120.3-6738.6]	0.76	0.48	0.09	
Low HDI	5722	[3771.0-8682.4]	0.58	0.89	0.15	2135	[1084.7-4202.2]	0.43	0.62	0.1	3587	[2113.0-6089.3]	0.72	1.2	0.2	3996	[2509.3-6363.4]	0.4	0.69	0.13	1488	[699.0-3167.7]	0.3	0.47	0.09	2508	[1389.5-4526.7]	0.51	0.93	0.18	
Regions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Australia and New Zealand	176	[146.2-211.9]	0.58	0.42	0.06	42	[28.2-62.6]	0.28	0.21	0.03	134	[109.0-164.7]	0.89	0.65	0.09	101	[78.4-130.1]	0.33	0.19	0.04	28	[17.3-45.4]	0.18	0.1	0.02	73	[54.3-98.2]	0.48	0.29	0.06	
Caribbean	313	[213.0-459.8]	0.72	0.56	0.1	66	[27.9-156.2]	0.3	0.22	0.04	247	[161.2-378.6]	1.1	0.94	0.18	198	[139.6-280.9]	0.45	0.34	0.07	41	[18.7-89.9]	0.19	0.13	0.03	157	[106.6-231.3]	0.73	0.58	0.13	

Central America	309	[234.0-408.0]	0.17	0.17	0.03	77	[44.4-133.6]	0.08	0.08	0.01	232	[168.8-318.9]	0.26	0.27	0.06	181	[141.9-230.8]	0.1	0.1	0.02	49	[30.2-79.4]	0.05	0.05	0.01	132	[100.0-174.3]	0.15	0.15	0.03
Central and Eastern Europe	1901	[1689.4-2139.2]	0.65	0.43	0.06	559	[445.7-701.0]	0.36	0.22	0.03	1342	[1168.7-1541.0]	0.97	0.68	0.1	1091	[825.3-1442.2]	0.37	0.22	0.04	308	[182.8-518.9]	0.2	0.11	0.02	783	[563.4-1088.1]	0.57	0.37	0.07
Eastern Africa	3186	[2074.9-4892.0]	0.72	1.1	0.2	1216	[600.1-2464.1]	0.54	0.81	0.13	1970	[1147.9-3380.7]	0.89	1.5	0.29	2201	[1352.0-3583.3]	0.49	0.88	0.18	843	[374.8-1896.3]	0.38	0.62	0.12	1358	[735.1-2508.7]	0.61	1.2	0.26
Eastern Asia	65866	[63590.8-68222.6]	3.9	2.7	0.35	18009	[16846.9-19251.3]	2.2	1.5	0.19	47857	[45916.7-49879.3]	5.6	3.9	0.52	36453	[34488.3-38529.5]	2.2	1.4	0.23	10108	[9055.2-11283.2]	1.2	0.75	0.13	26345	[24707.8-28090.6]	3.1	2	0.34
Melanesia	22	[5.1-95.0]	0.2	0.25	0.03	2	[0.10-32.5]	0.04	0.04	0	20	[3.5-113.6]	0.35	0.46	0.05	14	[7.8-25.3]	0.13	0.17	0.02	1	[0.30-3.1]	0.02	0.02	0	13	[6.5-26.0]	0.23	0.31	0.04
Micronesia	19	[9.8-37.0]	3.5	3.3	0.66	2	[0.60-6.8]	0.74	0.49	0.49	17	[7.7-37.6]	6.1	5.9	0.71	17	[7.3-39.3]	3.1	3	0.62	2	[0.40-9.6]	0.74	0.49	0.49	15	[5.6-40.5]	5.4	5.4	0.64
Middle Africa	1212	[758.3-1937.2]	0.67	1.1	0.15	447	[213.2-937.1]	0.5	0.73	0.09	765	[417.0-1403.4]	0.85	1.5	0.22	852	[531.7-1365.2]	0.47	0.86	0.13	316	[150.3-664.5]	0.35	0.57	0.07	536	[291.3-986.4]	0.6	1.2	0.19
Northern Africa	3525	[2784.6-4462.2]	1.4	1.6	0.25	1126	[749.2-1692.3]	0.92	0.97	0.14	2399	[1796.7-3203.2]	1.9	2.2	0.39	2113	[1626.4-2745.2]	0.86	0.98	0.2	669	[425.6-1051.6]	0.55	0.6	0.11	1444	[1047.5-1990.5]	1.2	1.4	0.3
Northern America	2177	[2076.8-2282.1]	0.59	0.41	0.06	622	[569.0-680.0]	0.33	0.23	0.03	1555	[1470.7-1644.2]	0.85	0.6	0.09	1071	[998.6-1148.7]	0.29	0.16	0.04	314	[275.6-357.8]	0.17	0.09	0.02	757	[696.5-822.7]	0.41	0.24	0.05
Northern Europe	415	[358.8-479.9]	0.39	0.26	0.04	128	[98.6-166.2]	0.24	0.16	0.02	287	[241.0-341.8]	0.55	0.36	0.05	247	[203.3-300.1]	0.23	0.12	0.03	60	[40.4-89.2]	0.11	0.05	0.01	187	[150.1-233.0]	0.36	0.19	0.05
Polynesia	11	[4.6-26.6]	1.6	1.4	0.26	2	[0.40-10.3]	0.59	0.57	0.05	9	[3.2-25.6]	2.6	2.3	0.49	9	[1.3-61.9]	1.3	1.2	0.23	2	[0.20-22.6]	0.59	0.57	0.05	7	[1.0-48.1]	2	1.9	0.44
South America	1423	[1061.5-1907.6]	0.33	0.28	0.05	430	[261.1-708.3]	0.2	0.15	0.03	993	[688.3-1432.5]	0.47	0.42	0.08	797	[696.2-912.4]	0.19	0.15	0.03	245	[191.3-313.8]	0.11	0.08	0.02	552	[469.7-648.7]	0.26	0.23	0.05

South-Cen tral Asia	8366	[7213.2-9703.2]	0.42	0.43	0.08	2755	[2113.4-3591.4]	0.28	0.29	0.06	5611	[4692.9-6708.7]	0.54	0.57	0.1	6117	[5252.6-7123.7]	0.3	0.32	0.06	2006	[1526.8-2635.7]	0.21	0.21	0.05	4111	[3421.4-4939.5]	0.4	0.42	0.07
South-East ern Asia	36747	[34079.4-39623.4]	5.5	5	0.75	9386	[8198.9-10745.0]	2.8	2.5	0.37	27361	[24986.8-29960.8]	8.2	7.7	1.2	24219	[22393.5-26193.3]	3.6	3.3	0.59	5698	[4950.6-6558.2]	1.7	1.5	0.28	18521	[16852.8-20354.3]	5.5	5.4	0.97
Southern Africa	212	[168.2-267.2]	0.31	0.34	0.07	72	[47.8-108.4]	0.21	0.21	0.05	140	[105.8-185.3]	0.42	0.5	0.1	145	[111.0-189.3]	0.21	0.25	0.06	50	[31.8-78.7]	0.15	0.15	0.04	95	[68.7-131.4]	0.29	0.37	0.09
Southern Europe	1584	[1275.6-1966.9]	1	0.64	0.09	354	[227.5-550.9]	0.45	0.28	0.04	1230	[959.8-1576.3]	1.6	1	0.14	746	[637.1-873.5]	0.49	0.24	0.05	185	[132.6-258.1]	0.24	0.1	0.02	561	[470.1-669.5]	0.75	0.38	0.08
Western Africa	1906	[1011.5-3591.5]	0.47	0.7	0.1	653	[220.2-1936.0]	0.33	0.46	0.07	1253	[574.3-2734.0]	0.62	0.96	0.13	1289	[740.3-2244.6]	0.32	0.53	0.09	444	[169.7-1161.7]	0.22	0.35	0.07	845	[428.6-1666.1]	0.42	0.73	0.11
Western Asia	2680	[2027.6-3542.2]	0.96	1	0.15	667	[387.4-1148.5]	0.5	0.5	0.07	2013	[1455.3-2784.5]	1.4	1.5	0.24	1645	[1395.0-1939.8]	0.59	0.63	0.11	409	[298.6-560.2]	0.31	0.32	0.05	1236	[1018.1-1500.6]	0.85	0.96	0.18
Western Europe	1304	[1101.4-1543.8]	0.66	0.4	0.06	368	[244.4-554.0]	0.37	0.21	0.03	936	[780.8-1122.0]	0.97	0.59	0.09	502	[421.3-598.2]	0.26	0.12	0.03	136	[97.5-189.7]	0.14	0.06	0.01	366	[298.4-448.8]	0.38	0.19	0.04

Note: ASR:age-related age-standardized rate, NPC: Nasopharyngeal carcinoma, HDI: Human Development Index.

Table S2. Global Burden of NPC Disease by Sex for Incidence and Mortality in Each HDI Region in 2020

Popula tion	incidence										death																			
	both sex					female					male					both sex					female					male				
	Nu mbe r	Uncertaint y interval	Crud e Rate	ASR (Worl d)	Cum . risk	Nu mbe r	Uncertaint y interval	Crud e Rate	ASR (Worl d)	Cum . risk	Nu mbe r	Uncertaint y interval	Crud e Rate	ASR (Worl d)	Cum . risk	Nu mbe r	Uncertaint y interval	Crud e Rate	ASR (Worl d)	Cum . risk	Num ber	Uncertain ty interval	Crud e Rate	ASR (Worl d)	Cum . risk	Nu mbe r	Uncertaint y interval	Crud e Rate	ASR (Worl d)	Cum . risk
High HDI	931 53	[89082.8-9 7409.2]	3.2	2.5	0.a35	248 52	[22829.0-2 7054.2]	1.7	1.3	0.19	683 01	[64804.8-7 1985.9]	4.7	3.7	0.53	548 50	[51546.1-5 8365.7]	1.9	1.4	0.24	143 16	[12660.3-16 188.3]	0.99	0.73	0.13	405 34	[37720.0-4 3557.9]	2.8	2.2	0.38
Mediu m HDI	195 43	[16770.6-2 2773.7]	0.84	0.89	0.15	613 6	[4665.4-80 70.1]	0.54	0.56	0.11	134 07	[11149.4-1 6121.8]	1.1	1.2	0.2	133 14	[11738.2-1 5101.3]	0.57	0.62	0.12	415 5	[3276.2-526 9.6]	0.37	0.38	0.08	915 9	[7895.0-10 625.4]	0.77	0.86	0.15
Very high HDI	149 11	[13643.9-1 6295.8]	0.95	0.66	0.09	385 9	[3257.2-45 72.1]	0.49	0.34	0.05	110 52	[9959.5-12 264.4]	1.4	1	0.14	782 8	[6963.3-88 00.0]	0.5	0.3	0.05	195 4	[1569.4-243 2.8]	0.25	0.14	0.03	587 4	[5120.3-67 38.6]	0.76	0.48	0.09
Low HDI	572 2	[3771.0-86 82.4]	0.58	0.89	0.15	213 5	[1084.7-42 02.2]	0.43	0.62	0.1	358 7	[2113.0-60 89.3]	0.72	1.2	0.2	399 6	[2509.3-63 63.4]	0.4	0.69	0.13	148 8	[699.0-3167. 7]	0.3	0.47	0.09	250 8	[1389.5-45 26.7]	0.51	0.93	0.18

Table S3. Global Burden of NPC Disease by Sex and countries for incidence in 2020

Population	Both sex					Female					Male				
	Number	Uncertainty interval	Crude Rate	ASR (World)	Cum. risk	Number	Uncertainty interval	Crude Rate	ASR (World)	Cum. risk	Number	Uncertainty interval	Crude Rate	ASR (World)	Cum. risk
Afghanistan	121	[47.9-305.8]	0.31	0.47	0.07	36	[7.2-179.3]	0.19	0.28	0.04	85	[27.3-264.6]	0.43	0.66	0.1
Albania	39	[19.6-77.5]	1.4	0.84	0.15	13	[3.7-45.1]	0.92	0.58	0.1	26	[11.4-59.1]	1.8	1.1	0.2
Algeria	1401	[1199.1-1636.9]	3.2	3.2	0.44	408	[307.4-541.5]	1.9	1.8	0.26	993	[824.3-1196.3]	4.5	4.5	0.63
Angola	104	[32.9-328.3]	0.32	0.57	0.07	34	[3.4-338.7]	0.2	0.33	0.04	70	[18.6-263.9]	0.43	0.83	0.11
Argentina	146	[107.0-199.2]	0.32	0.26	0.05	49	[28.4-84.5]	0.21	0.15	0.03	97	[66.5-141.5]	0.44	0.39	0.07
Armenia	12	[9.4-15.3]	0.4	0.3	0.04	4	[2.6-6.2]	0.25	0.16	0.03	8	[5.9-10.8]	0.57	0.47	0.05
Australia	144	[115.8-179.1]	0.56	0.41	0.05	34	[23.5-49.2]	0.27	0.19	0.03	110	[84.3-143.6]	0.87	0.64	0.09
Austria	42	[29.2-60.4]	0.47	0.28	0.04	11	[5.6-21.5]	0.24	0.13	0.02	31	[20.1-47.7]	0.7	0.42	0.07
Azerbaijan	67	[45.6-98.5]	0.66	0.6	0.09	24	[12.6-45.6]	0.47	0.43	0.06	43	[26.5-69.6]	0.85	0.8	0.13
Bahrain	7	[2.5-19.9]	0.41	0.59	0.15	2	[0.30-13.3]	0.33	0.59	0.12	5	[1.4-17.3]	0.45	0.62	0.18
Bangladesh	872	[345.0-2203.7]	0.53	0.58	0.08	248	[49.8-1235.5]	0.3	0.32	0.05	624	[200.5-1942.3]	0.75	0.83	0.11
Belarus	35	[24.1-50.8]	0.37	0.24	0.03	6	[3.1-11.6]	0.12	0.05	0.01	29	[18.4-45.6]	0.66	0.47	0.05
Belgium	75	[57.7-97.5]	0.65	0.44	0.06	16	[9.0-28.4]	0.27	0.2	0.02	59	[43.9-79.3]	1	0.69	0.09
Benin	68	[23.6-196.0]	0.56	0.83	0.21	38	[9.4-154.2]	0.63	0.88	0.3	30	[6.0-151.1]	0.5	0.72	0.07
Bhutan	16	[12.7-20.1]	2.1	2.1	0.23	6	[4.0-9.0]	1.7	1.6	0.15	10	[7.6-13.2]	2.4	2.6	0.29
Bolivia, Plurinational State of	3	[0.50-19.4]	0.03	0.03	0	8	[2.2-28.8]	0.48	0.22	0.06	3	[0.20-59.5]	0.05	0.06	0.01
Bosnia and Herzegovina	20	[9.2-43.6]	0.61	0.33	0.07	1	[0.20-4.4]	0.08	0.07	0.01	12	[4.5-32.0]	0.75	0.45	0.09
Botswana	9	[4.2-19.4]	0.38	0.43	0.07	239	[163.0-350.3]	0.22	0.18	0.03	8	[3.3-19.4]	0.7	0.9	0.16
Brazil	836	[685.7-1019.3]	0.39	0.33	0.06	15	[7.0-32.1]	7.1	6.4	1.43	597	[473.5-752.7]	0.57	0.5	0.09
Brunei Darussalam	46	[28.9-73.2]	10.5	9.9	1.94	22	[13.9-34.9]	0.62	0.36	0.05	31	[17.2-55.8]	13.7	13.4	2.45
Bulgaria	84	[65.6-107.6]	1.2	0.72	0.1	2	[0.20-21.3]	0.02	0.01	0	62	[46.3-83.1]	1.8	1.1	0.16

Burkina Faso	11	[2.6-47.1]	0.05	0.07	0.01	29	[2.2-376.5]	0.48	0.84	0.09	9	[1.4-56.9]	0.09	0.12	0.01
Burundi	76	[16.0-362.1]	0.64	1.2	0.25	1	[0.10-11.3]	0.36	0.36	0.03	47	[6.6-335.0]	0.8	1.8	0.48
Cabo Verde	3	[0.50-16.7]	0.54	0.49	0.04	88	[30.2-256.1]	1	1.1	0.14	2	[0.20-22.7]	0.72	0.62	0.05
Cambodia	299	[155.4-575.2]	1.8	2.1	0.33	143	[60.0-340.7]	1.1	1.5	0.18	211	[92.2-482.7]	2.6	3.4	0.61
Cameroon	397	[232.7-677.4]	1.5	2.3	0.28	84	[51.8-136.3]	0.44	0.3	0.04	254	[128.9-500.4]	1.9	3.1	0.4
Canada	279	[219.4-354.8]	0.74	0.48	0.07	17	[1.7-173.7]	0.7	1	0.1	195	[147.8-257.2]	1	0.67	0.1
Central African Republic	43	[11.2-164.5]	0.89	1.4	0.15	44	[4.3-449.7]	0.53	0.83	0.12	26	[5.0-134.5]	1.1	1.9	0.22
Chad	124	[32.4-474.5]	0.75	1.3	0.18	12	[4.2-34.0]	0.12	0.08	0.02	80	[15.5-413.9]	0.98	1.8	0.26
Chile	22	[11.1-43.7]	0.12	0.08	0.02	17113	[16060.1-18235.0]	2.4	1.7	0.23	10	[4.0-24.9]	0.11	0.07	0.03
China	62444	[60383.3-64575.1]	4.3	3	0.4	48	[27.5-83.7]	0.19	0.14	0.04	45331	[43574.1-47158.8]	6.1	4.3	0.59
Colombia	155	[112.8-212.9]	0.3	0.26	0.05	197	[19.3-2013.4]	0.44	0.65	0.08	107	[72.7-157.5]	0.43	0.39	0.07
Congo, Democratic Republic of	504	[131.7-1928.6]	0.56	0.94	0.14	7	[1.0-47.1]	0.25	0.32	0.03	307	[59.3-1588.3]	0.69	1.3	0.21
Congo, Republic of	18	[6.0-54.1]	0.33	0.55	0.08	5	[2.2-11.5]	0.2	0.16	0.03	11	[2.9-42.4]	0.4	0.83	0.13
Costa Rica	23	[14.1-37.5]	0.45	0.39	0.06	7	[3.0-16.1]	0.33	0.19	0.03	18	[9.8-32.9]	0.71	0.62	0.09
Croatia	28	[19.0-41.3]	0.68	0.37	0.06	41	[23.9-70.4]	0.72	0.43	0.07	21	[13.6-32.5]	1.1	0.59	0.12
Cuba	187	[133.2-262.5]	1.7	0.92	0.17	1	[0.10-10.5]	0.17	0.13	0.01	146	[94.7-225.1]	2.6	1.5	0.28
Cyprus	5	[1.7-14.9]	0.41	0.32	0.03	16	[9.3-27.6]	0.29	0.15	0.03	4	[1.2-13.6]	0.66	0.52	0.05
Czechia	55	[41.0-73.8]	0.51	0.29	0.04	48	[21.5-106.9]	0.37	0.47	0.04	39	[27.5-55.3]	0.74	0.43	0.07
C 魁 e d'Ivoire	97	[56.1-167.9]	0.37	0.51	0.05	7	[3.1-15.6]	0.24	0.15	0.02	49	[23.1-104.0]	0.37	0.55	0.06
Denmark	24	[15.0-38.5]	0.41	0.26	0.04	6	[1.6-22.8]	0.11	0.11	0.03	17	[9.5-30.4]	0.59	0.36	0.05
Djibouti	6	[1.3-28.6]	0.61	0.66	0.07	16	[5.8-44.2]	0.18	0.14	0.07	6	[0.80-42.8]	1.2	1.3	0.13
Dominican Republic	36	[19.0-68.2]	0.33	0.33	0.05	56	[27.3-115.0]	0.11	0.13	0.02	30	[14.5-61.9]	0.55	0.55	0.07
Ecuador	33	[17.1-63.8]	0.19	0.16	0.07	2	[0.20-20.4]	0.32	0.53	0.04	17	[7.2-40.4]	0.19	0.19	0.06
Egypt	260	[177.1-381.7]	0.25	0.3	0.1	12	[0.90-155.8]	0.68	0.88	0.09	204	[129.6-321.2]	0.39	0.54	0.23

Equatorial Guinea	12	[3.1-45.9]	0.86	1.3	0.14	1	[0.20-5.3]	0.14	0.02	0.02	10	[1.9-51.7]	1.3	2	0.23
Eritrea	30	[6.3-142.9]	0.85	1.2	0.15	294	[141.7-609.8]	0.51	0.68	0.14	18	[2.5-128.3]	1	1.6	0.22
Estonia	8	[2.9-21.8]	0.6	0.35	0.05	4	[1.7-9.6]	0.14	0.09	0.01	7	[2.0-24.3]	1.1	0.71	0.09
Eswatini	1	[0.30-3.9]	0.09	0.08	0.01	186	[127.5-271.4]	0.55	0.3	0.05	1	[0.20-5.8]	0.18	0.18	0.01
Ethiopia	739	[456.3-1196.8]	0.64	0.91	0.19	1	[0.10-10.0]	0.49	0.27	0.03	445	[234.1-845.9]	0.77	1.2	0.26
Fiji	3	[1.8-4.9]	0.33	0.29	0.03	1	[0.20-6.2]	0.72	0.55	0.06	3	[1.7-5.3]	0.66	0.57	0.07
Finland	14	[8.3-23.5]	0.25	0.14	0.02	3	[0.30-32.6]	0.27	0.36	0.03	10	[5.3-19.0]	0.37	0.2	0.04
France	632	[486.0-821.9]	0.97	0.6	0.09	8	[0.70-89.0]	0.32	0.36	0.03	446	[309.4-642.8]	1.4	0.93	0.15
France, La R 閩 nion	1	[0.30-3.7]	0.25	0.16	0.02	10	[6.5-15.4]	0.48	0.36	0.04	1	[0.20-4.9]	0.54	0.36	0.04
France, Martinique	4	[1.4-11.1]	0.45	0.23	0.1	114	[84.7-153.4]	0.27	0.15	0.02	4	[1.3-12.6]	0.92	0.53	0.27
France, New Caledonia	2	[0.60-6.6]	0.53	0.27	0.04	56	[8.6-362.6]	0.37	0.41	0.04	1	[0.20-4.1]	0.58	0.28	0.05
French Polynesia	3	[0.90-10.5]	1.1	0.83	0.1	43	[23.8-77.7]	0.81	0.4	0.07	3	[0.70-13.5]	2.1	1.7	0.2
Gabon	5	[1.7-15.0]	1.8	1.3	0.17	1	[0.30-3.4]	1.2	0.39	0.39	4	[1.0-15.8]	2.8	2.1	0.29
Gaza Strip and West Bank	10	[1.9-54.0]	0.45	0.61	0.06	5	[1.0-25.9]	0.06	0.07	0.02	7	[0.60-76.1]	0.62	0.89	0.1
Georgia	31	[5.0-193.3]	0.61	0.86	0.11	4	[0.30-50.5]	0.06	0.09	0.01	23	[1.4-383.4]	0.89	1.4	0.19
Germany	28	[21.9-35.8]	0.7	0.47	0.08	1	[0.10-17.8]	0.26	0.26	0.06	18	[13.4-24.2]	0.95	0.66	0.16
Ghana	421	[328.8-539.1]	0.5	0.28	0.04	4	[1.1-15.2]	0.07	0.09	0.02	307	[190.3-495.4]	0.74	0.41	0.07
Greece	176	[59.9-517.4]	0.57	0.64	0.06	10	[0.90-116.2]	0.2	0.21	0.04	120	[32.0-449.5]	0.76	0.86	0.08
Guam	193	[144.8-257.2]	1.9	1	0.17	37	[20.0-68.6]	0.73	0.48	0.06	150	[108.0-208.3]	2.9	1.7	0.28
Guatemala	7	[3.6-13.6]	4.1	3.1	0.58	1971	[1572.6-2470.4]	0.3	0.29	0.07	6	[2.7-13.2]	7	5.6	0.67
Guinea	16	[7.2-35.4]	0.09	0.13	0.03	4516	[3632.9-5613.8]	3.3	3	0.41	11	[4.5-26.9]	0.12	0.21	0.04
Haiti	8	[1.7-38.0]	0.06	0.13	0.02	105	[80.9-136.3]	0.25	0.24	0.06	4	[0.60-28.8]	0.06	0.19	0.04
Honduras	1	[0.10-7.7]	0.13	0.13	0.03	36	[24.6-52.7]	0.18	0.25	0.04	24	[11.6-49.5]	0.43	0.5	0.07
Hungary	28	[14.8-53.0]	0.25	0.29	0.05	4	[1.4-11.3]	0.16	0.11	0.02	25	[5.5-114.4]	0.51	0.65	0.07

India	35	[9.6-127.5]	0.35	0.42	0.05	11	[5.6-21.6]	0.25	0.22	0.03	55	[36.3-83.4]	1.2	0.75	0.11
Indonesia	92	[65.1-129.9]	0.95	0.6	0.08	122	[86.1-172.8]	0.39	0.26	0.03	3726	[3196.3-4343.4]	0.52	0.54	0.1
Iran, Islamic Republic of	5697	[5018.2-6467.4]	0.41	0.42	0.09	9	[2.8-29.2]	0.6	0.46	0.09	15427	[13307.3-17884.4]	11.2	10.7	1.6
Iraq	19943	[17647.8-22536.7]	7.3	6.8	0.97	220	[154.7-312.8]	0.34	0.18	0.03	217	[180.4-261.0]	0.51	0.48	0.09
Ireland	322	[277.0-374.4]	0.38	0.36	0.07	25	[13.1-47.8]	0.5	0.57	0.12	126	[102.1-155.5]	0.62	0.95	0.14
Israel	162	[134.8-194.8]	0.4	0.58	0.09	37	[24.7-55.4]	0.38	0.35	0.04	19	[10.9-33.2]	0.78	0.55	0.08
Italy	23	[14.0-37.7]	0.47	0.33	0.05	292	[173.0-492.9]	1.1	1.7	0.29	36	[24.5-52.9]	0.84	0.73	0.13
Jamaica	47	[33.6-65.6]	0.54	0.46	0.07	106	[30.5-368.0]	0.8	0.6	0.08	507	[327.8-784.1]	1.7	1	0.14
Japan	629	[479.2-825.6]	1	0.64	0.08	95	[67.5-133.6]	0.37	0.22	0.03	13	[5.2-32.8]	0.88	0.8	0.15
Jordan	22	[10.6-45.6]	0.74	0.62	0.12	8	[3.0-21.2]	0.48	0.43	0.06	623	[506.6-766.2]	1	0.53	0.09
Kazakhstan	843	[705.3-1007.6]	0.67	0.35	0.06	9	[3.3-24.3]	0.27	0.29	0.09	63	[41.9-94.7]	1.2	1.6	0.23
Kenya	88	[62.3-124.2]	0.86	1.1	0.18	93	[32.0-270.7]	2.6	3.1	0.41	78	[57.7-105.5]	0.86	0.86	0.12
Korea, Democratic Republic of	115	[90.3-146.4]	0.61	0.57	0.07	2	[0.70-6.0]	0.2	0.1	0.01	639	[471.2-866.6]	2.4	4	0.56
Korea, Republic of	931	[715.5-1211.5]	1.7	2.8	0.42	11	[5.5-22.2]	0.32	0.31	0.04	258	[120.0-554.8]	2	1.7	0.26
Kuwait	364	[189.6-698.7]	1.4	1.1	0.15	4	[0.20-65.4]	0.16	0.24	0.03	312	[264.7-367.8]	1.2	0.75	0.12
Kyrgyzstan	407	[350.9-472.0]	0.79	0.48	0.07	43	[17.6-104.8]	1.3	1.3	0.15	27	[14.9-48.9]	1	0.91	0.13
Lao People's Democratic Republic	35	[21.1-58.1]	0.82	0.76	0.11	3	[1.3-7.2]	0.21	0.06	0.02	21	[10.6-41.6]	0.65	0.89	0.26
Latvia	30	[17.1-52.7]	0.46	0.54	0.14	42	[3.2-545.2]	0.3	0.41	0.04	165	[72.1-377.5]	4.5	5.9	0.94
Lebanon	258	[134.1-496.3]	3.5	4.4	0.65	25	[2.6-238.9]	0.26	0.36	0.04	9	[4.2-19.1]	1	0.64	0.1
Lesotho	11	[5.9-20.4]	0.58	0.34	0.05	519	[451.2-597.0]	3.3	3.1	0.41	23	[14.0-37.9]	0.67	0.63	0.09
Liberia	34	[22.6-51.1]	0.5	0.46	0.06	7	[1.4-34.9]	3.5	3.3	0.33	1	[0.10-8.8]	0.09	0.07	0.01
Libya	1	[0.30-3.8]	0.05	0.04	0	17	[2.4-120.5]	0.17	0.31	0.03	6	[0.70-52.9]	0.24	0.43	0.06
Lithuania	10	[1.8-55.7]	0.2	0.33	0.05	1	[0.20-5.3]	0.45	0.44	0.04	84	[42.2-167.3]	2.4	2.6	0.38
Madagascar	127	[73.6-219.0]	1.8	1.9	0.26	3	[0.20-49.1]	0.13	0.14	0.01	11	[5.7-21.2]	0.87	0.53	0.11

Malawi	14	[8.3-23.7]	0.51	0.25	0.05	46	[28.3-74.7]	0.07	0.06	0.01	2	[0.30-13.1]	0.63	0.41	0.06
Malaysia	2	[0.50-8.2]	0.32	0.21	0.03	4	[1.4-11.7]	0.24	0.27	0.04	50	[7.0-356.3]	0.36	0.56	0.11
Maldives	92	[19.3-438.3]	0.33	0.48	0.07	1	[0.10-9.4]	0.31	0.14	0.04	38	[6.8-213.0]	0.4	0.45	0.03
Mali	63	[16.0-247.9]	0.33	0.41	0.04	305	[205.3-453.1]	1.6	1.5	0.2	1703	[1569.5-1847.8]	10.2	9.5	1.27
Malta	2222	[2070.7-2384.4]	6.9	6.4	0.84	15	[1.5-151.3]	0.09	0.1	0.01	30	[9.6-93.4]	8.7	10.7	1.44
Mauritania	37	[14.6-93.5]	6.8	7.4	0.92	688	[236.4-2002.4]	2.4	2.2	0.28	17	[3.1-92.2]	0.17	0.33	0.04
Mauritius	34	[9.5-122.2]	0.17	0.32	0.04	5	[1.7-14.8]	0.38	0.45	0.05	6	[2.4-14.9]	2.7	1.6	0.24
Mexico	7	[3.1-15.7]	1.6	1	0.13	7	[1.9-25.5]	0.04	0.05	0.01	7	[0.80-61.8]	0.3	0.38	0.03
Mongolia	10	[1.8-55.7]	0.22	0.26	0.02	8	[3.8-16.8]	0.33	0.27	0.03	8	[3.4-18.6]	1.3	0.8	0.24
Montenegro	8	[3.6-17.7]	0.63	0.36	0.1	9	[3.1-26.4]	0.27	0.27	0.02	148	[88.7-246.9]	0.23	0.23	0.05
Morocco	194	[136.6-275.6]	0.15	0.14	0.03	9	[0.80-102.9]	0.07	0.07	0	13	[6.7-25.2]	0.8	0.93	0.12
Mozambique	17	[9.7-29.9]	0.52	0.58	0.08	440	[176.6-1096.2]	0.43	0.62	0.09	1	[0.10-9.4]	0.32	0.19	0.05
Myanmar	2	[0.40-9.8]	0.32	0.16	0.04	2	[0.30-13.7]	0.19	0.12	0.01	574	[427.2-771.2]	3.1	3	0.38
Namibia	879	[693.7-1113.7]	2.4	2.2	0.29	5	[2.0-12.5]	0.19	0.12	0.02	11	[1.1-110.9]	0.07	0.07	0.01
Nepal	26	[5.1-133.2]	0.08	0.09	0.01	4	[1.0-15.6]	0.23	0.26	0.02	1434	[626.8-3280.5]	5.5	5.5	0.84
New Zealand	2122	[1103.1-4081.9]	3.9	3.7	0.51	232	[91.7-586.9]	0.22	0.26	0.05	8	[3.5-18.5]	0.65	0.91	0.09
Nicaragua	13	[6.7-25.2]	0.51	0.66	0.07	2	[0.30-11.6]	0.09	0.09	0.01	27	[13.3-54.8]	0.2	0.23	0.03
Niger	34	[18.3-63.3]	0.12	0.13	0.02	2	[0.70-5.7]	0.05	0.06	0.01	24	[14.9-38.7]	1	0.69	0.11
Nigeria	32	[21.4-47.8]	0.66	0.47	0.07	2	[0.20-21.1]	0.06	0.06	0.03	15	[6.2-36.4]	0.46	0.57	0.11
North Macedonia	24	[12.1-47.6]	0.36	0.4	0.06	34	[17.4-66.6]	0.2	0.17	0.04	20	[1.7-228.8]	0.16	0.38	0.05
Norway	29	[5.2-162.5]	0.12	0.22	0.03	969	[734.2-1278.9]	1.8	1.8	0.34	939	[504.1-1749.1]	0.9	1.4	0.21
Oman	1379	[824.7-2305.7]	0.67	1	0.15	99	[67.8-144.6]	0.51	0.22	0.05	9	[2.4-33.4]	0.86	0.67	0.13
Pakistan	11	[3.7-32.6]	0.53	0.38	0.06	28	[13.4-58.5]	0.52	0.32	0.05	9	[4.4-18.3]	0.33	0.21	0.03
Panama	14	[8.0-24.6]	0.26	0.16	0.02	3	[1.0-8.8]	0.2	0.13	0.01	21	[7.3-60.8]	0.62	0.71	0.07

Papua New Guinea	25	[10.8-57.8]	0.49	0.56	0.06	13	[5.3-31.9]	0.62	0.29	0.09	600	[316.8-1136.5]	0.53	0.65	0.08
Paraguay	832	[491.6-1408.1]	0.38	0.46	0.07	125	[85.2-183.3]	1.3	0.8	0.11	15	[6.5-34.4]	0.69	0.63	0.18
Peru	17	[8.0-36.3]	0.39	0.35	0.09	154	[125.3-189.3]	0.2	0.13	0.02	14	[2.0-99.9]	0.31	0.42	0.05
Philippines	16	[6.4-40.2]	0.18	0.24	0.03	13	[1.3-127.9]	0.2	0.31	0.03	11	[4.0-30.4]	0.3	0.37	0.05
Poland	13	[5.1-33.1]	0.18	0.22	0.04	1	[0.10-7.4]	1	1.3	0.1	50	[27.7-90.3]	0.31	0.27	0.05
Portugal	84	[53.9-131.0]	0.25	0.22	0.04	86	[60.7-121.9]	0.59	0.62	0.09	2037	[1572.5-2638.7]	3.7	4.4	0.82
Puerto Rico	3006	[2487.6-3632.4]	2.7	3	0.54	11	[0.70-179.9]	0.13	0.18	0.02	198	[128.6-304.8]	1.1	0.68	0.11
Qatar	297	[223.4-394.8]	0.78	0.44	0.08	26	[12.1-55.9]	0.58	0.31	0.05	90	[61.0-132.9]	1.9	1.1	0.16
Republic of Moldova	118	[83.6-166.5]	1.2	0.7	0.1	6	[2.9-12.6]	0.15	0.2	0.02	22	[13.0-37.2]	1.6	0.81	0.19
Romania	25	[15.6-40.2]	0.87	0.43	0.08	107	[78.8-145.2]	3.8	2.3	0.36	8	[0.80-84.9]	0.37	0.41	0.05
Russian Federation	8	[1.4-44.2]	0.28	0.33	0.04	9	[3.8-21.2]	0.32	0.16	0.03	39	[22.5-67.5]	2	1.4	0.23
Rwanda	52	[32.6-83.0]	1.3	0.81	0.16	2	[0.50-7.4]	0.19	0.08	0.02	278	[206.1-375.0]	3	2	0.26
Samoa	403	[318.3-510.2]	2.1	1.4	0.18	48	[3.7-623.1]	0.6	0.98	0.19	433	[380.8-492.4]	0.64	0.48	0.07
Saudi Arabia	587	[526.4-654.6]	0.4	0.28	0.04	66	[44.9-97.0]	0.22	0.22	0.05	27	[5.0-146.1]	0.42	0.94	0.51
Senegal	40	[10.3-155.6]	0.31	0.54	0.21	45	[3.5-584.2]	0.8	1.2	0.21	4	[0.90-18.0]	3.9	4.7	1.7
Serbia	5	[1.5-16.6]	2.5	2.8	0.75	100	[69.0-145.0]	0.42	0.3	0.04	415	[336.2-512.3]	2.1	1.9	0.28
Sierra Leone	501	[418.3-600.0]	1.4	1.4	0.2	15	[7.6-29.5]	0.13	0.14	0.01	17	[1.9-150.0]	0.21	0.35	0.04
Singapore	28	[5.0-156.0]	0.17	0.26	0.03	212	[153.2-293.4]	0.97	1.3	0.21	55	[32.9-92.0]	1.3	0.9	0.12
Slovakia	81	[52.9-124.1]	0.93	0.6	0.08	10	[5.2-19.1]	0.2	0.14	0.02	9	[4.8-17.0]	0.23	0.33	0.03
Slovenia	15	[9.2-24.3]	0.19	0.26	0.03	17	[4.4-65.2]	0.39	0.25	0.03	338	[283.0-403.7]	11	6.8	1.07
Somalia	445	[381.6-518.9]	7.6	4.6	0.71	32	[2.9-356.1]	0.37	0.39	0.07	31	[20.3-47.4]	1.2	0.72	0.12
South Africa	40	[27.4-58.5]	0.73	0.42	0.07	9	[3.5-23.5]	0.19	0.23	0.05	7	[3.3-14.8]	0.68	0.41	0.05
South Sudan	9	[4.7-17.3]	0.43	0.25	0.04	149	[71.5-310.6]	0.5	0.78	0.1	93	[13.0-662.8]	1.2	2.1	0.4
Spain	141	[29.6-671.8]	0.89	1.5	0.29	676	[552.9-826.6]	1.9	1.2	0.2	122	[93.7-158.8]	0.42	0.49	0.1

Sri Lanka	188	[151.3-233.7]	0.32	0.34	0.07	24	[15.3-37.6]	0.28	0.17	0.02	77	[10.8-548.8]	1.4	2.3	0.44
Sudan	122	[25.6-581.2]	1.1	1.7	0.32	15	[5.2-43.7]	2.3	3	0.34	342	[257.8-453.8]	1.5	0.97	0.13
Suriname	442	[352.9-553.6]	0.95	0.63	0.08	14	[1.0-195.9]	0.34	0.45	0.11	47	[32.5-67.9]	0.46	0.36	0.05
Sweden	62	[44.9-85.7]	0.29	0.24	0.03	2	[0.30-15.9]	0.28	0.22	0.02	298	[227.2-390.9]	1.4	2	0.27
Switzerland	510	[414.1-628.1]	1.2	1.6	0.25	102	[65.2-159.7]	1.7	1.4	0.24	4	[1.1-14.9]	1.4	1.3	0.14
Syrian Arab Republic	4	[1.3-12.5]	0.68	0.62	0.07	276	[142.9-533.1]	0.65	0.54	0.09	21	[13.6-32.4]	0.42	0.29	0.04
Tajikistan	31	[21.6-44.4]	0.31	0.22	0.03	9	[5.4-14.9]	0.29	0.29	0.03	36	[16.9-76.6]	0.84	0.51	0.08
Tanzania, United Republic of	53	[27.4-102.4]	0.61	0.38	0.06	202	[124.2-328.4]	0.87	1.5	0.21	76	[4.6-1266.9]	0.87	1.1	0.16
Thailand	108	[17.3-673.3]	0.62	0.71	0.11	78	[51.8-117.5]	0.33	0.22	0.03	8	[2.8-22.5]	0.17	0.22	0.02
The Netherlands	17	[8.4-34.3]	0.18	0.23	0.04	9	[2.5-31.9]	0.29	0.58	0.09	170	[84.5-341.9]	0.57	1	0.18
Timor-Leste	319	[192.3-529.2]	0.53	0.88	0.13	92	[62.4-135.7]	0.27	0.19	0.03	1640	[1384.1-1943.3]	4.8	3.3	0.54
Togo	2316	[2034.3-2636.7]	3.3	2.2	0.35	538	[466.9-619.9]	0.32	0.22	0.03	55	[40.6-74.5]	0.64	0.42	0.06
Trinidad and Tobago	79	[61.4-101.6]	0.46	0.3	0.04	3	[1.2-7.7]	0.17	0.09	0.02	35	[15.3-80.1]	5.3	7.4	1.01
Tunisia	50	[26.0-96.2]	3.8	5.2	0.66	64	[39.2-104.5]	0.38	0.39	0.07	24	[3.1-187.5]	0.58	0.82	0.16
Turkey	38	[7.5-192.3]	0.46	0.63	0.13	26	[13.3-50.9]	0.18	0.15	0.04	4	[0.80-20.2]	0.58	0.38	0.11
Turkmenistan	6	[1.7-21.5]	0.43	0.29	0.06	1700	[1389.8-2079.5]	3.5	2.8	0.5	240	[178.4-322.9]	4.1	3.5	0.76
Uganda	342	[267.0-438.0]	2.9	2.4	0.47	36983	[32588.3-41970.3]	0.96	0.82	0.12	813	[549.3-1203.4]	2	1.8	0.31
Ukraine	1089	[777.5-1525.3]	1.3	1.1	0.19	121	[59.0-248.3]	0.82	1.1	0.11	29	[20.2-41.5]	0.98	1.1	0.17
United Arab Emirates	38	[28.4-50.9]	0.63	0.67	0.09	23	[5.5-96.2]	0.25	0.44	0.07	278	[184.9-417.9]	1.2	3	0.63
United Kingdom	480	[351.2-656.0]	1	2.1	0.36	27	[6.8-107.2]	0.35	0.53	0.1	178	[135.2-234.4]	0.88	0.62	0.08

Table S4. Global Burden of NPC Disease by Sex and countries for mortality in 2020.

Population	Both sex					Female					Male				
	Number	Uncertainty interval	Crude Rate	ASR (World)	Cum. risk	Number	Uncertainty interval	Crude Rate	ASR (World)	Cum. risk	Number	Uncertainty interval	Crude Rate	ASR (World)	Cum. risk
Afghanistan	89	[37.6-210.9]	0.23	0.35	0.05	26	[5.8-115.8]	0.14	0.2	0.03	63	[21.9-181.2]	0.32	0.5	0.07
Albania	20	[10.8-37.0]	0.69	0.39	0.09	6	[2.0-18.3]	0.42	0.22	0.06	14	[6.7-29.3]	0.96	0.57	0.13
Algeria	807	[674.8-965.1]	1.8	1.9	0.32	241	[174.0-333.8]	1.1	1.1	0.2	566	[456.9-701.2]	2.6	2.7	0.45
Angola	68	[19.9-232.0]	0.21	0.43	0.06	22	[1.9-256.1]	0.13	0.26	0.03	46	[11.2-189.7]	0.28	0.62	0.09
Argentina	82	[63.4-106.1]	0.18	0.14	0.03	27	[17.2-42.4]	0.12	0.08	0.02	55	[40.2-75.2]	0.25	0.21	0.05
Armenia	9	[4.7-17.2]	0.3	0.22	0.02	3	[1.0-9.5]	0.19	0.12	0.01	6	[2.7-13.1]	0.43	0.35	0.04
Australia	86	[68.0-108.7]	0.34	0.19	0.04	24	[15.4-37.5]	0.19	0.1	0.02	62	[47.1-81.6]	0.49	0.29	0.07
Austria	19	[11.3-32.0]	0.21	0.11	0.02	3	[1.0-9.2]	0.07	0.03	0.01	16	[8.9-28.8]	0.36	0.19	0.04
Azerbaijan	39	[24.6-61.8]	0.38	0.34	0.05	14	[6.5-30.1]	0.28	0.25	0.04	25	[14.0-44.5]	0.49	0.45	0.06
Bahrain	4	[1.1-14.6]	0.24	0.36	0.1	1	[0.10-10.2]	0.17	0.17	0.01	3	[0.60-14.3]	0.27	0.55	0.18
Bangladesh	670	[282.8-1587.5]	0.41	0.45	0.06	193	[43.3-859.9]	0.24	0.25	0.04	477	[165.8-1372.0]	0.57	0.64	0.08
Belarus	24	[15.0-38.3]	0.25	0.14	0.03	3	[0.90-10.4]	0.06	0.04	0	21	[12.7-34.8]	0.48	0.3	0.07
Belgium	35	[23.9-51.3]	0.3	0.14	0.03	9	[4.1-20.0]	0.15	0.07	0.02	26	[16.8-40.2]	0.45	0.23	0.06
Benin	47	[13.5-163.2]	0.39	0.63	0.2	26	[5.0-134.9]	0.43	0.65	0.28	21	[3.1-140.6]	0.35	0.54	0.06
Bhutan	14	[11.0-17.8]	1.8	1.9	0.21	5	[3.3-7.6]	1.4	1.4	0.14	9	[6.7-12.0]	2.2	2.3	0.26
Bolivia, Plurinational State of	2	[0.30-14.8]	0.02	0.02	0	6	[2.0-17.8]	0.36	0.12	0.05	2	[0.10-33.8]	0.03	0.04	0.01
Bosnia and Herzegovina	15	[7.8-29.0]	0.46	0.2	0.07	1	[0.20-5.4]	0.08	0.07	0.01	9	[3.9-20.6]	0.56	0.29	0.09
Botswana	6	[2.5-14.5]	0.26	0.32	0.06	138	[102.6-185.7]	0.13	0.09	0.02	5	[1.8-14.2]	0.44	0.67	0.14
Brazil	471	[403.8-549.4]	0.22	0.18	0.04	7	[1.4-34.4]	3.3	3.4	1.13	333	[278.2-398.7]	0.32	0.27	0.05
Brunei Darussalam	24	[12.6-45.8]	5.5	5.7	1.2	17	[9.6-30.0]	0.48	0.15	0.05	17	[8.4-34.4]	7.5	8	1.25
Bulgaria	61	[45.5-81.7]	0.88	0.43	0.09	1	[0.10-13.6]	0.01	0.01	0	44	[31.3-61.9]	1.3	0.73	0.13

Burkina Faso	8	[1.6-39.7]	0.04	0.05	0	21	[1.6-272.6]	0.35	0.67	0.08	7	[0.90-53.4]	0.07	0.1	0.01
Burundi	55	[11.4-264.3]	0.46	1	0.23	1	[0.10-14.3]	0.36	0.36	0.03	34	[4.7-247.7]	0.58	1.5	0.45
Cabo Verde	1	[0.20-6.6]	0.18	0.17	0.01	55	[22.3-135.4]	0.64	0.71	0.11	160	[79.6-321.6]	2	2.8	0.55
Cambodia	215	[123.8-373.3]	1.3	1.6	0.29	101	[39.8-256.3]	0.76	1.2	0.15	174	[84.1-360.1]	1.3	2.3	0.32
Cameroon	275	[155.0-487.8]	1	1.7	0.23	43	[30.9-59.9]	0.23	0.1	0.03	113	[84.2-151.6]	0.6	0.31	0.08
Canada	156	[125.2-194.4]	0.41	0.2	0.05	13	[1.4-116.8]	0.53	0.84	0.09	19	[4.0-89.7]	0.79	1.6	0.2
Central African Republic	32	[9.0-113.7]	0.66	1.2	0.13	32	[3.6-287.4]	0.39	0.69	0.11	59	[12.5-278.6]	0.72	1.5	0.23
Chad	91	[25.6-323.2]	0.55	1.1	0.17	7	[3.1-16.0]	0.07	0.04	0.01	6	[2.9-12.4]	0.06	0.04	0.02
Chile	13	[7.5-22.4]	0.07	0.04	0.01	9692	[8716.9-10776.1]	1.4	0.87	0.15	25118	[23606.4-26726.4]	3.4	2.3	0.39
China	34810	[32994.5-36725.5]	2.4	1.6	0.27	25	[16.0-39.1]	0.1	0.07	0.02	55	[40.3-75.0]	0.22	0.19	0.05
Colombia	80	[62.0-103.2]	0.16	0.12	0.03	140	[15.6-1257.5]	0.31	0.5	0.07	220	[46.6-1038.9]	0.49	1	0.18
Congo, Democratic Republic of	360	[101.4-1278.6]	0.4	0.73	0.12	5	[0.60-44.9]	0.18	0.27	0.03	7	[1.5-33.1]	0.25	0.66	0.11
Congo, Republic of	12	[3.4-42.6]	0.22	0.44	0.07	3	[1.0-8.8]	0.12	0.11	0.01	11	[5.8-21.0]	0.43	0.42	0.04
Costa Rica	14	[8.0-24.4]	0.27	0.27	0.02	3	[1.0-9.5]	0.14	0.03	0.02	9	[4.1-19.7]	0.45	0.24	0.04
Croatia	12	[6.3-22.9]	0.29	0.13	0.03	24	[15.3-37.7]	0.42	0.23	0.05	95	[66.4-135.9]	1.7	0.93	0.2
Cuba	119	[89.7-157.9]	1.1	0.56	0.12	10	[4.9-20.2]	0.18	0.09	0.02	1	[0.20-5.3]	0.17	0.11	0.02
Cyprus	1	[0.30-3.9]	0.08	0.05	0.01	33	[13.1-83.0]	0.25	0.36	0.03	23	[14.7-35.9]	0.44	0.24	0.04
Czechia	33	[22.7-48.1]	0.31	0.16	0.03	4	[1.2-13.5]	0.14	0.05	0.02	34	[14.3-80.9]	0.26	0.41	0.04
C 魁 e d'Ivoire	67	[35.6-126.0]	0.25	0.39	0.04	4	[1.2-13.1]	0.07	0.07	0.02	8	[3.8-17.0]	0.28	0.13	0.05
Denmark	12	[6.3-22.9]	0.21	0.08	0.03	8	[3.4-18.6]	0.09	0.07	0.04	4	[0.50-29.1]	0.77	0.91	0.1
Djibouti	4	[0.80-19.2]	0.4	0.47	0.05	36	[16.0-81.0]	0.07	0.08	0.01	17	[8.9-32.3]	0.31	0.32	0.05
Dominican Republic	21	[11.9-37.0]	0.19	0.19	0.04	1	[0.10-9.0]	0.16	0.31	0.03	10	[4.9-20.5]	0.11	0.11	0.04
Ecuador	18	[10.4-31.1]	0.1	0.09	0.04	9	[0.70-116.8]	0.51	0.72	0.08	124	[74.4-206.7]	0.24	0.38	0.24
Egypt	160	[103.8-246.5]	0.16	0.2	0.1	206	[88.2-481.2]	0.36	0.53	0.13	7	[1.5-33.1]	0.9	1.8	0.22

Equatorial Guinea	8	[2.3-28.4]	0.57	1.1	0.12	2	[0.50-7.8]	0.07	0.02	0.01	13	[1.8-94.7]	0.73	1.3	0.2
Eritrea	22	[4.6-105.7]	0.62	1	0.13	54	[39.7-73.4]	0.16	0.08	0.02	4	[1.5-10.8]	0.64	0.41	0.05
Estonia	4	[1.6-9.8]	0.3	0.19	0.02	1	[0.10-11.7]	0.72	0.55	0.06	1	[0.10-9.2]	0.18	0.18	0.01
Eswatini	1	[0.70-1.5]	0.09	0.08	0.01	2	[0.10-29.4]	0.18	0.26	0.02	301	[142.6-635.4]	0.52	0.87	0.24
Ethiopia	507	[289.4-888.2]	0.44	0.69	0.18	5	[0.50-51.1]	0.2	0.27	0.02	2	[0.20-25.3]	0.44	0.42	0.05
Fiji	2	[0.30-13.0]	0.22	0.21	0.03	7	[3.2-15.3]	0.34	0.26	0.03	3	[1.1-8.4]	0.11	0.06	0.01
Finland	5	[2.2-11.4]	0.09	0.04	0.01	54	[40.5-72.0]	0.13	0.05	0.01	149	[112.6-197.2]	0.47	0.26	0.05
France	203	[165.0-249.8]	0.31	0.16	0.03	37	[4.6-296.9]	0.24	0.29	0.03	3	[0.30-30.9]	0.69	0.33	0.27
France, La R 閼 nion	3	[0.50-17.3]	0.34	0.13	0.1	23	[14.0-37.8]	0.43	0.17	0.04	1	[0.10-7.3]	0.58	0.28	0.05
France, Martinique	1	[0.20-4.5]	0.27	0.12	0.02	1	[0.20-4.8]	1.2	0.39	0.39	1	[0.10-13.9]	0.7	0.65	0.08
France, New Caledonia	1	[0.20-6.4]	0.35	0.31	0.04	4	[1.0-16.7]	0.04	0.05	0.02	3	[0.50-17.0]	2.1	1.7	0.23
French Polynesia	4	[1.0-16.5]	1.4	1.1	0.14	3	[0.20-40.7]	0.04	0.07	0.01	4	[0.30-58.8]	0.35	0.66	0.09
Gabon	6	[0.90-40.2]	0.27	0.44	0.05	4	[1.2-13.1]	0.07	0.09	0.02	16	[1.1-241.5]	0.62	0.97	0.15
Gaza Strip and West Bank	21	[3.6-122.7]	0.41	0.61	0.08	6	[0.70-53.5]	0.12	0.15	0.02	13	[6.8-24.7]	0.68	0.48	0.1
Georgia	20	[12.2-32.8]	0.5	0.35	0.05	19	[11.8-30.7]	0.38	0.22	0.03	131	[99.1-173.2]	0.32	0.15	0.03
Germany	185	[151.4-226.0]	0.22	0.1	0.02	1437	[1129.6-1828.0]	0.22	0.21	0.05	79	[18.1-344.5]	0.5	0.61	0.06
Ghana	116	[34.9-386.1]	0.37	0.45	0.04	2755	[2208.3-3437.0]	2	1.9	0.32	69	[52.4-90.9]	1.3	0.64	0.14
Greece	92	[72.3-117.0]	0.88	0.39	0.09	58	[39.3-85.6]	0.14	0.14	0.06	5	[1.9-13.2]	5.9	4.9	0.57
Guam	6	[2.6-13.7]	3.6	2.7	0.53	24	[14.6-39.4]	0.12	0.17	0.04	8	[3.7-17.4]	0.09	0.15	0.03
Guatemala	12	[6.0-23.9]	0.07	0.1	0.02	4	[1.3-12.4]	0.16	0.07	0.03	3	[0.40-22.9]	0.05	0.15	0.03
Guinea	6	[1.2-29.8]	0.05	0.09	0.02	2	[0.50-8.4]	0.05	0.03	0.01	15	[7.9-28.5]	0.27	0.36	0.06
Haiti	19	[10.8-33.5]	0.17	0.22	0.04	61	[46.2-80.5]	0.2	0.09	0.02	16	[1.8-142.8]	0.32	0.45	0.06
Honduras	22	[4.7-103.4]	0.22	0.29	0.04	6	[2.2-16.5]	0.4	0.3	0.07	39	[28.2-53.9]	0.85	0.5	0.08
Hungary	58	[44.3-75.9]	0.6	0.34	0.05	116	[89.3-150.7]	0.18	0.05	0.01	2711	[2302.3-3192.2]	0.38	0.39	0.08

India	4148	[3623.5-4748.4]	0.3	0.3	0.06	14	[6.2-31.5]	0.28	0.34	0.06	10644	[9159.1-12369.6]	7.7	7.7	1.33
Indonesia	13399	[11833.0-15172.2]	4.9	4.7	0.79	27	[17.2-42.4]	0.28	0.24	0.03	119	[90.6-156.3]	0.28	0.27	0.06
Iran, Islamic Republic of	177	[141.5-221.3]	0.21	0.21	0.06	191	[102.5-355.8]	0.71	1.3	0.26	87	[66.2-114.3]	0.43	0.69	0.11
Iraq	111	[87.4-141.0]	0.28	0.42	0.07	59	[11.3-308.9]	0.45	0.31	0.05	9	[4.4-18.6]	0.37	0.22	0.05
Ireland	13	[7.0-24.0]	0.26	0.15	0.04	39	[27.3-55.8]	0.15	0.07	0.02	16	[7.4-34.6]	0.37	0.3	0.07
Israel	18	[9.1-35.7]	0.21	0.16	0.03	5	[1.4-17.9]	0.3	0.32	0.05	212	[152.8-294.2]	0.72	0.35	0.07
Italy	273	[221.2-336.9]	0.45	0.22	0.04	7	[3.1-16.0]	0.21	0.21	0.07	8	[3.6-17.7]	0.54	0.46	0.11
Jamaica	14	[7.5-26.2]	0.47	0.37	0.09	63	[25.6-155.1]	1.7	2.2	0.34	238	[200.0-283.3]	0.39	0.16	0.04
Japan	354	[306.2-409.2]	0.28	0.1	0.02	7	[2.9-17.0]	0.21	0.2	0.03	40	[24.1-66.5]	0.77	1	0.16
Jordan	54	[35.1-83.1]	0.53	0.67	0.11	3	[0.20-40.7]	0.12	0.2	0.03	55	[40.9-74.0]	0.6	0.62	0.09
Kazakhstan	82	[64.0-105.1]	0.44	0.4	0.05	27	[10.7-68.2]	0.79	0.92	0.12	430	[299.4-617.6]	1.6	3.1	0.47
Kenya	621	[454.1-849.1]	1.2	2.1	0.36	1	[0.20-4.3]	0.07	0.01	0.01	149	[50.9-436.3]	1.2	0.97	0.19
Korea, Democratic Republic of	208	[84.5-512.2]	0.81	0.6	0.1	29	[2.2-376.5]	0.21	0.31	0.03	144	[113.4-182.9]	0.56	0.31	0.07
Korea, Republic of	183	[149.8-223.6]	0.36	0.18	0.04	18	[1.5-216.9]	0.19	0.3	0.03	16	[7.3-34.9]	0.61	0.61	0.09
Kuwait	21	[10.8-40.8]	0.49	0.52	0.08	319	[276.0-368.7]	2	1.9	0.31	17	[9.6-30.1]	0.53	0.71	0.15
Kyrgyzstan	24	[15.0-38.4]	0.37	0.43	0.1	12	[1.3-111.7]	0.12	0.25	0.03	123	[61.2-247.2]	3.4	4.7	0.83
Lao People's Democratic Republic	186	[107.1-323.0]	2.6	3.4	0.56	2	[0.10-27.2]	0.09	0.09	0.01	6	[2.4-15.2]	0.69	0.39	0.07
Latvia	6	[2.7-13.2]	0.32	0.16	0.03	30	[20.1-44.8]	0.05	0.04	0.01	13	[6.9-24.4]	0.38	0.35	0.07
Lebanon	20	[12.0-33.4]	0.29	0.27	0.05	2	[0.50-8.0]	0.12	0.16	0.02	1	[0.10-9.2]	0.09	0.07	0.01
Lesotho	1	[0.30-3.8]	0.05	0.04	0	172	[110.2-268.6]	0.93	0.84	0.13	4	[0.50-30.5]	0.16	0.32	0.06
Liberia	7	[1.4-34.8]	0.14	0.26	0.04	11	[0.70-161.8]	0.07	0.08	0.01	47	[23.0-96.2]	1.4	1.6	0.3
Libya	74	[42.0-130.4]	1.1	1.3	0.2	464	[188.4-1142.6]	1.6	1.5	0.2	9	[4.6-17.4]	0.71	0.43	0.07
Lithuania	10	[5.4-18.4]	0.37	0.19	0.03	3	[0.80-11.8]	0.23	0.33	0.04	34	[4.7-247.7]	0.25	0.42	0.1
Madagascar	63	[13.1-302.8]	0.23	0.36	0.06	4	[0.90-17.8]	0.03	0.03	0	27	[4.0-180.7]	0.29	0.33	0.02

Malawi	45	[9.9-203.9]	0.24	0.32	0.03	4	[1.2-13.2]	0.16	0.1	0.02	1131	[1039.5-1230.6]	6.8	6.5	1.04
Malaysia	1450	[1348.1-1559.7]	4.5	4.3	0.68	5	[2.0-12.7]	0.15	0.16	0.02	17	[6.1-47.1]	5	7.7	1.18
Maldives	17	[8.4-34.3]	3.1	4.1	0.62	7	[4.6-10.6]	0.06	0.05	0	12	[1.8-82.3]	0.12	0.28	0.03
Mali	24	[5.6-103.1]	0.12	0.26	0.03	297	[106.2-830.7]	0.29	0.46	0.08	2	[0.50-7.4]	0.9	0.42	0.07
Malta	2	[0.60-6.2]	0.45	0.2	0.03	1	[0.20-5.1]	0.1	0.06	0.01	5	[0.70-38.2]	0.21	0.3	0.03
Mauritania	7	[1.4-34.8]	0.15	0.19	0.02	2	[0.40-10.3]	0.12	0.21	0.02	7	[2.4-20.0]	1.1	0.75	0.17
Mauritius	7	[2.6-18.8]	0.55	0.36	0.07	187	[71.3-490.6]	0.17	0.21	0.05	77	[50.4-117.6]	0.12	0.12	0.03
Mexico	107	[80.1-143.0]	0.08	0.08	0.02	1	[0.20-4.5]	0.05	0.04	0	7	[2.9-17.2]	0.43	0.53	0.08
Mongolia	9	[4.2-19.1]	0.27	0.33	0.05	1	[0.10-13.9]	0.02	0.03	0	1	[0.10-7.7]	0.32	0.17	0.03
Montenegro	1	[0.20-4.6]	0.16	0.08	0.01	1	[0.10-7.8]	0.03	0.02	0.02	365	[261.8-508.9]	2	1.9	0.28
Morocco	537	[411.4-700.9]	1.5	1.4	0.21	20	[11.4-35.1]	0.12	0.1	0.03	8	[0.50-117.7]	0.05	0.05	0
Mozambique	19	[2.8-127.2]	0.06	0.07	0	490	[349.1-687.8]	0.9	0.95	0.23	1019	[507.0-2048.1]	3.9	4	0.66
Myanmar	1483	[854.0-2575.2]	2.7	2.6	0.39	52	[38.0-71.2]	0.27	0.11	0.03	5	[1.7-14.4]	0.41	0.67	0.07
Namibia	8	[3.5-18.5]	0.31	0.48	0.05	14	[7.7-25.3]	0.26	0.11	0.02	18	[7.9-40.8]	0.13	0.16	0.02
Nepal	22	[10.7-45.1]	0.08	0.09	0.01	2	[0.50-8.3]	0.13	0.04	0.01	11	[5.4-22.3]	0.46	0.3	0.06
New Zealand	15	[8.1-27.6]	0.31	0.19	0.04	10	[4.9-20.2]	0.48	0.22	0.08	10	[4.6-21.6]	0.31	0.4	0.1
Nicaragua	15	[8.3-27.2]	0.23	0.26	0.05	50	[36.9-67.8]	0.51	0.28	0.05	15	[11.3-20.0]	0.12	0.29	0.05
Niger	22	[17.4-27.9]	0.09	0.17	0.02	96	[35.4-260.0]	0.12	0.08	0.01	629	[312.1-1267.8]	0.6	1.1	0.18
Nigeria	926	[518.9-1652.5]	0.45	0.75	0.13	9	[0.60-132.4]	0.14	0.22	0.02	5	[1.7-15.0]	0.48	0.35	0.1
North Macedonia	6	[2.4-15.0]	0.29	0.19	0.05	1	[0.10-10.1]	1	1.3	0.1	5	[2.0-12.3]	0.18	0.11	0.02
Norway	5	[2.2-11.5]	0.09	0.05	0.01	45	[29.6-68.4]	0.31	0.34	0.05	13	[3.5-47.7]	0.39	0.47	0.05
Oman	15	[5.4-41.6]	0.29	0.38	0.04	8	[0.60-108.6]	0.09	0.14	0.02	503	[259.0-976.9]	0.44	0.55	0.07
Pakistan	690	[399.4-1192.1]	0.31	0.38	0.06	15	[8.1-27.9]	0.34	0.16	0.03	10	[4.9-20.4]	0.46	0.42	0.11
Panama	11	[5.7-21.1]	0.25	0.22	0.05	4	[1.8-9.0]	0.1	0.14	0.01	10	[0.70-138.8]	0.22	0.31	0.03

Papua New Guinea	11	[1.7-70.6]	0.12	0.17	0.02	44	[29.8-65.0]	1.6	0.88	0.18	7	[3.0-16.4]	0.19	0.23	0.03
Paraguay	8	[3.6-17.7]	0.11	0.13	0.03	6	[2.4-14.9]	0.21	0.09	0.03	25	[15.2-41.0]	0.15	0.14	0.03
Peru	45	[31.0-65.3]	0.14	0.12	0.03	36	[2.8-467.3]	0.45	0.82	0.18	1457	[1061.9-1999.1]	2.6	3.4	0.77
Philippines	1947	[1544.9-2453.8]	1.8	2.1	0.45	46	[29.6-71.4]	0.15	0.15	0.04	101	[72.0-141.6]	0.55	0.32	0.06
Poland	153	[121.5-192.7]	0.4	0.21	0.04	33	[2.5-428.4]	0.59	0.94	0.2	50	[36.6-68.4]	1	0.56	0.1
Portugal	64	[48.5-84.4]	0.63	0.32	0.06	56	[41.7-75.3]	0.24	0.11	0.02	13	[7.2-23.6]	0.96	0.41	0.12
Puerto Rico	15	[8.6-26.1]	0.52	0.2	0.06	9	[3.9-21.0]	0.08	0.08	0.01	5	[0.30-75.5]	0.23	0.36	0.05
Qatar	5	[0.70-35.7]	0.17	0.28	0.04	130	[91.9-183.9]	0.59	0.88	0.27	28	[18.2-43.1]	1.4	1	0.19
Republic of Moldova	38	[26.3-54.9]	0.94	0.59	0.13	1	[0.30-3.5]	0.02	0	0	137	[109.1-172.0]	1.5	0.91	0.14
Romania	187	[155.7-224.6]	0.97	0.58	0.09	3	[1.0-8.8]	0.07	0.04	0.01	263	[142.3-486.1]	0.39	0.27	0.05
Russian Federation	359	[212.8-605.6]	0.25	0.15	0.03	24	[2.3-245.3]	0.27	0.3	0.04	18	[2.5-131.1]	0.28	0.73	0.49
Rwanda	27	[5.5-133.4]	0.21	0.4	0.19	7	[3.1-15.7]	0.15	0.19	0.05	3	[0.30-30.3]	2.9	3.6	1.6
Samoa	4	[0.80-20.5]	2	2.3	0.7	102	[42.6-244.0]	0.34	0.58	0.08	223	[173.2-287.1]	1.1	1	0.15
Saudi Arabia	268	[215.9-332.7]	0.77	0.77	0.11	437	[342.6-557.4]	1.2	0.7	0.15	12	[1.6-91.6]	0.15	0.28	0.04
Senegal	20	[4.0-99.4]	0.12	0.2	0.02	13	[7.2-23.5]	0.15	0.08	0.02	32	[21.1-48.6]	0.75	0.46	0.08
Serbia	47	[33.2-66.5]	0.54	0.3	0.05	10	[4.1-24.6]	1.5	2.3	0.28	7	[3.5-14.0]	0.18	0.29	0.03
Sierra Leone	11	[6.5-18.6]	0.14	0.21	0.02	10	[0.70-135.8]	0.24	0.34	0.1	248	[206.5-297.8]	8.1	4.7	0.9
Singapore	292	[247.4-344.6]	5	2.9	0.53	1	[0.20-5.8]	0.14	0.08	0.01	22	[13.7-35.3]	0.83	0.52	0.08
Slovakia	28	[18.4-42.6]	0.51	0.29	0.06	63	[38.5-103.2]	1.1	0.83	0.17	1	[0.20-6.0]	0.1	0.06	0.01
Slovenia	1	[0.20-4.0]	0.05	0.03	0	157	[127.3-193.6]	0.37	0.29	0.06	70	[9.6-509.9]	0.88	1.7	0.37
Somalia	106	[22.1-509.4]	0.67	1.3	0.27	7	[1.8-27.0]	0.23	0.23	0.03	83	[60.9-113.1]	0.28	0.36	0.09
South Africa	129	[100.2-166.1]	0.22	0.25	0.06	145	[82.4-255.2]	0.63	1.2	0.18	59	[8.1-429.8]	1.1	1.9	0.41
South Sudan	92	[19.1-442.1]	0.82	1.4	0.29	45	[32.5-62.3]	0.19	0.13	0.02	156	[125.9-193.4]	0.68	0.35	0.07
Spain	212	[178.0-252.5]	0.45	0.23	0.04	6	[1.2-31.0]	0.2	0.52	0.09	29	[18.3-46.1]	0.28	0.22	0.03

Sri Lanka	38	[25.3-57.0]	0.18	0.15	0.02	48	[35.0-65.9]	0.14	0.07	0.02	184	[137.7-245.9]	0.84	1.3	0.19
Sudan	314	[251.4-392.3]	0.72	1.1	0.24	271	[220.7-332.7]	0.16	0.08	0.02	5	[1.6-15.5]	1.7	1.5	0.45
Suriname	5	[1.8-13.5]	0.85	0.7	0.19	1	[0.20-4.0]	0.06	0.01	0.01	6	[2.8-12.9]	0.12	0.06	0.01
Sweden	7	[3.6-13.5]	0.07	0.03	0.01	39	[26.7-57.0]	0.23	0.24	0.05	14	[7.7-25.4]	0.33	0.15	0.04
Switzerland	17	[10.1-28.7]	0.2	0.09	0.02	18	[10.3-31.6]	0.12	0.1	0.03	59	[3.9-890.5]	0.67	0.85	0.14
Syrian Arab Republic	83	[14.2-485.1]	0.47	0.56	0.09	1054	[844.4-1315.7]	2.2	1.7	0.37	6	[2.5-14.4]	0.12	0.18	0.02
Tajikistan	13	[7.2-23.5]	0.14	0.19	0.04	21914	[18292.5-26252.5]	0.57	0.47	0.08	115	[50.2-263.7]	0.39	0.77	0.16
Tanzania, United Republic of	217	[119.0-395.9]	0.36	0.66	0.11	93	[41.6-208.1]	0.63	0.87	0.09	1045	[851.1-1283.1]	3.1	2	0.4
Thailand	1482	[1266.8-1733.8]	2.1	1.3	0.27	15	[2.7-82.1]	0.16	0.34	0.06	30	[20.3-44.3]	0.35	0.16	0.05
The Netherlands	43	[31.0-59.6]	0.25	0.11	0.03	18	[3.6-91.1]	0.23	0.35	0.08	25	[12.4-50.2]	3.8	5.6	0.86
Timor-Leste	35	[20.2-60.8]	2.7	3.9	0.56	1	[0.50-2.0]	0.23	0.18	0.02	17	[2.2-129.8]	0.41	0.65	0.15

Table S5. Nasopharyngeal Cancer Disease Burden in Relation to HDI in Various Countries Globally

Population	Human Development Index	Incidence - ASR (World)	Mortality - ASR (World)
Afghanistan	0.5	0.47	0.35
Albania	0.79	0.84	0.39
Algeria	0.76	3.2	1.9
Angola	0.57	0.57	0.43
Argentina	0.83	0.26	0.14
Armenia	0.76	0.3	0.22
Australia	0.94	0.41	0.19
Austria	0.91	0.28	0.11
Azerbaijan	754	0.6	0.34
Bahamas	0.81	0	0
Bahrain	0.84	0.59	0.36
Bangladesh	0.61	0.58	0.45
Barbados	0.81	0	0
Belarus	0.82	0.24	0.14
Belgium	0.92	0.44	0.14
Belize	0.72	0	0
Benin	0.52	0.83	0.63
Bhutan	0.62	2.1	1.9
Bolivia, Plurinational State of	0.7	0.03	0.02
Bosnia and Herzegovina	0.77	0.33	0.2
Botswana	0.73	0.43	0.32
Brazil	0.76	0.33	0.18

Brunei Darussalam	0.85	9.9	5.7
Bulgaria	0.82	0.72	0.43
Burkina Faso	0.43	0.07	0.05
Burundi	0.42	1.2	1
Cabo Verde	0.65	0.49	0.17
Cambodia	0.58	2.1	1.6
Cameroon	0.56	2.3	1.7
Canada	0.92	0.48	0.2
Central African Republic	0.38	1.4	1.2
Chad	0.4	1.3	1.1
Chile	0.85	0.08	0.04
China	0.76	3	1.6
Colombia	0.76	0.26	0.12
Comoros	0.54	0	0
Congo, Democratic Republic of	0.46	0.94	0.73
Congo, Republic of	0.61	0.55	0.44
Costa Rica	0.79	0.39	0.27
Croatia	0.84	0.37	0.13
Cuba	0.78	0.92	0.56
Cyprus	0.87	0.32	0.05
Czechia	0.89	0.29	0.16
Côte d'Ivoire	0.52	0.51	0.39
Denmark	0.93	0.26	0.08
Djibouti	0.5	0.66	0.47

Dominican Republic	0.75	0.33	0.19
Ecuador	0.76	0.16	0.09
Egypt	0.7	0.3	0.2
El Salvador	0.67	0	0
Equatorial Guinea	0.59	1.3	1.1
Eritrea	0.43	1.2	1
Estonia	0.88	0.35	0.19
Eswatini	0.61	0.08	0.08
Ethiopia	0.47	0.91	0.69
Fiji	0.72	0.29	0.21
Finland	0.93	0.14	0.04
France	0.89	0.6	0.16
France, Guadeloupe	891	0.16	0
France, La Réunion	891	0.23	0.13
France, Martinique	891	0.27	0.12
France, New Caledonia	891	0.83	0.31
French Guiana	891	0	0
French Polynesia	891	1.3	1.1
Gabon	0.7	0.61	0.44
Gaza Strip and West Bank	0.69	0.86	0.61
Georgia	0.79	0.47	0.35
Germany	0.94	0.28	0.1
Ghana	0.6	0.64	0.45
Greece	0.87	1	0.39

Guam	840	3.1	2.7
Guatemala	0.65	0.13	0.1
Guinea	0.47	0.13	0.09
Guinea-Bissau	0.46	0	0
Guyana	0.67	0.13	0
Haiti	0.5	0.29	0.22
Honduras	0.62	0.42	0.29
Hungary	0.85	0.6	0.34
Iceland	0.94	0	0
India	0.65	0.42	0.3
Indonesia	0.71	6.8	4.7
Iran, Islamic Republic of	0.8	0.36	0.21
Iraq	0.69	0.58	0.42
Ireland	0.94	0.33	0.15
Israel	0.91	0.46	0.16
Italy	0.88	0.64	0.22
Jamaica	0.73	0.62	0.37
Japan	0.92	0.35	0.1
Jordan	0.72	1.1	0.67
Kazakhstan	0.82	0.57	0.4
Kenya	0.58	2.8	2.1
Korea, Democratic Republic of	500	1.1	0.6
Korea, Republic of	0.91	0.48	0.18
Kuwait	0.81	0.76	0.52

Kyrgyzstan	0.67	0.54	0.43
Lao People's Democratic Republic	0.6	4.4	3.4
Latvia	0.85	0.34	0.16
Lebanon	0.73	0.46	0.27
Lesotho	0.52	0.04	0.04
Liberia	0.47	0.33	0.26
Libya	0.71	1.9	1.3
Lithuania	0.87	0.25	0.19
Luxembourg	0.91	0.21	0
Madagascar	0.52	0.48	0.36
Malawi	0.49	0.41	0.32
Malaysia	0.8	6.4	4.3
Maldives	0.72	7.4	4.1
Mali	0.43	0.32	0.26
Malta	0.89	1	0.2
Mauritania	0.53	0.26	0.19
Mauritius	0.8	0.36	0.36
Mexico	0.77	0.14	0.08
Mongolia	735	0.58	0.33
Montenegro	0.82	0.16	0.08
Morocco	0.68	2.2	1.4
Mozambique	0.45	0.09	0.07
Myanmar	0.58	3.7	2.6
Namibia	645	0.66	0.48

Nepal	0.58	0.13	0.09
New Zealand	0.92	0.47	0.19
Nicaragua	0.65	0.4	0.26
Niger	0.38	0.22	0.17
Nigeria	534	1	0.75
North Macedonia	0.76	0.38	0.19
Norway	0.95	0.16	0.05
Oman	0.83	0.56	0.38
Pakistan	0.56	0.46	0.38
Panama	0.8	0.35	0.22
Papua New Guinea	0.54	0.24	0.17
Paraguay	0.72	0.22	0.13
Peru	0.76	0.22	0.12
Philippines	0.71	3	2.1
Poland	0.87	0.44	0.21
Portugal	0.85	0.7	0.32
Puerto Rico	880	0.43	0.2
Qatar	0.85	0.33	0.28
Republic of Moldova	0.71	0.81	0.59
Romania	0.82	1.4	0.58
Russian Federation	0.82	0.28	0.15
Rwanda	0.54	0.54	0.4
Saint Lucia	0.75	0	0
Samoa	0.71	2.8	2.3

Sao Tome and Principe	0.61	0	0
Saudi Arabia	0.86	1.4	0.77
Senegal	0.51	0.26	0.2
Serbia	0.8	0.6	0.3
Sierra Leone	0.44	0.26	0.21
Singapore	0.94	4.6	2.9
Slovakia	0.86	0.42	0.29
Slovenia	0.9	0.25	0.03
Solomon Islands	0.56	0	0
Somalia	350	1.5	1.3
South Africa	0.71	0.34	0.25
South Sudan	0.41	1.7	1.4
Spain	0.89	0.63	0.23
Sri Lanka	0.78	0.24	0.15
Sudan	0.51	1.6	1.1
Suriname	0.72	0.62	0.7
Sweden	0.94	0.22	0.03
Switzerland	0.95	0.38	0.09
Syrian Arab Republic	0.55	0.71	0.56
Tajikistan	0.66	0.23	0.19
Tanzania, United Republic of	0.53	0.88	0.66
Thailand	0.77	2.2	1.3
The Netherlands	0.93	0.3	0.11
The Republic of the Gambia	0.47	0	0

Timor-Leste	0.63	5.2	3.9
Togo	0.51	0.63	0.49
Trinidad and Tobago	0.8	0.29	0.19
Tunisia	0.74	2.4	1.5
Turkey	0.81	1.1	0.61
Turkmenistan	710	0.67	0.49
Uganda	0.53	2.1	1.7
Ukraine	0.75	0.4	0.23
United Arab Emirates	0.87	0.51	0.37
United Kingdom	0.92	0.28	0.14
United States of America	0.92	0.4	0.16
Uruguay	0.81	0.35	0.1
Uzbekistan	0.71	0.55	0.34
Vanuatu	0.6	0	0
Venezuela, Bolivarian Republic of	0.73	0.35	0.21
Viet Nam	0.69	5.3	3.3
Yemen	0.46	2	1.7
Zambia	0.59	0.54	0.42
Zimbabwe	0.56	0.6	0.42

Table S6. Projected global burden of NPC disease by continent between 2020 and 2040

Population	Death male					female					Incidence male					female				
	Cases base in 2020	Yea r	Predicti on	Risk change	Risk percentage (%)	Cases base in 2020	Yea r	Predicti on	Risk change	Risk percentage (%)	Cases base in 2020	Yea r	Predicti on	Risk change	Risk percentage (%)	Cases base in 2020	Yea r	Predicti on	Risk change	Risk percentage (%)
Africa	4278	2020	4278	0	0	2322	2020	2322	0	0	6527	2020	6527	0	0	3514	2020	3514	0	0
		2025	4830	750	17.5316	2322	2025	2607	392	16.882	6527	2025	7332	1106	16.945	3514	2025	3922	569	16.1924
		2030	5458	1636	38.2422	2322	2030	2925	848	36.5202	6527	2030	8228	2389	36.6018	3514	2030	4365	1216	34.6044
Latin America and Caribbean	4278	2035	6158	2669	62.389	2322	2035	3274	1371	59.0439	6527	2035	9201	3852	59.0164	3514	2035	4835	1940	55.2077
		2040	6925	3853	90.0655	2322	2040	3649	1963	84.5392	6527	2040	10243	5501	84.2807	3514	2040	5331	2746	78.1446
	841	2020	841	0	0	335	2020	335	0	0	1472	2020	1472	0	0	573	2020	573	0	0
		2025	917	114	13.5553	335	2025	369	49	14.6269	1472	2025	1592	186	12.6359	573	2025	624	77	13.438
	841	2030	995	237	28.1807	335	2030	404	103	30.7463	1472	2030	1710	381	25.8832	573	2030	676	160	27.9232
		2035	1070	366	43.5196	335	2035	439	160	47.7612	1472	2035	1821	582	39.538	573	2035	726	246	42.9319
	841	2040	1139	497	59.0963	335	2040	471	218	65.0746	1472	2040	1920	783	53.1929	573	2040	769	330	57.5916

Northern America	757	202	0	757	0	0	314	202	0	314	0	0	1555	202	0	1555	0	0	622	202	0	622	0	0
	757	202	5	789	65	8.5865	314	202	5	327	27	8.5987	1555	202	5	1566	75	4.8232	622	202	5	626	30	4.8232
	757	203	0	817	129	17.041	314	203	0	340	54	17.1975	1555	203	0	1567	143	9.1961	622	203	0	627	57	9.164
	757	203	5	840	190	25.0991	314	203	5	352	83	26.4331	1555	203	5	1567	212	13.6334	622	203	5	625	83	13.3441
	757	204	0	855	247	32.6288	314	204	0	358	107	34.0764	1555	204	0	1561	279	17.9421	622	204	0	620	106	17.0418
	Europe	1897	202	0	1897	0	0	689	202	0	689	0	0	3795	202	0	3795	0	0	1409	202	0	1409	0
Europe	1897	202	5	1917	99	5.2188	689	202	5	688	27	3.9187	3795	202	5	3759	118	3.1094	1409	202	5	1381	28	1.9872
Europe	1897	203	0	1922	185	9.7522	689	203	0	683	52	7.5472	3795	203	0	3690	204	5.3755	1409	203	0	1346	49	3.4776
Europe	1897	203	5	1908	255	13.4423	689	203	5	676	74	10.7402	3795	203	5	3589	254	6.693	1409	203	5	1305	64	4.5422
Europe	1897	204	0	1875	305	16.078	689	204	0	664	91	13.2075	3795	204	0	3458	266	7.0092	1409	204	0	1259	69	4.8971
Oceania	108	202	0	108	0	0	33	202	0	33	0	0	180	202	0	180	0	0	48	202	0	48	0	0
	108	202	5	114	11	10.1852	33	202	5	35	3	9.0909	180	202	5	187	15	8.3333	48	202	5	50	4	8.3333
	108	203	0	120	23	21.2963	33	203	0	38	8	24.2424	180	203	0	193	29	16.1111	48	203	0	52	8	16.6667

Asia	108	203 5	126	34	31.4815	33	203 5	40	12	36.3636	180	203 5	198	43	23.8889	48	203 5	54	13	27.0833
		204					204					204					204			
	108	0	131	46	42.5926	33	0	42	17	51.5152	180	0	203	58	32.2222	48	0	55	16	33.3333
		202					202					202					202			
	50213	0	50213	0	0	18221	0	18221	0	0	82842	0	82842	0	0	30817	0	30817	0	0
		202					202					202					202			
	50213	5	54162	6168	12.2837	18221	5	19716	2302	12.6338	82842	5	87569	8315	10.0372	30817	5	32516	3031	9.8355
		203					203					203					203			
	50213	0	57548	12148	24.1929	18221	0	21052	4592	25.2017	82842	0	91249	16039	19.361	30817	0	33868	5884	19.0934
		203					203					203					203			
	50213	5	60166	17656	35.1622	18221	5	22146	6761	37.1055	82842	5	93809	22978	27.7371	30817	5	34845	8490	27.5497
		204					204					204					204			
	50213	0	61904	22479	44.7673	18221	0	22889	8657	47.5111	82842	0	95144	28882	34.864	30817	0	35335	10676	34.6432