

Supplementary Table 1

Population Risk Factors for COVID-19 Mortality in 93 Countries

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Country	High case fatality countries	High CMR countries	Confirmed cases	Deaths	Case-Fatality %	COVID-19 deaths per 100,000	Lung cancer	IHD	HTN	COPD prevalence per 100,000	Asthma	Alzheimer's disease prevalence per 100,000	Depression prevalence per 100,000	Alcoholism	Diabetes	CKD	GDP per capita	Age 65 or more percent	Pop density	Urban pop	Unemployment	SDI
Afghanistan	0	0	28833	581	2	1.56	4	1114.6	120	2469.1	5520.3	133	2304.3	518.6	4931.9	4830.2	520.9	960879	56.9	10.8		0.3
Albania	0	0	1962	44	2.2	1.54	37.1	3019	167.9	6006.4	2997.7	915.7	1474.7	1898.2	5786.6	9833.7	5268.8	393976	104.6			0.9
Andorra	0	1	855	52	6.1	67.53	80.1	2400.1	154.2	5819.3	6255.7	1115.1	2433.2	1217.9	8596.3	8123.3	42029.8		163.8			0.7
Argentina	0	0	42785	1011	2.4	2.27	25.8	1434.8	256.5	4076.1	4390.7	689.2	2146.1	1741.5	7262.9	8677.1	11683.9	4946805	16.3	43	9.2	0.7
Armenia	0	0	20268	350	1.7	11.86	40.8	2988.9	311.4	5253.2	3592	834	1776.6	2089.1	11168.9	14347.5	4212.1	332187	103.7	36.6		0.7
Australia	0	0	7474	102	1.4	0.41	122.6	2576.5	156.1	4734.5	9413.8	1014.4	3052.5	1405.8	5723.8	10323.8	57373.7	3912924	3.2	60.9	5.3	0.7
Austria	0	0	17341	690	4	7.8	119.3	2868.8	430.3	9237.5	5100.4	1445.9	1910	1795.1	8973.7	9747.8	51462	1681076	107.2	21.5	4.8	0.9
Azerbaijan	0	0	12729	154	1.2	1.55	20.2	1974.4	129	3677.2	3251.3	383.8	1405.2	2453	8561.8	10774.6	4721.2	615946	120.3	23	4.9	0.9
Bahrain	0	0	21764	63	0.3	4.01	6.5	1888.8	130	3382.9	4597.9	199.5	3217.3	862.9	10805	8980.8	24050.8	38080	2017.3			0.7
Belarus	0	0	58505	346	0.6	3.65	48.7	4657.8	147.5	5910.8	4131.7	1141.4	3080.8	6118.3	7038.8	16422.6	6289.9	1408120	46.7	21.1	4.8	0.5
Belgium	1	1	60550	9696	16	84.89	100.1	2924.1	160.9	8171.2	4380.2	1434.2	2862.7	1375.5	10020.3	9735	47518.6	2146063	377.2	27	5.9	0.5
Bolivia	0	0	24388	773	3.2	6.81	8.7	955.7	104.4	2017.9	6438.1	322.8	1919.4	1503.4	5586.9	6185.4	3548.6	816512	10.5	41.3	3.5	0.6
Bosnia and Herzegovina	0	0	3273	169	5.2	5.08	66.1	4137.5	253.5	8635.9	4485.5	1099.3	1707.5	3054.3	12514.6	12568.4	6065.7	547462	64.9		18.4	0.6
Brazil	0	0	1083341	50591	4.7	24.15	15.9	1685.7	217.6	4198	4136.3	599.9	2375.5	2851.5	4418.6	7920.8	8920.8	18690609	25.1	41.9	12.3	0.8
Bulgaria	0	0	3905	199	5.1	2.83	60.4	5322	893.2	10091.5	3780.6	1549.1	2043.6	1866.7	9155.6	13915.1	9272.6	1476625	64.7	18.1	5.2	0.8
Burkina Faso	0	0	903	53	5.9	0.27	3.1	658.6	78.1	1653.1	3809	139.7	1794.2	769.4	2907.2	6065.3	715.1	475416	72.2	12.8		0.7
Cameroon	0	0	11892	303	2.5	1.2	4.2	613.4	66.1	1684.3	3232.7	124	1888.6	829	2956.2	6272.5	1533.7	688120	53.3	28		0.8
Canada	0	0	103078	8482	8.2	22.89	116.9	2335.5	163.9	5073.9	5079.3	1051.5	2060.3	1492.1	7727.6	9637.4	46233	6385985	4.1	45.9	5.8	0.7
Chile	0	0	242355	4479	1.8	23.91	21	1736.8	350.8	3809.4	4548.8	712.4	2611.9	2422.8	7885.6	8756.9	15923.4	2159435	25.2	35.7	7.2	0.7
China	0	0	84572	4639	5.5	0.33	90	1612.8	377.8	4710.7	2196.1	825.4	2030	1406.9	6336.1	9368.2	9770.8	1.52E+08	148.3	27.9	3.8	0.6
Colombia	0	0	68836	2353	3.4	4.74	11.3	1510	375.3	3130.5	3799.2	595.3	1473.6	1720.8	4140.1	10178.2	6667.8	4209239	44.7	43.9	9.1	0.9
Cote d'Ivoire	0	0	7492	54	0.7	0.22	2.5	680.9	78.5	1587	3621.8	118.8	1626.1	854	3366	6579.8	1715.5	716715	78.8	19.6		0.7

Croatia	0	0	2317	107	4.6	2.62	115.3	4968.8	484.1	9084.3	4224.4	1506.1	2384.5	2274.7	10711.5	13162.9	14909.7	836096	73.1		8.4	0.9
Cuba	0	0	2312	85	3.7	0.75	54.1	2384.3	417.2	4142	6392	969.6	2850.6	1868.6	7794.7	11565.9	8821.8	1721834	109	18.8		0.8
Cyprus	0	0	986	19	1.9	1.6	63.6	1968.8	175.2	5210.8	5360.5	910	1917.7	1144.5	9649.8	8533.3	28159.3	163156	128.7		8.4	0.3
Czech Republic	0	0	10498	336	3.2	3.16	100.1	4998.8	410	8912.9	3478.4	1344.7	2135.7	2220.8	12032.1	13014.8	23078.6	2063603	137.6	12.2	2.2	0.8
Denmark	0	0	12591	600	4.8	10.35	151.8	2950.5	109.6	6419.3	5379.1	1194.8	1917.2	1814	15076.6	9646.2	61350.3	1148645	138.1	22.8	5	0.7
Dominican Republic	0	0	26677	662	2.5	6.23	11.5	1338.7	327.7	2212.5	5386	431.2	1974.5	1590.3	5538.7	7789.6	8050.6	752703	220	29.8		0.6
Ecuador	0	0	50640	4223	8.3	24.72	7.8	1162.4	301.4	2001	4757.3	414.7	1940.1	1653.4	5395.3	7238.5	6344.9	1222777	68.8	27.6	3.5	0.3
Egypt	0	0	55233	2193	4	2.23	4.8	1752.9	216.6	3239.3	6151	239.6	2064.9	636.8	6775.2	7360.3	2549.1	5147337	98.9	25.6		0.7
Estonia	0	0	1981	69	3.5	5.22	76.6	5135.4	527.3	6123.7	2707.3	1533.6	3031.5	5010.4	10390.8	19691.9	23266.3	259241	30.4		5.4	0.5
Finland	0	0	7143	326	4.6	5.91	98.9	3648	309.5	5140.4	5978.5	1225.2	3066.2	2461.5	12766.4	10212.8	50152.3	1198564	18.2	23.2	7.4	0.9
France	1	1	197008	29643	15	44.25	85.8	2696.5	232	5110.1	6211.9	1608.5	3065.9	1301.6	7222.6	9249.3	41463.6	13420643	122.3	22.8	9.1	0.6
Germany	0	0	191272	8895	4.7	10.73	149.9	3432.6	405.7	8513.8	4518.9	1612.8	2453.3	1757.4	9501.5	10861.3	47603	17797959	237.4	9.6	3.4	0.9
Ghana	0	0	14154	85	0.6	0.29	3.4	773.6	82.6	2126.4	2591.2	146.3	1814.3	907.8	4249.7	7457.8	2202.3	913522	130.8	18.5		0.6
Greece	0	0	3266	190	5.8	1.77	92.8	3312.8	299.7	7170.7	5098.9	1801.2	2890.5	989.5	9870.1	10547.5	20324.3	2323106	83.2	29.4	19.3	0.7
Hungary	1	0	4094	570	13.9	5.83	93	5412.6	778.9	10643.5	3525.4	1444.2	2400.3	2302.7	11650.3	13604.1	16162	1871477	107.9	18	3.7	0.6
Iceland	0	0	1823	10	0.5	2.83	98.3	2172.1	153.6	5873.5	8278.6	997.2	1908.5	1206.2	9738.5	7436.8	73191.1	52312	3.5		2.7	0.9
India	0	0	425282	13699	3.2	1.01	6.2	1197.5	116	3859.7	2209.8	237.4	2174.3	1112.8	4910.7	8335	2010	83591151	454.9	15.4	5.3	0.9
Indonesia	0	0	45891	2465	5.4	0.92	14.7	1302	186.5	2746.9	4884.1	390.8	1080.6	669.8	8131.9	10549.9	3893.6	15677491	147.8	13.4	4.5	0.8
Iran	0	0	204952	9623	4.7	11.76	9.6	1599.3	336.6	2156.6	3989.3	468	4212.3	635.6	7187.2	10148.8		5058998	50.2	26	12.1	0.6
Iraq	0	0	30868	1100	3.6	2.86	5.2	1816.7	157.1	2217.1	5265.2	261.6	2434.1	593.3	6303.4	7030.2	5834.2	1277379	88.5	25.1		0.6
Ireland	0	1	25379	1715	6.8	35.34	74.3	2201.6	91.4	6253.3	7338	906.6	2617.4	1913.7	10429.8	8117.2	78806.4	672978	70.5	24.8	5.7	0.9
Israel	0	0	20778	306	1.5	3.44	27.1	1796.5	111.9	3745.8	5189.2	788.8	2209.3	448.1	7550.8	7312	41715	1064011	410.5	57.9	4	0.7
Italy	1	1	238499	34634	14.5	57.31	112.3	3468.6	691.8	4960.8	3513.3	1932.1	2399.3	417.2	10448.6	10170.5	34483.2	13749132	205.5	18.7	10.6	
Jamaica	0	0	659	10	1.5	0.34	20.8	1813.9	429.2	2670.1	6861.2	579.7	1697.8	1503.6	9465	10307.2	5354.2	258169	271		9.1	0.2

Japan	0	0	17780	955	5.4	0.75	170.2	2928.6	474.4	4137.2	4583.3	2788.3	2331.2	505.8	7137.4	16680.3	39290	34892133	347.1	64.6	2.4	0.7
Jordan	0	0	1033	9	0.9	0.09	6.9	1581.5	311	2164.3	6166.7	256.2	2286.6	636.7	6543	7000.1	4241.8	382957	112.1	20.7		0.9
Kazakhstan	0	0	17732	120	0.7	0.66	18.9	1891.1	196.6	4318.8	2920.1	445.7	2274.5	3437.6	6432.4	9909.7	9812.6	1350971	6.8	15.9		0.7
Kenya	0	0	4738	123	2.6	0.24	2.5	784.7	62.6	1078.9	3366.2	141.6	1790.2	1048.6	3579.8	5551.5	1710.5	1202178	90.3	10.9		0.6
Lebanon	0	0	1587	32	2	0.47	21.3	1751.8	289.2	2993.8	6711.7	434.9	2520.4	660.1	7839.5	7847.8	8269.8	479587	669.5	34.8		0.7
Lithuania	0	0	1798	76	4.2	2.72	79.7	5396.4	201.7	6249.4	3459.2	1572.6	3410.4	4729.8	8952.3	18751.3	19153.4	549678	44.5		6.1	0.9
Luxembourg	0	0	4120	110	2.7	18.1	99.9	2181.8	171.7	6216	6889.9	1006.1	2271.3	1376.3	12350	8910.6	116639.9	86195	250.1		5.6	0.8
Macedonia	0	0	5106	238	4.7	11.43	48.8	3476.6	456.3	6986.1	4401.9	972.4	1679.1	2018.7	10464.2	11644.6	6083.7	284744	82.6		20.7	0.9
Malaysia	0	0	8572	121	1.4	0.38	15.6	1590.6	78.3	2076.3	4124.4	393.8	1847	644.2	7005.7	10402.7	11373.2	2103510	96	24	3.3	0.9
Mauritius	0	0	337	10	3	0.79	15.2	2070.5	392.2	2969.3	5426.4	701.9	2083.9	1467.8	18614.1	17144.1	11238.7	145183	623.3		6.4	0.8
Mexico	1	0	180545	21825	12.1	17.3	7.6	1484.8	236.1	3025.6	3327.3	447.1	1733.5	1680.3	10370	11500.8	9673.4	9115625	64.9	40.7	3.3	0.8
Moldova	0	0	14200	473	3.3	13.34	31.7	3831.8	199	4641.2	3373.2	937.7	2386.7	4661.6	8639.8	15775.2	3227.3	406697	123.5		3	0.8
Morocco	0	0	9977	214	2.1	0.59	12.8	2635.7	325.7	3859.5	4058.3	475.6	4398.9	581.5	8235.1	9268.9	3237.9	2526689	80.7	21.7		0.9
Netherlands	1	1	49801	6109	12.3	35.45	147.5	3502.8	94.7	6142.9	7182.6	1282.8	2442.7	737.6	11780.7	10067.2	53024.1	3307699	511.5	12.4	3.8	0.8
Niger	0	0	1036	67	6.5	0.3	2.6	482.1	64.1	1448.9	3315.8	95.6	1462.9	627.7	2522.1	4898.4	414	582396	17.7	5.4		0.7
Nigeria	0	0	20244	518	2.6	0.26	2.9	593.1	104.8	1557.2	3005.9	129.3	1980.2	751.8	2192.8	6153.6	2028.2	5381418	215.1	16.5		0.8
Norway	0	0	8745	244	2.8	4.59	112.3	2449.4	117.1	5944.4	7579.5	1235	2410	1405.7	10126.8	8805.6	81697.2	906053	14.6	19	3.8	0.7
Pakistan	0	0	181088	3590	2	1.69	7.4	1096.2	107.8	2084.4	3076.8	147.6	1660.9	1357.2	5013.8	6843.1	1482.4	9152355	275.3	20.1	4.1	0.9
Panama	0	0	26030	501	1.9	11.99	10.1	1377.2	257.8	2686.8	5003	497	1776.3	1349.2	5724.6	10105.1	15575.1	338524	56.2	42.7	3.9	0.8
Paraguay	0	0	1379	13	0.9	0.19	11.1	1264.7	256.6	2839.1	6161.9	390.6	1822.6	2294	5958	7012.6	5821.8	447290	17.5	46.3	6.2	0.7
Peru	0	0	251338	7861	3.1	24.57	9.1	1096.7	149.9	2115	5072.2	501.4	1259.2	1390.6	3925.4	6865.8	6941.2	2587417	25	32.5	6.4	0.9
Philippines	0	0	30052	1169	3.9	1.1	12.9	1161.3	205.1	3226.2	6046.8	306.8	1107.4	845.8	7414.5	9005.3	3102.7	5463318	357.7	14.3	2.3	0.6
Poland	0	0	31931	1356	4.2	3.57	71.3	4224.4	372.6	8347	4917.3	1285	1556.1	2292.7	9820.8	11292	15420.9	6653012	124	4.7	3.8	0.5
Portugal	0	0	39133	1530	3.9	14.88	42.9	2487.1	239	5482.2	8195.8	1592.2	3063.1	1161.4	15785.8	10941.6	23407.9	2257243	112.2	41.2	7	0.7

Qatar	0	0	87369	98	0.1	3.52	4.3	1313.9	75.6	2647	3454.7	79.6	2882.6	1021.6	8237.6	6850.3	68793.8	38111	239.6		0.1	0.9
Romania	0	0	24045	1512	6.3	7.76	56.2	4757.3	674.2	8377.6	4771.8	1361	1878.3	1797.5	7860.5	11905.8	12301.2	3571267	84.6	9.4	4.2	0.9
Russia	0	0	583879	8101	1.4	5.61	72.8	4198	201.6	5916.6	2899.3	1067.5	2625.4	5297.4	7085.2	18456.6	11288.9	21201732	8.8	23.2	4.8	0.7
Saudi Arabia	0	0	157612	1267	0.8	3.76	4.2	1509.1	67.1	1924.9	2969.4	159.4	2674.6	822.4	7933.6	6932.6	23339	1116846	15.7	47.3	6	0.8
Serbia	0	0	12894	261	2	3.74	89.6	4602.5	306.6	9616.5	3301.2	1204.1	2050.3	2159.4	11303	12874.7	7246.7	1280919	79.8	19.9	12.7	0.7
Singapore	0	0	42095	26	0.1	0.46	68.1	1729.1	381.1	1900.5	4051.3	635	2135.5	530.9	7049.6	11608.9	64581.9	646383	7953	100		0.8
Slovenia	0	0	1520	109	7.2	5.27	98.4	4528.6	664.5	7881.4	4803	1526.6	2465.2	2500.3	9262.3	12882.8	26124	405347	102.6		5.1	0.5
South Africa	0	0	97302	1930	2	3.34	13.5	1227.2	66.3	4093.9	2064.8	374.6	2515.8	1593.8	7503.6	10338.7	6374	3072723	47.6	35.3	26.9	
South Korea	0	0	12438	280	2.3	0.54	102.5	1352	417.6	4638.5	4420.7	988.7	2321.5	2063	9294.1	10350.7	31362.8	7445058	529.7	50.1	3.8	0.9
Spain	1	1	246272	28323	11.5	60.62	118.4	2733.5	180.4	6056	5115.6	1630.8	2454.3	786.6	9248.6	9126.3	30370.9	9054365	93.5	25.7	15.3	0.9
Sri Lanka	0	0	1950	11	0.6	0.05	8.5	1740.9	184	2699.9	5021.1	561.7	1878	968.9	10399.3	12711.2	4102.5	2269547	345.6			0.9
Sweden	0	1	56043	5053	9	49.62	62.2	3858.2	236.4	7265.5	8064.7	1280.2	3164.5	1503.8	10925.4	11233.9	54608.4	2046362	25	15.5	6.3	0.7
Switzerland	0	0	31292	1956	6.3	22.97	78.5	2581.9	264.7	6030.1	5867.6	1372.8	2375.2	1313.7	10505.4	9788.2	82796.5	1586054	215.5	16.1	4.7	0.7
Taiwan	0	0	446	7	1.6	0.03	70.9	1759.5	538	9913.9	3712.6	933.8	1629.6	2344	10112.8	11665.4						0.8
Thailand	0	0	3148	58	1.8	0.08	28.6	1771.7	145.8	2296.6	5109.7	820.8	1734.5	1023.1	7637.9	13537	7273.6	8262614	135.9	20.1		0.4
Tunisia	0	0	1157	50	4.3	0.43	19.1	2549.9	434.8	3585.9	4523.1	655.5	2931.9	670.3	7742.6	10646.8	3447.5	961725	74.4	19.8	15.5	0.8
Turkey	0	0	187685	4950	2.6	6.01	35.7	2418.8	421.8	6057.9	4849.8	773.7	2559.6	790.5	6672.4	11239	9370.2	6983357	107	36.9	10.9	0.5
Ukraine	0	0	37361	1012	2.7	2.27	85.1	4635.9	48.1	6140.7	3775.3	1212.3	3250.6	5276	8122	17550.8	3095.2	7333571	77	12.1	8.8	0.7
United Arab Emirates	0	0	44925	302	0.7	3.14	5.2	1286.3	167.1	4082.7	5773.3	62.9	2318.2	1060.2	9725.6	7441.4	43005	104496	135.6	60	2.2	0.8
United Kingdom	1	1	305803	42717	14	64.25	143.6	3337.8	146.2	8188.9	8371.2	1227.5	2715.4	1762.1	9091.4	8459	42943.9	12231225	274.8	26.8	4	0.5
United States	0	1	2279879	119969	5.3	36.67	142.2	2929.1	285.8	6412.5	4983.1	887.8	2958.7	1926.8	9439.2	11949.5	62794.6	51717496	35.8	46.3	3.9	0.6
Uruguay	0	0	876	25	2.9	0.72	45.9	1875.6	305.9	5283.6	5305.1	1059.1	2150.8	1125.9	10012	9945.6	17278	510997	19.7	50.4	8.3	0.9
Venezuela	0	0	3917	33	0.8	0.11	16.2	1398.8	379.6	3489.6	3980.8	428.8	1949.6	1403.3	6110.1	10024.6		2097993	32.7	32.4		0.7