Supplementary Table 1: The deaths number of COPD attributable to occupational particulate matter, gases, and fumes in 204 countries

measu re	locati on	sex	age	cause	rei	metric	year	val	upper	lower
Death s	China	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number	2019	200748	260704	151898
Death s	India	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number	2019	148380	187391	106620
Death s	United States of	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number	2019	18111.8	22406.6	13981
Death s	Indone sia	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number	2019	12960	16380. 7	9935.1
Death s	Bangla desh	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number	2019	8972.4	15685.2	6081.9
Death s	Pakist an	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number	2019	8471.2	11551.2	5984.1
Death s	Brazil	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number	2019	8240.9	10136.7	6603
Death s	Nepal	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number	2019	6959.9	8835.5	5009.8
Death s	Viet Nam	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number	2019	5438.8	7246.8	2021.6
Death s	Democr atic People	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number	2019	4782.6	6092.9	3529. 7
Death s	Mexico	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number	2019	4424.9	5750.4	3238
Death s	Myanma r	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number	2019	4029.9	5077.9	2931.6
Death s	Russia n Federa	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number	2019	4014	5191.4	3073.8
Death s	Turkey	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number	2019	3986.8	5312.8	2626.1

Death s	Japan	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	3804.6	5930.6	2281.2
Death s	Philip pines	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	3642. 4	4801.3	2700.9
Death s	German y	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	3571.3	4702.8	2635.6
Death s	United Kingdo m	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	3500.8	4576.3	2562.8
Death s	Thaila nd	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	3428.2	4856	2334.9
Death s	Nigeri a	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	2485.9	3286.7	1816.1
Death s	Spain	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	2415.2	3503.8	1529.2
Death s	Italy	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	2086	2910.5	1360.3
Death s	Democr atic Republ	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	2013. 7	3039	1266
Death s	Argent ina	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1 963. 4	2474.3	1517.6
Death s	Colomb ia	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1762.5	2437	1175.7
Death s	Ethiop ia	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1700.4	2157.9	1265.3
Death s	Egypt	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1665.9	2444.5	884.3
Death s	Canada	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1358.3	1788.4	987.7
Death s	South Africa	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1347.6	1647.4	1099.6
Death s	Iran (Islam ic	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1330. 9	1677.3	1019.5

Death s	Kazakh stan	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1234. 2	1561.9	959
Death s	Ukrain e	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1174.4	1706.5	850.1
Death s	Republ ic of Korea	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1168.8	1602.8	816.3
Death s	France	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1140.3	1592.8	774.3
Death s	Taiwan (Provi nce of	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1125.1	1588.2	745.7
Death s	Poland	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1117.7	1497.1	824.8
Death s	Malays ia	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1010.4	1429.5	733.4
Death s	Romani a	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1003.4	1321.3	717.4
Death s	Kenya	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	990. 9	1330. 9	728.8
Death s	United Republ ic of	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	878.1	1103.7	662.5
Death s	Venezu ela (Boliv	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	765.9	1060. 9	538.3
Death s	Austra lia	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	741.7	997.7	529.6
Death s	Madaga scar	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	739.3	1016	506.9
Death s	Ghana	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	731.9	954.7	427.9
Death s	Cambod ia	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	731	915.9	541.2
Death s	Morocc o	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	699.3	939. 2	492.9

Death s	Sri Lanka	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	664.4	924.6	426.5
Death s	Uganda	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	656.3	891.9	448.1
Death s	Nether lands	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	642.3	865.6	449.3
Death s	Sudan	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	619.2	911.3	359.8
Death s	Portug al	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	595.9	817.6	403.3
Death s	Hungar y	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	551.8	718.6	417.3
Death s	Papua New Guinea	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	541.1	718.5	383.7
Death s	Cuba	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	504	661.6	363
Death s	Greece	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	488.7	679	319.6
Death s	Algeri a	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	477.3	674.8	325.1
Death s	Belgiu m	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	474.7	643.2	338.3
Death s	Afghan istan	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	468.2	655.4	296. 4
Death s	Camero on	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	462.5	634.3	307.7
Death s	Chile	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	453.3	613.5	328.1
Death s	Czechi a	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	438.8	586.9	317.4
Death s	Mali	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	436.6	578	312.4

Death s	Mozamb ique	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	432.2	589.2	311.5
Death s	Yemen	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	394.6	571.9	266.8
Death s	Somali a	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	383.5	647	236.2
Death s	Peru	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	367.6	543.2	239
Death s	Denmar k	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	359.7	468.3	259
Death s	Uzbeki stan	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	356.2	489.7	271.2
Death s	C么te d'Ivoi re	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	352.2	469.3	254.8
Death s	Rwanda	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	349.2	464.6	255.5
Death s	Hondur as	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	346.2	478	207.7
Death s	Serbia	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	344	471.3	247.4
Death s	Sweden	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	335.3	443.8	238.9
Death s	Lao People 's	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	333.9	438.6	250.2
Death s	Ecuado r	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	331.9	467.8	220.6
Death s	Angola	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	329.9	439.8	245.4
Death s	Niger	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	318.1	481.2	212.3
Death s	Burund i	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	316.4	429.4	228.1

Death s	Bolivi a (Pluri	Both	All ages	Chronic obstructive pulmonary Chronic	Occupational particulate matter,	Number 2019	308. 5	426. 2	216. 8
Death s	Bulgar ia	Both	All ages	obstructive pulmonary	Occupational particulate matter,	Number 2019	297.9	406.6	215.4
Death s	Burkin a Faso	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	270.9	354.2	206.2
Death s	Austri a	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	267.5	344	200. 9
Death s	Haiti	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	263.2	386.9	155.1
Death s	Senega 1	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	257.6	341.4	185
Death s	Switze rland	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	257.3	350. 3	184.6
Death s	Guatem ala	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	257.2	366.4	176.7
Death s	Belaru s	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	256	389.8	176.9
Death s	Malawi	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	255.8	323. 7	190.4
Death s	Zambia	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	255.2	326. 7	188.5
Death s	Chad	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	248.6	342.9	175.1
Death s	Guinea	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	248.5	333. 2	173.1
Death s	Zimbab we	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	241.9	319.7	164.2
Death s	Tunisi a	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	227.3	331.7	145. 1
Death s	Syrian Arab Republ	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	222. 5	336. 1	146.8

Death s	Norway	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	220. 5	285.8	156. 1
Death s	Saudi Arabia	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	220	289.2	160.3
Death s	Urugua y	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	218	281.3	165.6
Death s	Azerba ijan	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	205.8	318.6	153
Death s	Kyrgyz stan	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	204.3	261.4	157.3
Death s	Benin	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	201.2	274.8	147.3
Death s	New Zealan d	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	189.2	245.7	140.3
Death s	Iraq	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	181.2	250. 7	128.4
Death s	United Arab Emirat	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	166.4	245.4	92.2
Death s	Domini can Republ	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	164.1	227.3	113.5
Death s	Irelan d	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	162.9	225.6	111.5
Death s	Finlan d	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	161.8	213.1	115.9
Death s	Armeni a	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	152	201.9	109.1
Death s	Georgi a	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	146.1	208.1	107.1
Death s	Nicara gua	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	144.5	190.6	102.5
Death s	South Sudan	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	142.1	200. 6	92.5

Death s	Togo	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	138.6	190. 3	97.8
Death s	Croati a	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	138.6	189.4	92.8
Death s	Sierra Leone	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	135.6	187.1	93.9
Death s	Costa Rica	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	135.5	190. 1	91.3
Death s	Paragu ay	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	135.3	184.7	94.7
Death s	Centra 1 Africa	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	126.7	181.7	83. 3
Death s	El Salvad or	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	125. 3	174.3	85.2
Death s	Israel	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	122.7	166.1	88
Death s	Tajiki stan	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	122.6	190.5	91.1
Death s	Eritre a	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	119	159.7	83.6
Death s	Lesoth o	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	109.3	155.4	75.4
Death s	Slovak ia	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	108.6	151.2	76.3
Death s	Lebano n	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	95.9	137.3	58.7
Death s	Bosnia and Herzeg	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	89.4	122.8	61.8
Death s	Republ ic of Moldov	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	79.3	107	58.9
Death s	Libya	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	79.1	113.6	50. 5

Death s	Bhutan	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	78.8	112. 7	54.1
Death s	Puerto Rico	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	77.6	112.1	51.3
Death s	Jamaic a	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	77.1	105.8	54.1
Death s	Panama	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	74.4	106.7	50.2
Death s	Congo	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	73.6	99	49.5
Death s	Lithua nia	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	71.8	98.3	51.4
Death s	Namibi a	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	66.5	89.1	46.8
Death s	Albani a	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	63.5	92.6	41.5
Death s	Timor- Leste	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	60.1	83.2	42.6
Death s	Jordan	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	56.6	78.4	40.1
Death s	Sloven ia	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	55.3	78.9	37.5
Death s	Singap ore	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	54.4	76	39.6
Death s	Botswa na	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	53.2	74.9	35.2
Death s	Liberi a	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	49.2	70.3	34.4
Death s	North Macedo nia	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	46.3	62.3	32.7
Death s	Mongol ia	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	41.7	58.9	31.1

Death s	Maurit ania	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	41.5	55.7	29.9
Death s	Turkme nistan	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	41.2	67.7	29
Death s	Maurit ius	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	40.2	54.9	29.3
Death s	Gambia	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	37.4	50.5	26.6
Death s	Cyprus	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	36.8	51.5	24.5
Death s	Latvia	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	35.8	50.7	25.3
Death s	Guinea - Bissau	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	34.1	46	23.5
Death s	Estoni a	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	31	42.5	21.6
Death s	Palest ine	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	29.6	38.9	21.9
Death s	Eswati ni	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	27.3	37.3	19.4
Death s	Oman	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	24.8	32.4	17.6
Death s	Solomo n Island	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	24.5	32	17.7
Death s	Trinid ad and Tobago	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	23.6	33.7	16.1
Death s	Gabon	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	21.3	29.8	14
Death s	Comoro s	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	20	26.6	14.8
Death s	Vanuat u	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	19.7	26.9	14.3

Death s	Fiji	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	17.9	24.2	13
Death s	Kuwait	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	16.5	22.7	11.3
Death s	Equato rial Guinea	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	14.6	23.2	8.9
Death s	Luxemb ourg	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	13.1	17.9	9.1
Death s	Bahrai n	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	12.7	16.9	9.2
Death s	Maldiv es	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	11.9	16	8.8
Death s	Djibou ti	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	11.8	17.6	7.2
Death s	Malta	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	11.3	16	7.6
Death s	Guyana	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	10.5	14	7.4
Death s	Cabo Verde	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	10.1	14.4	7.5
Death s	Icelan d	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	9.8	13	6.8
Death s	Surina me	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	7.9	10.5	5.9
Death s	Samoa	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	7.7	10.3	5.8
Death s	Qatar	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	7.5	12	5.2
Death s	Belize	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	6.7	8.8	5
Death s	Saint Lucia	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	6.1	8.2	4.5

Death s	Sao Tome and	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	5.9	7.9	4.2
Death s	Monten egro	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	5.6	7.7	3.8
Death s	Brunei Daruss alam	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	5.1	6.7	3.8
Death s	Barbad os	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	4.6	6.1	3.3
Death s	Micron esia (Feder	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	4.4	6.1	3.1
Death s	Guam	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	3.7	5.1	2.7
Death s	Tonga	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	3.6	4.8	2.5
Death s	Seyche lles	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	3.3	4.2	2.5
Death s	Bahama s	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	3	4.1	2.2
Death s	Andorr a	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	2.8	4.1	1.8
Death s	Greenl and	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	2.4	3.1	1.8
Death s	United States Virgin	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	2.3	3.1	1.7
Death s	Americ an Samoa	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	2.2	2.9	1.8
Death s	Domini ca	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	2	2.7	1.4
Death s	Saint Vincen t and	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1.9	2.4	1.4
Death s	Grenad a	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1.7	2.1	1.3

Death s	Northe rn Marian	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1.6	2	1.2
Death s	Bermud a	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1.5	2	1
Death s	Marsha 11 Island	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1.4	2	1
Death s	Kiriba ti	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1.4	1.8	1
Death s	Monaco	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1.2	1.7	0.8
Death s	Palau	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1.1	1.5	0.8
Death s	Saint Kitts and	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	1.1	1.4	0.9
Death s	Antigu a and Barbud	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	0.8	1.1	0.6
Death s	San Marino	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	0.7	1.1	0.4
Death s	Cook Island s	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	0.6	0.8	0.5
Death s	Tuvalu	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	0.6	0.8	0.4
Death s	Nauru	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	0.2	0.3	0.2
Death s	Niue	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	0.1	0.1	0.1
Death s	Tokela u	Both	All ages	Chronic obstructive pulmonary	Occupational particulate matter,	Number 2019	0.1	0.1	0

Supplementary Table 2: The ASMR of COPD attributable to occupational particulate matter, gases, and fumes in 204 countries

measure	locatio n	sex	age	cause	rei	metri c	year	val	upper	lower
Deaths	Nepal	Both	Age- standar dized Age-	Chronic obstruc tive pulmona Chronic	ional particu late Occupat	Rate	2019	39	50	27.7
Deaths	Bhutan	Both	standar dized	obstruc tive pulmona Chronic	ional particu late Occupat	Rate	2019	16.9	24.5	11.3
Deaths	Papua New Guinea	Both	Age- standar dized	obstruc tive pulmona	ional particu late	Rate	2019	16.4	21.7	11.5
Deaths	Democra tic People' s	Both	Age- standar dized	Chronic obstruc tive pulmona Chronic	ional particu late	Rate	2019	16.4	21	12.1
Deaths	India	Both	Age- standar dized	obstruc tive pulmona Chronic	Occupat ional particu late Occupat	Rate	2019	15.6	19.9	11.2
Deaths	Vanuatu	Both	Age- standar dized	obstruc tive pulmona Chronic	ional particu late Occupat	Rate	2019	14.3	19.5	10
Deaths	China	Both	Age- standar dized	obstruc tive pulmona	ional particu late	Rate	2019	12	15.7	8.9
Deaths	Solomon Islands	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	10.6	13.9	7.5
Deaths	Myanmar	Both	Age- standar dized	Chronic obstruc tive pulmona	ional particu late	Rate	2019	10.5	13.4	7.5
Deaths	Lesotho	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	10.5	14.8	7.2
Deaths	Pakista n	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	10.2	13.9	7.1

Deaths	Lao People' s Democra	Both	Age- standar dized	Chronic obstruc tive pulmona	ional particu late	Rate	2019	9.9	13.2	7.3
Deaths	Madagas car	Both	Age- standar dized	Chronic obstruc tive pulmona	ional particu late	Rate	2019	9.7	13.2	6.5
Deaths	Burundi	Both	Age- standar dized	Chronic obstruc tive pulmona	ional particu late	Rate	2019	9.3	12.6	6.7
Deaths	Timor- Leste	Both	Age- standar dized	Chronic obstruc tive pulmona	ional particu late	Rate	2019	9.2	12.6	6.5
Deaths	Nauru	Both	Age- standar dized	Chronic obstruc tive pulmona	ional particu late	Rate	2019	8.6	11.7	6.2
Deaths	Microne sia (Federa ted	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	8.4	11.3	6.1
Deaths	Kazakhs tan	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	8.3	10.7	6.4
Deaths	Central African Republi c	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	8.3	12.2	5.4
Deaths	Indones ia	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	8.1	10.4	6.2
Deaths	Cambodi a	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	8	10. 1	5.7
Deaths	Democra tic Republi c of	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	7.9	12.2	4.9
Deaths	Banglad esh	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	7.8	14	5.2
Deaths	Somalia	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	7.7	13	4.8

Deaths	Rwanda	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	7.7	10.2	5.6
Deaths	Palau	Both	Age- standar dized	obstruc tive pulmona	Occupat ional particu late	Rate	2019	7.5	9.9	5.4
Deaths	Sao Tome and Princip	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	7.2	9.8	5
Deaths	Tuvalu	Both	Age- standar dized	obstruc tive pulmona	Occupat ional particu late	Rate	2019	7.1	9.8	5.2
Deaths	Viet Nam	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	7.1	9.4	2.6
Deaths	Hondura s	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	6.7	9.3	3.9
Deaths	Marshal 1 Islands	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	6.2	8.9	4.3
Deaths	Samoa	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	6.2	8.3	4.6
Deaths	Eritrea	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	6.1	8.2	4.2
Deaths	Uganda	Both	Age- standar dized		Occupat ional particu late	Rate	2019	6	8.1	4.2
Deaths	Guinea- Bissau	Both	Age- standar dized		Occupat ional particu late	Rate	2019	6	8.2	4.2
Deaths	Kenya	Both	Age- standar dized	Chronic obstruc tive pulmona		Rate	2019	6	8.2	4.4
Deaths	Mali	Both	Age- standar dized	chronic obstruc tive pulmona	late Occupat ional particu late	Rate	2019	5.9	7.8	4.3

Deaths	Eswatin i	Both	Age- standar dized	obstruc tive pulmona	Occupat ional particu late	Rate	2019	5.8	7.9	4.1
Deaths	Ghana	Both	Age- standar dized	Chronic obstruc tive pulmona	ional particu late	Rate	2019	5.8	7.6	3.4
Deaths	Philipp ines	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	5.8	7.8	4.3
Deaths	America n Samoa	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	5.7	7.4	4.4
Deaths	Chad	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	5.5	7.7	3.9
Deaths	Namibia	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	5.5	7.5	3.9
Deaths	Kyrgyzs tan	Both	Age- standar dized	Chronic obstruc tive	Occupat ional particu	Rate	2019	5.5	7.2	4.2
Deaths	Niger	Both	Age- standar dized	pulmona Chronic obstruc tive pulmona	late Occupat ional particu late	Rate	2019	5.4	8.2	3.6
Deaths	Guinea	Both	Age- standar dized	chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	5.3	7.2	3.6
Deaths	Benin	Both	Age- standar dized		Occupat ional particu late	Rate	2019	5.2	7	3.8
Deaths	Maldive s	Both	Age- standar dized	Chronic obstruc tive	Occupat ional particu	Rate	2019	5.2	7	3.7
Deaths	Ethiopi a	Both	Age- standar dized	pulmona Chronic obstruc tive	ional particu	Rate	2019	5.2	6.7	3.8
Deaths	Botswan a	Both	Age- standar dized	pulmona Chronic obstruc tive pulmona	late Occupat ional particu late	Rate	2019	5.1	7.1	3.4

Deaths	Mozambi que	Both	Age- standar dized	obstruc tive pulmona	Occupat ional particu late	Rate	2019	5.1	7	3.7
Deaths	Cameroo n	Both	Age- standar dized	obstruc tive pulmona	Occupat ional particu late	Rate	2019	5.1	7	3.4
Deaths	Zambia	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	5.1	6.5	3.7
Deaths	Togo	Both	Age- standar dized	obstruc tive pulmona	Occupat ional particu late	Rate	2019	5.1	6.8	3.6
Deaths	South Sudan	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	5	7.2	3.3
Deaths	Haiti	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	5	7.3	2.9
Deaths	Afghani stan	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	4.9	7	3
Deaths	Turkey	Both	Age- standar dized	-	Occupat ional particu late	Rate	2019	4.9	6.5	3.2
Deaths	United Arab Emirate s	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	4.7	6.8	3
Deaths	Comoros	Both	Age- standar dized		Occupat ional particu late	Rate	2019	4.7	6.3	3.5
Deaths	Tokelau	Both	Age- standar dized		Occupat ional particu late	Rate	2019	4.7	6.3	3.4
Deaths	Zimbabw e	Both	Age- standar dized	Chronic obstruc tive pulmona		Rate	2019	4.7	6.2	3.2
Deaths	Tonga	Both	Age- standar dized		Occupat ional particu late	Rate	2019	4.7	6.3	3.3

Deaths	Sierra Leone	Both	Age- standar dized	Chronic obstruc tive pulmona	ional particu late	Rate	2019	4.7	6.4	3.3
Deaths	Gambia	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	4.6	6.3	3.3
Deaths	Malaysi a	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	4.6	6.5	3. 3
Deaths	C么te d'Ivoir e	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	4.6	6	3.2
Deaths	Niue	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	4.5	6.1	3.4
Deaths	Angola	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	4.5	6.1	3.3
Deaths	United Republi c of Tanzani	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	4.4	5.6	3.3
Deaths	Malawi	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	4.4	5.6	3.2
Deaths	Bolivia (Plurin ational State	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	4.4	6.1	3
Deaths	Equator ial Guinea	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	4.3	7	2.6
Deaths	Norther n Mariana Islands	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	4.3	5.5	3.2
Deaths	Nicarag ua	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	4.2	5.7	2.9
Deaths	Senegal	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	4.2	5.6	3

Deaths	Mexico	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	4.2	5.5	3
Deaths	Greenla nd	Both	Age- standar dized	Chronic obstruc tive pulmona	ional particu late	Rate	2019	4.2	5.4	2.9
Deaths	Sudan	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	4.1	6.1	2.4
Deaths	Congo	Both	Age- standar dized	obstruc tive pulmona	Occupat ional particu late	Rate	2019	4.1	5.5	2.8
Deaths	Nigeria	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	3.9	5.3	2.8
Deaths	Armenia	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	3.8	5.1	2.7
Deaths	Yemen	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	3.8	5.6	2.5
Deaths	Burkina Faso	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	3.8	5	2.8
Deaths	Uruguay	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	3. 7	4.7	2.9
Deaths	Brazil	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	3. 7	4.6	2.9
Deaths	Tajikis tan	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	3.6	5.8	2.6
Deaths	Thailan d	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	3.5	5	2.4
Deaths	Argenti na	Both	Age- standar dized	Chronic obstruc tive pulmona		Rate	2019	3.5	4.4	2.7

Deaths	South Africa	Both	Age- standar dized	obstruc tive pulmona	Occupat ional particu late	Rate	2019	3.5	4.4	2.8
Deaths	Seychel les	Both	Age- standar dized	Chronic obstruc tive pulmona	ional particu late	Rate	2019	3.5	4.5	2.6
Deaths	Brunei Darussa lam	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	3.3	4.6	2.3
Deaths	Colombi a	Both	Age- standar dized	obstruc tive pulmona	Occupat ional particu late	Rate	2019	3.2	4.4	2.2
Deaths	Egypt	Both	Age- standar dized	Chronic obstruc tive pulmona	ional particu late	Rate	2019	3.2	4.8	1.7
Deaths	Azerbai jan	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	3.2	5	2.3
Deaths	Fiji	Both	Age- standar dized	Chronic obstruc tive pulmona	ional particu late	Rate	2019	3.2	4.4	2.3
Deaths	Liberia	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	3.2	4.5	2.2
Deaths	United States of America	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	3.1	3.8	2.4
Deaths	Qatar	Both	Age- standar dized	Chronic obstruc tive pulmona	ional particu late	Rate	2019	3	4.6	1.9
Deaths	Saint Lucia	Both	Age- standar dized	obstruc tive pulmona	Occupat ional particu late	Rate	2019	3	4	2.2
Deaths	Sri Lanka	Both	Age- standar dized	Chronic obstruc tive pulmona	ional particu late	Rate	2019	2.9	4.1	1.9
Deaths	Djibout i	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.9	4.3	1.8

Deaths	Bahrain	Both	Age- standar dized	obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.9	4	2
Deaths	Denmark	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.8	3. 7	2.1
Deaths	Venezue la (Boliva rian	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.8	4	2
Deaths	Uzbekis tan	Both	Age- standar dized	Chronic obstruc tive pulmona	ional particu late	Rate	2019	2.8	4.3	2.1
Deaths	Belize	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.8	3.7	2.1
Deaths	Taiwan (Provin ce of China)	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.8	3.9	1.9
Deaths	Morocco	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.8	3.7	1.9
Deaths	Hungary	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.8	3.6	2.1
Deaths	Guatema la	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.8	3.9	1.9
Deaths	Oman	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.7	3. 7	1.8
Deaths	Costa Rica	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.7	3.8	1.8
Deaths	Ecuador	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.7	3.8	1.8
Deaths	Cook Islands	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.6	3. 5	2

Deaths	Paragua y	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.6	3.6	1.8
Deaths	Gabon	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.6	3.6	1.8
Deaths	Kiribat i	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.6	3.5	1.8
Deaths	Jamaica	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.6	3.5	1.8
Deaths	Mauriti us	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.6	3.6	1.8
Deaths	Cuba	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.6	3.3	1.9
Deaths	Romania	Both	Age- standar dized	Chronic obstruc tive	Occupat ional particu	Rate	2019	2.5	3.3	1.8
Deaths	Cabo Verde	Both	Age- standar dized	pulmona Chronic obstruc tive pulmona	late Occupat ional particu late	Rate	2019	2.5	3.6	1.9
Deaths	Mongoli a	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.5	3.4	1.9
Deaths	United Kingdom	Both	Age- standar dized	Chronic obstruc tive pulmona		Rate	2019	2.5	3.2	1.9
Deaths	Maurita nia	Both	Age- standar dized	Chronic obstruc tive pulmona		Rate	2019	2.4	3.2	1.7
Deaths	Syrian Arab Republi	Both	Age- standar dized	Chronic obstruc tive	Occupat ional particu	Rate	2019	2.3	3.5	1.5
Deaths	c Georgia	Both	Age- standar dized	pulmona Chronic obstruc tive pulmona	late Occupat ional particu late	Rate	2019	2.3	3.2	1.7

Deaths	New Zealand	Both	Age- standar dized	obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.2	2.9	1.7
Deaths	Serbia	Both	Age- standar dized	Chronic obstruc tive pulmona	ional particu late	Rate	2019	2.1	3	1.5
Deaths	Dominic a	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.1	2.9	1.5
Deaths	Iran (Islami c Republi	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2.1	2.7	1.6
Deaths	Norway	Both	Age- standar dized	Chronic obstruc tive		Rate	2019	2.1	2.7	1.5
Deaths	Ireland	Both	Age- standar dized	pulmona Chronic obstruc tive	Occupat ional particu	Rate	2019	2.1	2.8	1.4
Deaths	Saudi Arabia	Both	Age- standar dized	pulmona Chronic obstruc tive	ional particu	Rate	2019	2	2.8	1.4
Deaths	Guam	Both	Age- standar dized	pulmona Chronic obstruc tive	ional particu	Rate	2019	2	2.8	1.5
Deaths	Tunisia	Both	Age- standar dized	pulmona Chronic obstruc tive	late Occupat ional particu	Rate	2019	2	3	1.3
Deaths	Cyprus	Both	Age- standar dized	pulmona Chronic obstruc tive	ional particu	Rate	2019	2	2.9	1.3
Deaths	Portuga 1	Both	Age- standar dized	pulmona Chronic obstruc tive	ional particu	Rate	2019	2	2.7	1.4
Deaths	Spain	Both	Age- standar dized	pulmona Chronic obstruc tive	ional particu	Rate	2019	2	2.8	1.4
Deaths	Saint Kitts and Nevis	Both	Age- standar dized	pulmona Chronic obstruc tive pulmona	late Occupat ional particu late	Rate	2019	2	2.6	1.6

Deaths	Guyana	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2	2.7	1.4
Deaths	Czechia	Both	Age- standar dized	obstruc tive pulmona	Occupat ional particu late	Rate	2019	2	2.6	1.4
Deaths	El Salvado r	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	2	2.7	1.3
Deaths	Bulgari a	Both	Age- standar dized	obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.9	2.6	1.4
Deaths	Algeria	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.9	2.8	1.3
Deaths	Dominic an Republi c	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.9	2.7	1.3
Deaths	Andorra	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.9	2.8	1.2
Deaths	Chile	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.9	2.6	1.4
Deaths	Belgium	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.9	2.4	1.4
Deaths	Lebanon	Both	Age- standar dized		Occupat ional particu late	Rate	2019	1.9	2.7	1.1
Deaths	Libya	Both	Age- standar dized		Occupat ional particu late	Rate	2019	1.8	2.7	1.2
Deaths	Canada	Both	Age- standar dized		Occupat ional particu late	Rate	2019	1.8	2.4	1.3
Deaths	Panama	Both	Age- standar dized		Occupat ional particu late	Rate	2019	1.8	2.5	1.2

Deaths	Nether1 ands	Both	Age- standar dized	obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.7	2.3	1.2
Deaths	Germany	Both	Age- standar dized	Chronic obstruc tive pulmona	ional particu late	Rate	2019	1.7	2.1	1.3
Deaths	Russian Federat ion	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.7	2.2	1.3
Deaths	Grenada	Both	Age- standar dized	Chronic obstruc tive pulmona	ional particu late	Rate	2019	1.7	2.1	1.3
Deaths	Palesti ne	Both	Age- standar dized	Chronic obstruc tive pulmona	ional particu late	Rate	2019	1.7	2.2	1.2
Deaths	North Macedon ia	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.6	2.3	1.1
Deaths	Austral ia	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.6	2.2	1.2
Deaths	Greece	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.6	2.1	1.1
Deaths	Iceland	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.6	2.1	1.1
Deaths	Belarus	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.6	2.4	1.1
Deaths	Poland	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.5	2	1.1
Deaths	Ukraine	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.5	2.2	1.1
Deaths	Bosnia and Herzego vina	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.5	2.1	1

Deaths	Saint Vincent and the Grenadi	Both	Age- standar dized	Chronic obstruc tive pulmona	ional particu late	Rate	2019	1.5	1.9	1.1
Deaths	Albania	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.5	2.1	0.9
Deaths	Surinam e	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.4	1.9	1.1
Deaths	Croatia	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.4	1.9	1
Deaths	Republi c of Korea	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.4	1.9	1
Deaths	Austria	Both	Age- standar dized	Chronic obstruc tive pulmona		Rate	2019	1.4	1.8	1.1
Deaths	Republi c of Moldova	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.4	1.8	1
Deaths	Sweden	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.4	1.8	1
Deaths	Trinida d and Tobago	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.3	1.9	0.9
Deaths	Switzer land	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.3	1.7	1
Deaths	United States Virgin Islands	Both	Age- standar dized	Chronic obstruc tive pulmona		Rate	2019	1.3	1.6	0.9
Deaths	Turkmen istan	Both	Age- standar dized	chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.3	2.1	0.9
Deaths	Luxembo urg	Both	Age- standar dized	chronic obstruc tive pulmona	late Occupat ional particu late	Rate	2019	1.2	1.6	0.9

Deaths	Finland	Both	Age- standar dized	obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.2	1.5	0.9
Deaths	Jordan	Both	Age- standar dized	obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.2	1.6	0.8
Deaths	Slovaki a	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.2	1.6	0.8
Deaths	Italy	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.2	1.6	0.8
Deaths	Peru	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.1	1.7	0.7
Deaths	Lithuan ia	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.1	1.5	0.8
Deaths	Sloveni a	Both	Age- standar dized		Occupat ional particu late	Rate	2019	1.1	1.6	0.8
Deaths	Malta	Both	Age- standar dized		Occupat ional particu late	Rate	2019	1.1	1.5	0.8
Deaths	Monaco	Both	Age- standar dized	chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	1.1	1.5	0.8
Deaths	Estonia	Both	Age- standar dized		late Occupat ional particu late	Rate	2019	1	1.4	0.7
Deaths	Bermuda	Both	Age- standar dized	Chronic obstruc tive	Occupat ional particu	Rate	2019	1	1.4	0.7
Deaths	Iraq	Both	Age- standar dized	pulmona Chronic obstruc tive	ional particu	Rate	2019	1	1.4	0. 7
Deaths	Israel	Both	Age- standar dized	pulmona Chronic obstruc tive pulmona	late Occupat ional particu late	Rate	2019	1	1.3	0. 7

Deaths	Kuwait	Both	Age- standar dized	obstruc tive pulmona	Occupat ional particu late	Rate	2019	0.9	1.3	0.6
Deaths	Puerto Rico	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	0.9	1.3	0.6
Deaths	Antigua and Barbuda	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	0.9	1.3	0.7
Deaths	San Marino	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	0.9	1.4	0.6
Deaths	Barbado s	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	0.9	1.2	0.7
Deaths	Bahamas	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	0.9	1.2	0.6
Deaths	Latvia	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	0.8	1.2	0.6
Deaths	Japan	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	0.8	1.2	0.5
Deaths	Singapo re	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	0.8	1.1	0.5
Deaths	France	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupat ional particu late	Rate	2019	0.7	0.9	0.5
Deaths	Montene gro	Both	Age- standar dized	Chronic obstruc tive pulmona		Rate	2019	0.6	0.8	0.4

Supplementary Table 3: The ASDR of COPD attributable to occupational particulate matter, gases, and fumes in 204 countries

measure locatio	sex	age	cause	rei	metri c	year	val	upper	lower
DALYs (Disabi lity- Nepal Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	724.5	894.2	549
DALYs Democra (Disabi tic lity- People' Adjuste s	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	329. 5	410. 7	253. 7
DALYs (Disabi Papua lity- New Adjuste Guinea	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	326.2	426.7	238.2
DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	324.5	439.3	236.5
DALYs (Disabi lity- India Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	318.6	391.6	241.9
DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	287.3	388.4	212.6
DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	244. 7	332.9	176.8
DALYs (Disabi lity- Myanmar Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	230. 5	282.7	179
DALYs (Disabi Madagas lity- car Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	227.4	295	169.6
DALYs (Disabi Solomon lity- Islands Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	225.5	290.8	166.4

DALYs Lao (Disabi People' lity- s Adjuste Democra	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	221.7	278.4	175
DALYs (Disabi Pakista lity- n Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	al particulat e matter,	Rate	2019	217.8	284	162.1
DALYs (Disabi lity- China Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	al particulat e matter,	Rate	2019	212.5	267.3	169.2
DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	210.9	274. 3	161.3
DALYs (Disabi lity- Nauru Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	al particulat e matter,	Rate	2019	190. 4	243.3	145.8
DALYs Central (Disabi African lity- Republi Adjuste c	Both	Age- standar dized	obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	188.8	260. 1	133.9
DALYs (Disabi Timor- lity- Leste Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	185.4	242.7	138.9
Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	178.8	277.9	120.3
DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	al particulat e matter,	Rate	2019	177.3	225. 1	138.7
DALYs Microne (Disabi sia lity- (Federa Adjuste ted	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	176.2	236. 2	127.6
DALYs (Disabi Kazakhs lity- tan Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	al particulat e matter,	Rate	2019	176	214.4	140.7
DALYs (Disabi Banglad lity- esh Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	174.9	273.4	129. 1

DALYs (Disabi Cambodi lity- a Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	173.6	211.9	136.9
DALYs Democra (Disabi tic lity- Republi Adjuste c of	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	172	243. 3	119.7
DALYs (Disabi Indones lity- ia Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	al particulat e matter,	Rate	2019	171.9	209. 1	138
DALYs (Disabi lity- Palau Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	161.6	206. 6	124.7
DALYs Sao (Disabi Tome lity- and Adjuste Princip	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	160.8	204. 5	123.3
DALYs (Disabi Viet lity- Nam Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	160.3	204	84.9
DALYs (Disabi lity- Mali Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	160	204. 6	123. 2
DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	158.5	209. 1	122.7
DALYs (Disabi lity- Eritrea Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	152	193. 2	113.5
DALYs (Disabi Guinea- lity- Bissau Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	151.8	194. 6	114.1
DALYs (Disabi Philipp lity- ines Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	147.4	184. 2	116.2
DALYs (Disabi Eswatin lity- i Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	144.7	187.3	109.8

DALYs (Disabi lity- Adjuste	Kenya	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	140. 3	180. 5	110. 2
DALYs (Disabi lity- Adjuste	Ghana	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	139. 7	174. 3	95.6
DALYs (Disabi lity- Adjuste	Uganda	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	139	179.8	104.9
DALYs (Disabi lity- Adjuste	Cameroo n	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	136. 4	172.3	102.2
DALYs (Disabi lity- Adjuste	United Arab Emirate s	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	132. 8	175. 5	94.6
DALYs (Disabi lity- Adjuste	Togo	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	132.1	170. 2	102.3
DALYs (Disabi lity- Adjuste	Guinea	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	130. 8	166. 5	100.4
DALYs (Disabi lity- Adjuste	Benin	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat	Rate	2019	130. 4	165.3	102.7
DALYs (Disabi				parmona	e matter,					
lity- Adjuste	Chad	Both	Age- standar dized	Chronic obstruc tive pulmona	-	Rate	2019	130. 1	170. 4	97.8
-	Chad Niger	Both Both	standar	Chronic obstruc tive pulmona	Occupation al particulat	Rate Rate	2019 2019	130. 1 129. 3	170. 4 180	97. 8 94. 2
Adjuste DALYs (Disabi lity- Adjuste DALYs			standar dized Age- standar	Chronic obstruc tive pulmona Chronic obstruc tive	Occupation al particulat e matter, Occupation al particulat e matter,					

DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	124. 7	160.2	93.8
DALYs (Disabi Zimbabw lity- e Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	123. 8	153. 2	95. 9
DALYs (Disabi Marshal lity- l Adjuste Islands	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	122. 4	167.1	88.5
DALYs (Disabi Botswan lity- a Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	121.8	161.2	89.3
DALYs (Disabi lity- Samoa Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	121.3	159.6	92. 9
DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	120. 2	149.9	94.4
DALYs (Disabi lity- Turkey Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	117.8	147.4	88.8
DALYs (Disabi Kyrgyzs lity- tan Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	117.4	145.3	93. 7
DALYs (Disabi South lity- Sudan Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	116.2	154.3	84.8
DALYs (Disabi Sierra lity- Leone Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	114.4	149.4	86.9
DALYs (Disabi Maldive lity- s Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	113. 8	141.2	90.8
DALYs (Disabi America lity- n Samoa Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	113.4	141.4	92.1

DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	112.3	141.3	89
DALYs (Disabi lity- Gambia Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	112.2	144	86.1
DALYs (Disabi Afghani lity- stan Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	111.8	148.5	77.3
DALYs (Disabi C么te lity- d'Ivoir Adjuste e	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	111.4	140.5	86.4
DALYs (Disabi lity- Niue Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	109.6	137.3	86.5
DALYs (Disabi Ethiopi lity-a Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	109.3	134.5	85.8
DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	109. 1	139.3	87
DALYs (Disabi Malaysi lity- a Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	106.9	139.4	83
DALYs (Disabi lity- Malawi Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	106.9	129.8	85.3
DALYs United (Disabi Republi lity- c of Adjuste Tanzani	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	106.3	128.8	86.1
DALYs (Disabi litu Angola	_	Age-	Chronic obstruc	Occupation al	Rate	2019	101.6	129 9	80
lity- Angola Adjuste	Both	standar dized	tive pulmona	particulat e matter,	Mate	2015	101.0	120.0	00

DALYs (Disabi Burkina lity- Faso Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	97.3	121. 3	78.6
DALYs (Disabi Equator lity- ial Adjuste Guinea	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	95	134.7	66
DALYs (Disabi lity- Haiti Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	93.4	135.8	57.8
DALYs (Disabi Greenla lity- nd Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	93.3	116.3	71.4
DALYs (Disabi lity- Tonga Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	92.8	119	69.7
DALYs (Disabi lity- Congo Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	92.7	118	69.3
DALYs (Disabi Thailan lity- d Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	92.2	119.1	72.4
DALYs (Disabi lity- Sudan Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	91.6	128.2	60.2
DALYs (Disabi South lity- Africa Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	88.1	104.5	73. 2
DALYs (Disabi lity- Egypt Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	88	119.4	56.8
DALYs (Disabi Seychel lity- les Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	87.9	105.4	70.9
DALYs United (Disabi States lity- of Adjuste America	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	87.3	103	71.5

DALYs Norther (Disabi n lity- Mariana Adjuste Islands	Both	Age- standar dized	obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	86.4	108	68.7
DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	86.3	117.8	62.6
DALYs (Disabi lity- Nigeria Adjuste	ı Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	85.4	106.4	66. 6
DALYs (Disabi lity- Uruguay Adjuste	, Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	83.7	101.4	67.7
DALYs (Disabi lity- Adjuste	a Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	80.2	105.3	60. 7
DALYs (Disabi Cook lity- Islands Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	78.8	95.7	64.4
DALYs (Disabi Sri lity- Lanka Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	77.8	100. 9	58
DALYs (Disabi lity- Mexico Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	76.6	96.2	60
DALYs (Disabi Argenti lity- na Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	75.8	91.9	61.5
DALYs (Disabi lity- Brazil Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	75.7	89.3	62.7
DALYs (Disabi lity- Hungary Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	75.5	94.2	59. 7
DALYs (Disabi Tajikis lity- tan Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	74.2	111.1	56. 5

DALYs Bolivia (Disabi (Plurin lity- ational Adjuste State	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	73.7	99. 1	55
DALYs (Disabi lity- Armenia Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	73.2	91.8	56. 7
DALYs (Disabi Djibout lity- i Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	69.6	95. 5	48.9
DALYs (Disabi Nicarag lity- ua Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	68.9	88.2	51.3
DALYs (Disabi lity- Denmark Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	68.7	83.6	54.8
DALYs (Disabi Azerbai lity- jan Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	68.3	95.7	53. 5
DALYs (Disabi Mauriti lity- us Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	68.1	86.2	54.4
DALYs (Disabi Cabo lity- Verde Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	65	83. 3	52.8
DALYs (Disabi lity- Romania Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	65	81.9	50. 9
DALYs (Disabi lity- Morocco Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	64.6	82.9	48.9
DALYs (Disabi Saint lity- Lucia Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	62.6	78.6	49. 1
DALYs (Disabi lity- Fiji Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	62.1	82.4	46.2

DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	61.9	83. 8	45.3
DALYs (Disabi Colombi lity- a Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	61.6	79. 3	45.9
DALYs (Disabi Maurita lity- nia Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	al particulat e matter,	Rate	2019	61.6	77.5	48.5
DALYs (Disabi lity- Gabon Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	61.3	80.8	44.8
DALYs (Disabi Uzbekis lity- tan Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	60. 9	80. 7	48.1
DALYs (Disabi Brunei lity- Darussa Adjuste lam	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	60.6	78.3	45.8
DALYs (Disabi United lity- Kingdom Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	60. 1	73. 1	48.1
DALYs (Disabi lity- Cuba Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	60. 1	76.6	46.7
DALYs (Disabi lity- Belize Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	60	76. 1	47.3
DALYs (Disabi lity- Georgia Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	59.8	77.4	46.6
DALYs (Disabi lity- Bahrain Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	59. 1	74.8	45. 1
DALYs Syrian			Chronic	Occupation					

DALYs Venezue (Disabi la lity- (Boliva Adjuste rian	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	58.1	77.6	43.2
DALYs (Disabi lity- Jamaica Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	58	76.3	42.8
DALYs (Disabi Kiribat lity- i Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	56.3	74.4	40.3
DALYs (Disabi New lity- Zealand Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	55	66.8	44.4
DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	54	67.6	41.6
DALYs (Disabi lity- Tunisia Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	53.6	71.2	39.6
DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	53. 5	68	39. 9
DALYs (Disabi lity- Oman Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	53. 5	67.8	40
DALYs (Disabi Mongoli lity- a Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	53.4	71	41
DALYs (Disabi Paragua lity- y Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	53. 1	70. 7	39. 5
DALYs Iran (Disabi (Islami lity- c Adjuste Republi	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	52.7	63.4	42.7
DALYs (Disabi lity- Libya Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	52.3	67.7	38. 4

DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	51.7	66. 3	39. 3
DALYs (Disabi Saudi lity- Arabia Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	51.3	64.4	38.9
DALYs (Disabi Bulgari lity- a Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	51.3	65. 4	39. 7
DALYs Taiwan (Disabi (Provin lity- ce of Adjuste China)	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	50.3	66.2	37.9
DALYs (Disabi lity- Norway Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	50.3	61.3	38.7
DALYs (Disabi lity- Germany Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	49.7	60. 7	39.6
DALYs (Disabi Costa lity- Rica Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	49.2	65.9	36. 7
DALYs (Disabi lity- Belgium Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	49	60. 1	38.9
DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	46.7	59.3	36.4
DALYs Saint (Disabi Kitts lity- and Adjuste Nevis	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	46. 1	56. 7	37.4
DALYs (Disabi Guatema lity- la Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	46	62. 3	34.2
DALYs (Disabi lity- Andorra Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	45.7	60. 3	34. 3

DALYs (Disabi Netherl lity- ands Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	45. 4	56.2	35. 3
DALYs (Disabi Portuga lity- 1 Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	45.2	56. 5	35.4
DALYs (Disabi lity- Guam Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	44.7	57.6	34.8
DALYs (Disabi lity- Canada Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	43. 4	53.8	35
DALYs (Disabi lity- Guyana Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	43. 3	56.3	32. 5
DALYs (Disabi lity- Spain Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	43. 1	54.5	32.9
DALYs (Disabi Dominic lity- a Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	42.9	56.2	32.7
DALYs (Disabi lity- Algeria Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	42.6	56	31.5
DALYs (Disabi lity- Iceland Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	42.1	51.7	33. 2
DALYs (Disabi Austral lity- ia Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	42.1	52.2	32.9
DALYs (Disabi Russian lity- Federat Adjuste ion	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	42.1	52.2	33. 3
DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	41.4	52	32. 4

DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	40. 9	50. 1	32
DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	40.8	53.8	30. 7
DALYs (Disabi lity- Ecuador Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	40. 5	53.8	29.6
DALYs (Disabi lity- Cyprus Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	39. 7	51.3	29. 5
DALYs Dominic (Disabi an lity- Republi Adjuste c	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	39. 6	53. 1	28.9
DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	39. 1	53.8	29
DALYs (Disabi Palesti lity- ne Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	38.9	48.6	29.9
DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	38.2	47.2	30. 7
DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	37.9	46.2	30. 8
DALYs (Disabi lity- Chile Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	37.8	47.7	29. 7
DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	37.5	46. 7	29.9
DALYs (Disabi El lity- Salvado Adjuste r	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	37.1	48.9	27.7

DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	35. 3	44.8	26. 5
DALYs (Disabi Switzer lity- land Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	35	43. 1	27.8
DALYs (Disabi North lity- Macedon Adjuste ia	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	34.9	45.3	26
DALYs (Disabi Republi lity- c of Adjuste Korea	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	34.6	43. 5	26. 7
DALYs Bosnia (Disabi and lity- Herzego Adjuste vina	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	34.4	45	26
DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	33. 2	45	24.6
DALYs (Disabi Luxembo lity- urg Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	33. 2	41.3	25. 7
DALYs (Disabi Slovaki lity- a Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	32.4	42.2	24.8
DALYs (Disabi Republi lity- c of Adjuste Moldova	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	32. 3	40. 9	25. 4
DALYs (Disabi lity- Finland Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	32	39. 3	25.4
DALYs (Disabi Turkmen lity- istan Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	31. 7	46.8	23. 7
DALYs				Occupation					

DALYs (Disabi lity- Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	31.2	42.3	23
DALYs (Disabi Surinam lity- e Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	31.1	39. 6	24.4
DALYs (Disabi lity- Monaco Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	30.8	39. 6	23. 7
DALYs Saint (Disabi Vincent lity- and the Adjuste Grenadi	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	30. 7	38.6	24.1
DALYs (Disabi Trinida lity- d and Adjuste Tobago	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	30.6	41.1	22.8
DALYs (Disabi San lity- Marino Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	29.9	39. 5	21.9
DALYs (Disabi Sloveni lity- a Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	29. 1	37.7	21.7
DALYs (Disabi lity- Malta Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	28.5	36.6	21.7
DALYs (Disabi Lithuan lity- ia Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	28.1	36.2	21.6
DALYs United (Disabi States lity- Virgin Adjuste Islands	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	28	34.8	21.7
DALYs (Disabi lity- Italy Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	27.3	34. 3	21. 1
DALYs (Disabi lity- Estonia Adjuste	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	25.9	33. 8	19.8

DALYs (Disabi lity- I Adjuste	srael	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	25.4	31.9	19. 9
DALYs (Disabi lity- Adjuste	Iraq	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	24.5	31.9	18.6
DALYs (Disabi lity- Adjuste	Peru	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	23. 4	31.1	17.7
DALYs (Disabi lity- Be Adjuste	ermuda	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	22.9	29. 3	17.6
DALYs (Disabi lity- K Adjuste	uwait	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	22.7	29. 1	17.3
DALYs (Disabi Si lity- Adjuste	ngapo re	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	22.6	28.6	17.3
DALYs (Disabi lity- J Adjuste	apan	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	21.7	28.5	16.2
DALYs (Disabi lity- La Adjuste	atvia	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	21.1	27.6	16. 2
DALYs (Disabi P lity- Adjuste	uerto Rico	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	20. 9	27.2	15. 5
DALYs (Disabi lity- Ba Adjuste	hamas	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	20. 3	26.2	15.4
(DISabi	ntigua and arbuda	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	19.4	24. 7	15.2
DALYs (Disabi Ba lity- Adjuste	arbado s	Both	Age- standar dized	Chronic obstruc tive pulmona	Occupation al particulat e matter,	Rate	2019	19. 1	24.2	15

DALYs (Disabi lity- Adjuste	Both	Age- standar dized	obstruc tive	Occupation al particulat e matter,	Rate	2019	17.7	21.8	13.9
DALYs (Disabi Montene lity- gro Adjuste	Both	Age- standar dized	obstruc tive	Occupation al particulat e matter,	Rate	2019	13.2	17.1	10