

Supplementary material

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Appendix 1: Distribution of mild symptoms among COVID-19 cases in the city of Barcelona until May 4, 2020

		<u>End-of-study status</u>		
	Overall	Alive	Deceased	p
n	11210	9514	1696	
Symptoms				
Fever (%)	8506 (76.3)	7237 (76.4)	1269 (75.5)	0.379
Cough (%)	7259 (65.63)	6395 (68.0)	864 (52.2)	<0.0001
Weakness (%)	2875 (26.2)	2601 (27.9)	274 (16.8)	<0.0001
Diarrhea (%)	2675 (24.6)	2445 (26.3)	230 (14.11)	<0.0001
Headache (%)	2057 (18.9)	2015 (21.8)	42 (2.6)	<0.0001
Myalgia (%)	1917 (17.6)	1850 (19.9)	67 (4.1)	<0.0001
Chills (%)	1412 (13.1)	1316 (14.34)	96 (6.0)	<0.0001
Vomiting (%)	802 (7.4)	720 (7.8)	82 (5.1)	<0.0001
Sore throat (%)	1196 (11.1)	1153 (12.5)	43 (2.7)	<0.0001
Anosmia (%)	1591 (14.6)	1579 (17.0)	12 (0.7)	<0.0001
Dysgeusia	1095 (10.0)	1086 (11.7)	9 (0.6)	<0.0001
Other symptoms (%)	2871 (25.7)	2435 (25.6)	436 (25.7)	0.921

Values are n (%) unless otherwise specified. Symptoms could be multiple for each case.
 Percentages are calculated over the total number of cases with symptoms surveyed (n=11210).

Appendix 2: Cumulative COVID-19 incidence and mortality in the city of Barcelona by sex, age and socioeconomic status until May 4, 2020

	Population	Confirmed Cases	Cumulative Incidence per 100 000 (95%CI)	Standardized Cumulative Incidence per 100 000 (95%CI)	Hospitalizations	Hospitalization rate per 100 000 (95%CI)	Standardized Hospitalization rate per 100 000 (95%CI)	Deaths	CFR (95%CI)	Cumulative Mortality per 100 000 (95%CI)	Standardized Cumulative Mortality per 100 000 (95%CI)
Total	1641875	15545	946.8 (932-961.5)	NA	8404	511.9 (501-522.7)	NA	2287	14.7 (14.1-15.4)	139.3 (133.6-145)	NA
Age group											
0-14	199776	44	22 (15.5-28.5)	NA	13	6.5 (3-10)	NA	0	0 (0-8.84)	0 (0-8.84)	NA
15-44	635426	3372	530.7 (512.8-548.6)	NA	1050	165.2 (155.2-175.2)	NA	11	0.3 (0.1-0.5)	1.7 (0.7-2.8)	NA
45-64	450247	4443	986.8 (957.8-1015.8)	NA	2494	553.9 (532.2-575.7)	NA	109	2.5 (2-2.9)	24.2 (19.7-28.8)	NA
65-74	167105	1861	1113.7 (1063.1-1164.3)	NA	1486	889.3 (844-934.5)	NA	290	15.6 (13.6-17.5)	173.5 (153.6-193.5)	NA
75-84	118962	2421	2035.1 (1954-2116.2)	NA	1686	1417.3 (1349.6-1484.9)	NA	698	28.8 (26.3-31.4)	586.7 (543.2-630.3)	NA
85+	70359	3404	4838 (4675.5-5000.6)	NA	1675	2380.6 (2266.6-2494.7)	NA	1179	34.6 (32.2-37.1)	1675.7 (1580-1771.3)	NA
Sex*											
Females	864151	9023	1044.1 (1022.6-1065.7)	968.9 (948.9-988.9)*	4091	473.4 (458.9-487.9)	434.2 (420.9-447.6)*	1165	12.9 (12.1-13.7)	134.8 (127.1-142.6)	110.4 (104.1-116.7)*
Males	777724	6522	838.6 (818.1-859.0)	927.9 (905.3-950.5)*	4313	554.6 (538.0-571.2)	621.2 (602.5-639.8)*	1122	17.2 (16.1-18.3)	144.3 (135.8-152.7)	185.4 (174-196)*
SES											
Low	316376	3029	957.4 (923.3-991.5)	1010.9 (975.1-1046.7)	1837	580.6 (554.1-607.2)	619.4 (591.1-647.6)	418	13.8 (12.4-15.2)	132.1 (119.5-144.8)	150.2 (135.9-164.6)
0-14	41701	5	12 (1.5-22.5)	NA	3	7.2 (-0.9-15.3)	NA	0	0 (0-8.84)	0 (0-8.84)	NA
15-44	129160	744	576 (534.6-617.4)	NA	301	233 (206.7-259.4)	NA	3	0.4 (-0.1-0.9)	2.3 (-0.3-5)	NA
45-64	85373	948	1110.4 (1039.7-1181.1)	NA	604	707.5 (651.1-763.9)	NA	24	2.5 (1.5-3.6)	28.1 (16.9-39.4)	NA

65-74	27312	336	1230.2 (1098.7- 1361.8)	NA	278	1017.9 (898.2- 1137.5)	NA	56	16.7 (11.9- 21.4)	205 (151.3- 258.7)	NA
75-84	21624	508	2349.2 (2144.9- 2553.5)	NA	385	1780.4 (1602.6- 1958.3)	NA	155	30.5 (24.7- 36.3)	716.8 (604- 829.6)	NA
85+	11206	488	4354.8 (3968.4- 4741.2)	NA	266	2373.7 (2088.5- 2659)	NA	180	36.9 (30.1- 43.7)	1606.3 (1371.6- 1840.9)	NA
Med-Low	399309	3973	994.7(963.7- 1025.6)	993.0 (962.5- 1023.6)	2069	518.1 (495.8- 540.5)	517.7 (495.5- 539.9)	580	14.6 (13.3- 15.9)	145.3 (133.4- 157.1)	145.6 (133.8- 157.4)
0-14	47195	12	25.4 (11- 39.8)	NA	4	8.5 (0.2-16.8)	NA	0	0 (0- 8.84)	0 (0-8.84)	NA
15-44	155522	802	515.7 (480.0- 551.4)	NA	245	157.5 (137.8- 177.3)	NA	0	0 (0- 8.84)	0 (0-8.84)	NA
45-64	110815	1107	999 (940.1- 1057.8)	NA	626	564.9 (520.7- 609.2)	NA	29	2.6 (1.7- 3.6)	26.2 (16.6- 35.7)	NA
65-74	39369	456	1158.3 (1052.0- 1264.6)	NA	349	886.5 (793.5- 979.5)	NA	72	15.8 (11.8- 19.8)	182.9 (140.6- 225.1)	NA
75-84	29427	648	2202.1 (2032.5- 2371.6)	NA	435	1478.2 (1339.3- 1617.2)	NA	173	26.7 (22.1- 31.3)	587.9 (500.3- 675.5)	NA
85+	16981	947	5576.8 (5221.6- 5932.0)	NA	410	2414.5 (2180.7- 2648.2)	NA	306	32.3 (27.9- 36.8)	1802 (1600.1- 2003.9)	NA
Med-High	459681	4478	974.2 (945.6- 1002.7)	968 (940- 996.1)	2417	525.8 (504.8- 546.8)	522.3 (501.6- 543)	669	14.9 (13.7- 16.2)	145.5 (134.5- 156.6)	145.3 (134.4- 156.3)
0-14	52313	9	17.2 (6-28.4)	NA	0	0 (0-8.84)	NA	0	0 (0- 8.84)	0 (0-8.84)	NA
15-44	179807	973	541.1 (507.1- 575.1)	NA	293	163 (144.3- 181.6)	NA	5	0.5 (0.1- 1)	2.8 (0.3-5.2)	NA
45-64	126690	1275	1006.4 (951.2- 1061.6)	NA	705	556.5 (515.4- 597.6)	NA	34	2.7 (1.8- 3.6)	26.8 (17.8- 35.9)	NA
65-74	48704	569	1168.3 (1072.3- 1264.3)	NA	465	954.7 (868- 1041.5)	NA	88	15.5 (12- 19)	180.7 (142.9- 218.4)	NA
75-84	32280	629	1948.6 (1796.3-	NA	436	1350.7 (1223.9- 1477.5)	NA	188	29.9 (24.8-35)	582.4 (499.2-	NA

			2100.9)							665.7)	
85+	19887	1023	5144.1 (4828.8- 5459.3)	NA	518	2604.7 (2380.4- 2829)	NA	354	34.6 (30.1- 39.1)	1780.1 (1594.6- 1965.5)	NA
High	466509	3778	809.8(784.0- 835.6)	783.9(759.1- 808.9)	1955	419.1 (400.5- 437.6)	400 (382.3- 417.7)	615	16.3 (14.9- 17.7)	131.8 (121.4- 142.2)	121.2 (111.6- 130.7)
0-14	58567	13	22.2 (10.1- 34.3)	NA	3	5.1 (-0.7-10.9)	NA	0	0 (0- 8.84)	0 (0-8.84)	NA
15-44	170937	707	413.6 (383.1- 444.1)	NA	167	97.7 (82.9- 112.5)	NA	2	0.3 (-0.1- 0.7)	1.2 (-0.5-2.8)	NA
45-64	127369	1049	823.6 (773.8- 873.4)	NA	523	410.6 (375.4- 445.8)	NA	22	2 (1.1- 2.9)	17.3 (10.1- 24.5)	NA
65-74	51720	479	926.1 (843.2- 1009.1)	NA	376	727 (653.5- 800.5)	NA	74	15.4 (11.6- 19.3)	143.1 (110.5- 175.7)	NA
75-84	35631	618	1734.4 (1597.7- 1871.2)	NA	418	1173.1 (1060.7- 1285.6)	NA	180	29.1 (24.1- 34.2)	505.2 (431.4-579)	NA
85+	22285	912	4092.4 (3826.8- 4358)	NA	468	2100.1 (1909.8- 2290.3)	NA	337	37 (32- 41.9)	1512.2 (1350.8- 1673.7)	NA
Females- SES											
Low	159706	1703	1066.3 (1015.7- 1161.9)	1050.9 (1001.3- 1100.4)	890	557.3 (520.7- 593.9)	549.9 (513.9- 585.9)	208	12.2 (10.4-14)	130.2 (112.5- 147.9)	121.2 (104.8- 137.7)
0-14	20288	3	14.8 (-1.9- 31.5)	NA	1	4.9 (4.7-14.6)	NA	0	0 (0- 8.84)	0 (0-8.84)	NA
15-44	61397	446	726.4 (659- 793.8)	NA	151	245.9 (206.7- 285.2)	NA	1	0.2 (-0.2- 0.7)	1.6 (1.6-4.8)	NA
45-64	42496	501	1178.9 (1075.7- 1282.2)	NA	270	635.4 (559.6- 711.1)	NA	7	1.4 (0.4- 2.4)	16.5 (4.3- 28.7)	NA
65-74	15166	167	1101.1 (934.1- 1268.2)	NA	140	923.1 (770.2- 1076)	NA	25	15 (8.6- 21.3)	164.8 (100.2- 229.5)	NA
75-84	12835	238	1854.3 (1618.7- 2089.9)	NA	172	1340.1 (1139.8- 1540.4)	NA	68	28.6 (20.5- 36.6)	529.8 (403.9- 655.7)	NA
85+	7524	348	4625.2 (4139.2- 5111.2)	NA	156	2073.4 (1748- 2398.7)	NA	107	30.7 (23.7- 37.7)	1422.1 (1152.7- 1691.6)	NA

Medium-Low	209026	2334	1116.6 (1071.3- 1161.9)	1027.8 (986.2- 1069.3)	997	477 (447.4- 506.6)	437 (409.8- 464.2)	303	13 (11.4- 14.5)	145 (128.6- 161.3)	118.8 (105.5- 132.2)
0-14	22927	4	17.4 (0.3- 34.5)	NA	1	4.4 (4.2-12.9)	NA	0	0 (0- 8.84)	0 (0-8.84)	NA
15-44	77936	495	635.1 (579.2- 691.1)	NA	108	138.6 (112.4- 164.7)	NA	0	0 (0- 8.84)	0 (0-8.84)	NA
45-64	57075	608	1065.3 (980.6- 1149.9)	NA	283	495.8 (438.1- 553.6)	NA	10	1.6 (0.6- 2.7)	17.5 (6.7- 28.4)	NA
65-74	22123	209	944.7 (816.6- 1072.8)	NA	153	691.6 (582- 801.2)	NA	25	12 (7-17)	113 (68.7- 157.3)	NA
75-84	17348	329	1896.5 (1691.5- 2101.4)	NA	200	1152.9 (993.1- 1312.7)	NA	75	22.8 (16.9- 28.7)	432.3 (334.5- 530.2)	NA
85+	11617	689	5931 (5488.1- 6373.8)	NA	252	2169.2 (1901.4- 2437.1)	NA	193	28 (23.4- 32.7)	1661.4 (1427- 1895.7)	NA
Medium-High	243898	2641	1082.8 (1041.5- 1124.1)	996.3 (958.4- 1034.2)	1186	486.3 (458.6- 513.9)	441.4 (416.2- 466.6)	334	12.6 (11.2- 14.1)	136.9 (122.3- 151.6)	111.6 (99.7- 123.6)
0-14	25378	5	19.7 (2.4-37)	NA	0	0 (0-8.84)	NA	0	0 (0- 8.84)	0 (0-8.84)	NA
15-44	91350	586	641.5 (589.5- 693.4)	NA	138	151.1 (125.9- 176.3)	NA	2	0.3 (-0.1- 0.8)	2.2 (0.8-5.2)	NA
45-64	66751	708	1060.7 (982.5- 1138.8)	NA	313	468.9 (417- 520.9)	NA	9	1.3 (0.4- 2.1)	13.5 (4.7- 22.3)	NA
65-74	27451	264	961.7 (845.7- 1077.7)	NA	205	746.8 (644.6- 849)	NA	32	12.1 (7.6- 16.6)	116.6 (76.2- 157)	NA
75-84	19170	328	1711 (1525.8- 1896.2)	NA	204	1064.2 (918.1- 1210.2)	NA	72	22 (16.2- 27.7)	375.6 (288.8- 462.3)	NA
85+	13798	750	5435.6 (5046.6- 5824.6)	NA	326	2362.7 (2106.2- 2619.1)	NA	219	29.2 (24.6- 33.8)	1587.2 (1377- 1797.4)	NA
High	251521	2177	865.5 (829.2- 901.9)	777.4 (744.5- 810.3)	953	378.9 (354.8- 403)	329.2 (308.1- 350.2)	318	14.6 (12.9- 16.3)	126.4 (112.5- 140.3)	95.9 (85.3- 106.5)
0-14	28587	6	21 (4.2-37.8)	NA	2	7 (2.7-16.7)	NA	0	0 (0- 8.84)	0 (0-8.84)	NA
15-44	88460	432	488.4 (442.3-	NA	79	89.3 (69.6-109)	NA	1	0.2 (-0.2-	1.1 (1.1-3.3)	NA

			534.4)						0.7)		
45-64	68402	550	804.1 (736.9-871.3)	NA	226	330.4 (287.3-373.5)	NA	4	0.7 (0-1.4)	5.8 (0.1-11.6)	NA
65-74	29211	206	705.2 (608.9-801.5)	NA	158	540.9 (456.6-625.2)	NA	27	13.1 (7.8-18.4)	92.4 (57.6-127.3)	NA
75-84	21331	350	1640.8 (1468.9-1812.7)	NA	211	989.2 (855.7-1122.6)	NA	87	24.9 (18.8-30.9)	407.9 (322.2-493.6)	NA
85+	15530	633	4076 (3758.5-4393.5)	NA	277	1783.6 (1573.6-1993.7)	NA	199	31.4 (26.2-36.7)	1281.4 (1103.4-1459.4)	NA
Males-SES											
Low	159706	1326	846.4 (800.8-891.9)	984.4 (930-1038)	947	604.5 (-566-643)	719.7 (673-766)	210	15.8 (13.5-18.2)	134 (115.9-152.2)	194.7 (168-221)
0-14	20288	2	9.3 (-3.6-22.3)	NA	2	9.3 (3.6-22.3)	NA	0	0 (0-8.84)	0 (0-8.84)	NA
15-44	61397	298	439.8 (389.8-489.7)	NA	150	221.4 (-185.9-256.8)	NA	2	0.7 (-0.3-1.6)	3 (-1.1-7)	NA
45-64	42496	447	1042.5 (945.9-1139.2)	NA	334	779 (-695.4-862.5)	NA	17	3.8 (2-5.6)	39.6 (20.8-58.5)	NA
65-74	15166	169	1391.4 (1181.6-1601.2)	NA	138	1136.2 (-946.6-1325.7)	NA	31	18.3 (11.2-25.5)	255.2 (165.4-345.1)	NA
75-84	12835	270	3072 (2705.6-3438.5)	NA	213	2423.5 (-2098-2749)	NA	87	32.2 (24-40.4)	989.9 (781.9-1197.9)	NA
85+	7524	140	3802.3 (3172.4-4432.1)	NA	110	2987.5 (-2429.2-3545.8)	NA	73	52.1 (34.9-69.4)	1982.6 (1527.8-2437.4)	NA
Medium-Low	209026	1639	861.3 (819.6-903)	955.5 (909-1002)	1072	563.4 (-529.6-597.1)	627.7 (590-666)	277	16.9 (14.7-19.1)	145.6 (128.4-162.7)	186.5 (164-209)
0-14	22927	8	33 (10.1-55.8)	NA	3	12.4 (1.6-26.4)	NA	0	0 (0-8.84)	0 (0-8.84)	NA
15-44	77936	307	395.7 (351.4-440)	NA	137	176.6 (-147-206.1)	NA	0	0 (0-8.84)	0 (0-8.84)	NA
45-64	57075	500	930.4 (848.9-1012)	NA	343	638.3 (-570.7-705.8)	NA	19	3.8 (2.1-5.5)	35.4 (19.5-51.3)	NA
65-74	22123	247	1432.2 (1253.6-	NA	196	1136.5 (-977.4-1295.6)	NA	47	19 (13-25.1)	272.5 (194.6-	NA

			1610.8)							350.4)	
75-84	17348	319	2640.9 (2351.1- 2930.8)	NA	235	1945.5 (-1696.8- 2194.3)	NA	98	30.7 (23.4-38)	811.3 (650.7-972)	NA
85+	11617	258	4809.8 (4222.9- 5396.8)	NA	158	2945.6 (-2486.3- 3404.9)	NA	113	43.8 (33- 54.6)	2106.6 (1718.2- 2495.1)	NA
Medium- High	243898	1837	851.3 (812.4- 890.2)	935.1 (892- 978)	1231	570.5 (538.6- 602.3)	635 (599-671)	335	18.2 (16.1- 20.4)	155.2 (138.6- 171.9)	198.7 (177- 220)
0-14	25378	4	14.9 (0.3- 29.4)	NA	0	0 (0-8.84)	NA	0	0 (0- 8.84)	0 (0-8.84)	NA
15-44	91350	387	437.5 (393.9- 481.1)	NA	155	175.2 (147.6- 202.8)	NA	3	0.8 (-0.1- 1.7)	3.4 (-0.4-7.2)	NA
45-64	66751	567	946 (868.1- 1023.8)	NA	392	654 (589.3- 718.7)	NA	25	4.4 (2.6- 6.2)	41.7 (25.4- 58.1)	NA
65-74	27451	305	1435.1 (1274- 1596.2)	NA	260	1223.4 (1074.7- 1372.1)	NA	56	18.4 (13- 23.7)	263.5 (194.5- 332.5)	NA
75-84	19170	301	2296 (2036.6- 2555.3)	NA	232	1769.6 (1541.9- 1997.4)	NA	116	38.5 (29.6- 47.5)	884.8 (723.8- 1045.8)	NA
85+	13798	273	4483.5 (3951.6- 5015.3)	NA	192	3153.2 (2707.2- 3599.3)	NA	135	49.5 (37.7- 61.2)	2217.1 (1843.1- 2591.1)	NA
High	251521	1601	744.7 (708.2- 781.2)	800.2 (761- 839)	1002	466.1 (-437.2- 494.9)	504.4 (473-536)	297	18.6 (16.2- 20.9)	138.1 (122.4- 153.9)	164.8 (146- 184)
0-14	28587	7	23.3 (6.1- 40.6)	NA	1	3.3 (3.2-9.9)	NA	0	0 (0- 8.84)	0 (0-8.84)	NA
15-44	88460	275	333.4 (294- 372.8)	NA	88	106.7 (-84.4- 129)	NA	1	0.4 (-0.4- 1.1)	1.2 (-1.2-3.6)	NA
45-64	68402	499	846.2 (772- 920.5)	NA	297	503.7 (-446.4- 561)	NA	18	3.6 (1.9- 5.3)	30.5 (16.4- 44.6)	NA
65-74	29211	273	1212.8 (1069- 1356.7)	NA	218	968.5 (-839.9- 1097.1)	NA	47	17.2 (11.8- 22.6)	208.8 (149.1- 268.5)	NA
75-84	21331	268	1874.1 (1649.7- 2098.5)	NA	207	1447.6 (-1250.4- 1644.8)	NA	93	34.7 (26- 43.4)	650.3 (518.2- 782.5)	NA
85+	15530	279	4130.3 (3645.6- 4614.9)	NA	191	2827.5 (-2426.5- 3228.5)	NA	138	49.5 (37.9- 61.1)	2042.9 (1702.1- 2383.8)	NA

Population data obtained from the central insured registry of Catalonia, as of 2020. SES was unavailable for 294 cases, of which 6 were deaths. Standardized mortality and hospitalization rates for age and sex were calculated using Barcelona's population as reference. *Sex was standardized for age only. 95%CI=95% confidence intervals; CFR=Case fatality rate; NA=Not Applicable; SES=socioeconomic status; Med-Low=Medium-low category; Med-High=Medium-high category.

