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Supplementary appendix

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Supplement to: Banerjee A, Pasea L, Harris S, et al. Estimating excess 1-year mortality associated with the COVID-19 pandemic according to underlying conditions and age: a population-based cohort study. Lancet 2020; published online May 12. http://dx.doi. org/10.1016/S0140-6736(20)30854-0.

Suppl Table 1. High-risk mortality groups for COVID-19 infection in 3,862,012 individuals by age and gender.

	Men Age ≤70 years N=1696728	Men Age>70 years N=207349	Women Age≤70 years N=1634552	Women Age>70 years N=323383	
Demographics					
Age (years), mean (SD)	43.5 (11.66)	78.1 (6.11)	43.5 (11.91)	80.2 (7.03)	
IMD quintile					
1 (Least deprived)	384993 (22.7)	45735 (22.1)	382183 (23.4)	69913 (21.6)	
2	368204 (21.7)	47890 (23.1)	362914 (22.2)	74205 (22.9)	
3	353908 (20.9)	45247 (21.8)	344154 (21.1)	71130 (22)	
4	317818 (18.7)	37921 (18.3)	298922 (18.3)	59482 (18.4)	
5 (Most deprived)	270037 (15.9)	30326 (14.6)	244771 (15)	48276 (14.9)	
Practice region					
East Midlands	54965 (3.2)	6669 (3.2)	51993 (3.2)	9924 (3.1)	
East Of England	196981 (11.6)	23810 (11.5)	188834 (11.6)	36366 (11.2)	
London	297576 (17.5)	27188 (13.1)	289471 (17.7)	43033 (13.3)	
North East	33062 (1.9)	4134 (2)	31491 (1.9)	6241 (1.9)	
North West	230831 (13.6)	26459 (12.8)	217496 (13.3)	42577 (13.2)	
South Central	218027 (12.8)	26705 (12.9)	210615 (12.9)	42158 (13)	
South East Coast	213015 (12.6)	28402 (13.7)	208722 (12.8)	43896 (13.6)	
South West	203035 (12)	31265 (15.1)	197035 (12.1)	47706 (14.8)	
West Midlands	183652 (10.8)	23857 (11.5)	173924 (10.6)	37433 (11.6)	
Yorkshire & The Humber	65584 (3.9)	8860 (4.3)	64971 (4)	14049 (4.3)	
Risk factors recommende	ed for social isolat	tion			
CVD	45650 (2.7)	38158 (18.4)	29668 (1.8)	45593 (14.1)	
Diabetes (any type)	42901 (2.5)	17928 (8.6)	29791 (1.8)	21048 (6.5)	
Chronic kidney disease	8202 (0.5)	15036 (7.3)	10136 (0.6)	26023 (8)	
COPD	8990 (0.5)	9763 (4.7)	7475 (0.5)	8778 (2.7)	
BMI>40*	8241 (1.9)	443 (0.7)	21042 (3.7)	1447 (1.6)	
Corticosteroid rx	28935 (1.7)	12215 (5.9)	43894 (2.7)	20934 (6.5)	
N risk factors					
0	1574734 (92.8)	138916 (67)	1512639 (92.5)	229571 (71)	
1	104205 (6.1)	48663 (23.5)	104972 (6.4)	69704 (21.6)	
2	15049 (0.9)	15217 (7.3)	14230 (0.9)	19082 (5.9)	
≥3	2740 (0.2)	4553 (2.2)	2711 (0.2)	5026 (1.6)	
Other risk factors					
Hypertension	134650 (7.9)	66955 (32.3)	113473 (6.9)	101135 (31.3)	
ACE inhibitor rx	73513 (4.3)	38847 (18.7)	50299 (3.1)	52263 (16.2)	
NSAID rx	204502 (12.1)	40412 (19.5)	262563 (16.1)	71611 (22.1)	

^{*}BMI data available for 425782, 65549, 567034 and 89631 patients in the respective categories

Suppl Table 2: High-risk mortality groups for COVID-19 infection in 3,862,012 individuals by underlying cardiovascular disease, diabetes, chronic kidney disease and chronic obstructive pulmonary disease.

							Ι	
	No CVD	CVD	No DM	DM	No CKD	CKD	No COPD	COPD
	N=3702943	N=159069	N=3750344	N=111668	N=3802615	N=59397	N=3827006	N=35006
Demographics								
Age (years), mean (SD)	47.5 (16.2)	68.9 (15.1)	48.0 (16.5)	62.5 (15.8)	48.0 (16.4)	74.5 (13.9)	48.2 (16.6)	70.0 (12.0)
Women	1882674 (50.8)	75261 (47.3)	1907096 (50.9)	50839 (45.5)	1921776 (50.5)	36159 (60.9)	1941682 (50.7)	16253 (46.4)
IMD quintile								
1 (Least deprived)	852344 (23)	30480 (19.2)	863864 (23)	18960 (17)	870934 (22.9)	11890 (20)	878254 (22.9)	4570 (13.1)
2	818130 (22.1)	35083 (22.1)	830392 (22.1)	22821 (20.4)	839787 (22.1)	13426 (22.6)	847030 (22.1)	6183 (17.7)
3	780150 (21.1)	34289 (21.6)	790522 (21.1)	23917 (21.4)	801513 (21.1)	12926 (21.8)	807186 (21.1)	7253 (20.7)
4	683280 (18.5)	30863 (19.4)	690516 (18.4)	23627 (21.2)	702791 (18.5)	11352 (19.1)	706051 (18.4)	8092 (23.1)
5 (Most deprived)	565213 (15.3)	28197 (17.7)	571159 (15.2)	22251 (19.9)	583638 (15.3)	9772 (16.5)	584546 (15.3)	8864 (25.3)
Practice region								
East Midlands	117034 (3.2)	6517 (4.1)	120284 (3.2)	3267 (2.9)	122424 (3.2)	1127 (1.9)	122539 (3.2)	1012 (2.9)
East Of England	428720 (11.6)	17271 (10.9)	434154 (11.6)	11837 (10.6)	440118 (11.6)	5873 (9.9)	442772 (11.6)	3219 (9.2)
London	638219 (17.2)	19049 (12)	635511 (16.9)	21757 (19.5)	645274 (17)	11994 (20.2)	652256 (17)	5012 (14.3)
North East	70863 (1.9)	4065 (2.6)	73103 (1.9)	1825 (1.6)	74157 (2)	771 (1.3)	73814 (1.9)	1114 (3.2)
North West	491655 (13.3)	25708 (16.2)	502994 (13.4)	14369 (12.9)	509907 (13.4)	7456 (12.6)	510965 (13.4)	6398 (18.3)
South Central	478376 (12.9)	19129 (12)	483848 (12.9)	13657 (12.2)	490230 (12.9)	7275 (12.2)	493624 (12.9)	3881 (11.1)
South East Coast	475437 (12.8)	18598 (11.7)	478353 (12.8)	15682 (14)	486524 (12.8)	7511 (12.6)	489787 (12.8)	4248 (12.1)
South West	455024 (12.3)	24017 (15.1)	464293 (12.4)	14748 (13.2)	470063 (12.4)	8978 (15.1)	474405 (12.4)	4636 (13.2)
West Midlands	401024 (10.8)	17842 (11.2)	407566 (10.9)	11300 (10.1)	412622 (10.9)	6244 (10.5)	414886 (10.8)	3980 (11.4)
Yorkshire & The Humber	146591 (4)	6873 (4.3)	150238 (4)	3226 (2.9)	151296 (4)	2168 (3.7)	151958 (4)	1506 (4.3)
Risk factors recommende	d for social isolation	on						
CVD	0 (0)	159069 (100)	139671 (3.7)	19398 (17.4)	142439 (3.7)	16630 (28)	149642 (3.9)	9427 (26.9)
Diabetes (any type)	92270 (2.5)	19398 (12.2)	0 (0)	111668 (100)	98536 (2.6)	13132 (22.1)	107908 (2.8)	3760 (10.7)
Chronic kidney disease	42767 (1.2)	16630 (10.5)	46265 (1.2)	13132 (11.8)	0 (0)	59397 (100)	56039 (1.5)	3358 (9.6)
COPD	25579 (0.7)	9427 (5.9)	31246 (0.8)	3760 (3.4)	31648 (0.8)	3358 (5.7)	0 (0)	35006 (100)
BMI>40*	28849 (2.7)	2324 (2.9)	25456 (2.4)	5717 (6.9)	30006 (2.7)	1167 (3.4)	30583 (2.7)	590 (3.3)
Corticosteroid rx	93768 (2.5)	12210 (7.7)	99573 (2.7)	6405 (5.7)	100144 (2.6)	5834 (9.8)	91539 (2.4)	14439 (41.2)
N risk factors								
0	3455860 (93.3)	0 (0)	3455860 (92.1)	0 (0)	3455860 (90.9)	0 (0)	3455860 (90.3)	0 (0)
1	214287 (5.8)	113257 (71.2)	252996 (6.7)	74548 (66.8)	297877 (7.8)	29667 (49.9)	314831 (8.2)	12713 (36.3)
2	29714 (0.8)	33864 (21.3)	35760 (1)	27818 (24.9)	42380 (1.1)	21198 (35.7)	48624 (1.3)	14954 (42.7
≥3	3082 (0.1)	11948 (7.5)	5728 (0.2)	9302 (8.3)	6498 (0.2)	8532 (14.4)	7691 (0.2)	7339 (21)
Other risk factors								
Hypertension	332751 (9)	83462 (52.5)	355583 (9.5)	60630 (54.3)	378532 (10)	37681 (63.4)	402966 (10.5)	13247 (37.8
ACE inhibitor rx	162700 (4.4)	52222 (32.8)	172910 (4.6)	42012 (37.6)	191583 (5)	23339 (39.3)	207045 (5.4)	7877 (22.5)
NSAID rx	542395 (14.6)	36693 (23.1)	553123 (14.7)	25965 (23.3)	565096 (14.9)	13992 (23.6)	571656 (14.9)	7432 (21.2)

^{*}BMI data available for 1067854 patients with no CVD, 80142 patients with CVD, 1064775 with no DM, 83221 with DM, 1113396 with no CKD, 34600 with CKD, 1130189 with no COPD and 17807 with COPD

COPD: Chronic obstructive pulmonary disease, CKD: Chronic kidney disease, CVD: cardiovascular disease, DM: diabetes mellitus