

Supplementary File**Supplemental Table 1: COVID-19 hospitalisation and mortality by demographics and medical conditions, 1 March – 30 April 2020**

Category	Cohort:	Hospitalisations:	Deaths:
Total	4,392,014 (100%)	5,519 (100%)	2,693 (100%)
Sex:			
Male	2,117,752 (48.22 %)	2,919 (52.89 %)	1,402 (52.06%)
Female	2,274,262 (51.78 %)	2,600 (47.11 %)	1,291 (47.94%)
Age band:			
19-29	779,120 (17.74 %)	109 (1.97 %)	1 (0.04%)
30-39	722,944 (16.46 %)	206 (3.73 %)	6 (0.22%)
40-49	676,503 (15.40 %)	402 (7.28 %)	33 (1.23 %)
50-59	791,298 (18.02 %)	875 (15.85 %)	111 (4.12%)
60-69	651,244 (14.83 %)	933 (16.91 %)	218 (8.10 %)
70-79	481,239 (10.96 %)	1,245 (22.56 %)	661 (24.55 %)
80-89	240,395 (5.47 %)	1,323 (23.97 %)	1,087(40.36%)
90+	49,271 (1.12 %)	426 (7.72 %)	576 (21.39 %)
BMI (integer):			
0-19	112,163 (2.55 %)	184 (3.33 %)	133 (4.94%)
20-24	631,075 (14.37 %)	717 (12.99 %)	446 (16.56 %)
25-29	788,663 (17.96 %)	1,157 (20.96 %)	474 (17.60 %)
30-34	447,812 (10.20 %)	859 (15.56 %)	283 (10.51 %)
35-39	19,106 (4.35 %)	432 (7.83 %)	124 (4.60 %)
40-51	103,436 (2.36 %)	280 (5.07 %)	55 (2.04 %)
Missing	2,289,759 (52.13%)	1,890 (34.35%)	1,535 (57.00)
Townsend Deprivation Score Quintile:			
1 (most affluent)	879,499 (20.02 %)	843 (15.27 %)	387 (14.37 %)
2	878,397 (20.00 %)	991 (17.96 %)	525 (19.49 %)
3	874,417 (19.91%)	1,095 (19.84 %)	589 (21.87 %)
4	869,324 (19.79 %)	1,222 (22.14 %)	495 (18.38 %)

5 (least affluent)	864,246 (19.68 %)	1,326 (24.03 %)	660 (24.51 %)
Missing	26,221 (0.60%)	42 (0.76%)	37 (1.37%)
Chronic Kidney Disease:			
No CKD	4,248,993 (96.74 %)	4,586 (83.09 %)	2,058 (76.42%)
CKD 3	133,142 (3.03 %)	823 (14.91 %)	565 (20.98 %)
CKD 4	5,683 (0.13%)	53 (0.96 %)	45 (1.67 %)
CKD 5	4,197 (0.1%)	57 (1.03 %)	25 (0.93 %)
Atrial Fibrillation	97,204 (2.21%)	577 (10.45%)	375 (13.92%)
Asthma	503,416 (11.46%)	797 (14.44%)	209 (7.76%)
Blood cancer	19,421 (0.44%)	105 (1.90%)	43 (1.60%)
Congestive Cardiac Failure	44,168(1.01%)	319 (5.78%)	184 (6.83%)
Cerebral Palsy	5,255 (0.12%)	13 (0.24%)	4 (0.15%)
Coronary heart disease	184,136 (4.19%)	846 (15.33%)	540 (20.05%)
Liver cirrhosis	21, 556 (0.49%)	77 (1.40%)	32 (1.19%)
Congenital heart disease	34,020 (0.77%)	104 (1.88%)	49 (1.82%)
COPD	122,428 (2.79%)	575 (10.42%)	341 (12.66%)
Dementia	37,181 (0.85%)	400 (7.25%)	749 (27.81%)
Diabetes Type 1	19,282 (0.44%)	49 (0.89%)	13 (0.48%)
Diabetes Type 2	233,889 (5.33%)	1,059 (19.19%)	474 (17.6%)
Epilepsy	57,233 (1.30%)	142 (2.57%)	70 (2.60%)
Hip, wrist, spine, humerus fracture	169,547 (3.86%)	557 (10.09%)	437 (16.23%)
Neurological conditions	16,456 (0.37%)	52 (0.94%)	24 (0.89%)
Parkinson's	9,106 (0.21%)	92(1.67%)	80 (2.97%)
Pulmonary hypertension	8,298 (0.19%)	68 (1.23%)	45 (1.67%)
Cystic fibrosis, bronchiectasis or alveolitis.	21,104 (0.48%)	103 (1.87%)	44 (1.63%)
Peripheral vascular disease	40,279 (0.92%)	210 (3.81%)	126 (4.68%)
SLE or rheumatoid arthritis	42,343 (0.96%)	143 (2.59%)	59 (2.19%)
Lung, oral cancer	10,212 (0.23%)	80 (1.45%)	44 (1.63%)
Severe mental illness	486,310 (11.07%)	902 (16.34%)	364 (13.52%)
Sickle cell disease or combined immune deficiency	2,706(0.6%)	6 (0.11%)	1 (0.04%)

syndrome			
Stroke, transient ischaemic attack	110,004 (2.50%)	648 (11.74%)	452 (16.78%)
Venous thromboembolism	68,763 (1.57%)	332 (6.02%)	181 (6.72%)

BMI - body mass index, COPD – chronic obstructive pulmonary disease, SLE - systemic lupus erythematosus, motor neurone disease, multiple sclerosis, myaesthesia, or Huntingtons's chorea.

Supplemental Table 2: Covid-19 hospitalisation and mortality by demographics and medical conditions, 1 May – 30 June 2020

Category:	Cohort:	Hospitalisations:	Deaths:
Total	4,382,821	5,446	1,300
Sex:			
Male	2,113,159 (48.21 %)	2,690 (49.39 %)	599 (46.08%)
Female	2,269,662 (51.79 %)	2,756 (50.61 %)	701 (53.92%)
Age band:			
19-29	778,219 (17.76 %)	149 (2.74 %)	0 (0.00%)
30-39	722,60 (16.48 %)	260 (4.77 %)	1 (0.08%)
40-49	676,027 (15.42 %)	473 (8.69 %)	17 (1.31 %)
50-59	790,64 (18.04 %)	977 (17.94 %)	38 (2.92 %)
60-69	650,315 (14.84 %)	971 (17.83 %)	94 (7.23 %)

70-79	479,512 (10.94 %)	1,095 (20.11 %)	268 (20.62%)
80-89	237,794 (5.43 %)	1,156 (21.23 %)	519 (39.92%)
90+	48,054 (1.10 %)	365 (6.70 %)	363 (27.92%)
BMI (integer):			
0-19	111,507 (2.54 %)	206 (3.78 %)	99 (7.62 %)
20-24	629,181 (14.36%)	722 (13.26 %)	224 (17.23%)
25-29	786,739 (17.95 %)	1,167 (21.43 %)	239 (18.38%)
30-34	446,822 (10.19 %)	873 (16.03 %)	149 (11.46%)
35-39	190,695 (4.35 %)	439 (8.06 %)	52 (4.00 %)
40-51	103,238 (2.36 %)	297 (5.45 %)	28 (2.15 %)
Missing	2,114,639 (48.25%)	3,704 (68.01)	791 (60.85%)
Townsend Deprivation Score Quintile:			
1 (most affluent)	878,046 (20.03 %)	861 (15.81 %)	226 (17.38%)
2	876,583 (20.00 %)	958 (17.59 %)	275 (21.15%)
3	872,528 (19.91%)	1,056 (19.39 %)	285 (21.92%)
4	867,483 (19.79 %)	1,231 (22.60 %)	241 (18.54%)
5 (least affluent)	862,162 (19.67 %)	1,312 (24.09 %)	256 (19.69%)
Missing	26,019 (0.59%)	28 (0.51%)	17 (1.30%)
Chronic Kidney Disease:			
No CKD	4,241,17 (96.78%)	4,563 (83.79%)	974 (74.92%)
CKD 3	131,656 (3.00%)	780 (14.32%)	293 (22.54%)
CKD 4	5,561 (0.13%)	52 (0.95%)	25 (1.92%)
CKD 5	4,128 (0.09%)	51 (0.94%)	8 (0.62%)
Atrial Fibrillation	96,079 (2.19%)	562 (10.32%)	230 (17.69%)
Asthma	502,372 (11.46%)	867 (15.92%)	121 (9.31%)
Blood cancer	19,241 (0.44%)	101 (1.85%)	25 (1.92%)
Congestive Cardiac Failure	43,523 (0.99%)	309 (5.67%)	121 (9.31%)
Cerebral Palsy	5,240 (0.12%)	13 (0.24%)	0 (0.00%)
Coronary heart disease	182,610 (4.17%)	834 (15.31%)	291 (22.38%)
Liver cirrhosis	21,399 (0.49%)	84 (1.54%)	29 (2.23%)
Congenital heart disease	33,861 (0.77%)	99 (1.82%)	25 (1.92%)
COPD	121,353 (2.77%)	555 (10.19%)	155 (11.92%)
Dementia	35,575 (0.81%)	374 (6.87%)	468 (36.00%)
Diabetes Type 1	19,236(0.44%)	53 (0.97%)	9 (0.69%)

Diabetes Type 2	232,416 (5.30%)	1,015 (18.64%)	256 (19.69%)
Epilepsy	56,987 (1.30%)	154 (2.83%)	37 (2.85%)
Hip, wrist, spine, humerus fracture	168,348 (3.84%)	539 (9.90%)	231 (17.77%)
Neurological conditions	16,386 (0.37%)	45 (0.83%)	12 (0.92%)
Parkinson's	8,910 (0.20%)	73 (1.34%)	38 (2.92%)
Pulmonary hypertension	8,145 (0.19%)	67 (1.23%)	17 (1.31%)
Cystic fibrosis, bronchiectasis or alveolitis.	20,870 (0.48%)	100 (1.84%)	21 (1.62%)
Peripheral vascular disease	39,877 (0.91%)	199 (3.65%)	57 (4.38%)
SLE or rheumatoid arthritis	42,156 (0.96%)	135 (2.48%)	36 (2.77%)
Lung, oral cancer	9,934 (0.23%)	61 (1.12%)	17 (1.31%)
Severe mental illness	484,985 (11.07%)	968 (17.77%)	194 (14.92%)
Sickle cell disease or combined immune deficiency syndrome	2,696 (0.06%)	7 (0.13%)	0 (0.00%)
Stroke, transient ischaemic attack	108,763 (2.48%)	596 (10.94%)	262 (20.15%)
Venous thromboembolism	68,193 (1.56%)	323 (5.93%)	111 (8.54%)

BMI - body mass index, COPD – chronic obstructive pulmonary disease,

SLE - systemic lupus erythematosus, motor neurone disease, multiple sclerosis, myaesthesia, or Huntington's chorea.