

**Supplementary Information. Full Table 4.**

<b>Predictor</b>	<b>2.50%</b>	<b>97.50%</b>
Renal:Intubated	0.000103764	7643609775
Renal	0.486645365	1.881880215
Intubated	1.04447025	5.442442601
Hypertension:Renal	0.000263704	199.9827493
Hypertension:Intubated	0.097399533	0.600357
Hypertension:Emphysema	0.557594926	2.704823516
Hypertension:Asthma	0.139638394	1.008655127
Hypertension	1.077414473	2.289169872
From Care Home:Renal	0.13618387	2.036221204
From Care Home:Hypertension	0.434771873	1.88149241
From Care Home:Emphysema	0.510940272	5.680957158
From Care Home:Diabetic	0.132182337	0.794504756
From Care Home:Cardiac	0.099104056	1.115373393
From Care Home:Asthma	1.59978126	21.53311661
From Care Home	0.997058623	5.02387445
Emphysema:Renal	0.170822373	0.779888042
Emphysema:Intubated	1.206012095	3.415924711
Emphysema	0.690771274	1.689236163
Diabetic:Renal	0.570534103	1.991974995
Diabetic:Intubated	0.139396061	1.663527518
Diabetic:Hypertension	0.559956224	1.251368666
Diabetic:Emphysema	0.415007429	1.787030747
Diabetic:Asthma	0.156133515	0.868406981
Diabetic	0.613005693	3.341879059
CPAP stratified by Time > 7 days	1.189130103	3.771298074
CPAP stratified by Time <= 7 days	0.214403109	0.510987006
Cardiac:Renal	0.609847689	6.967026721
Cardiac:Intubated	0.144892534	3.735364195
Cardiac:Hypertension	0.316517965	2.636632143
Cardiac:Emphysema	0.311332247	3.540166564
Cardiac:Diabetic	0.055768375	1.444012531
Cardiac:Asthma	0.874027646	6.407810905
Cardiac	0.288388446	3.983278499
Asthma:Renal	1.66E-07	61817.60179
Asthma:Intubated	0.092234858	5.317851271
Asthma:Emphysema	0.075510756	12.00016428
Asthma	0.443671931	1.900897464
Age	1.012052403	1.053622705