

## Supplement 1

Table 1S. Crude and adjusted incident rate ratios (IRR) for COVID-19 mortality (until 7<sup>th</sup> May 2020)

	Deaths	
	Crude IRR	Adjusted IRR
<b>Sex</b>		
Men	1	1
Women	0.54 (0.52, 0.58)	0.44 (0.41, 0.48)
<b>Age</b>		
56-65	1	1
26-45	0.10 (0.07, 0.15)	0.12 (0.08, 0.17)
46-65	0.31 (0.24, 0.41)	0.37 (0.27, 0.49)
66-75	6.12 (5.18, 7.23)	3.68 (3.07, 4.42)
76-85	15.43 (13.23, 17.99)	7.84 (6.54, 9.40)
86-95	21.94 (18.83, 25.55)	11.57 (9.58, 13.97)
=>96	23.77 (19.58, 28.86)	12.44 (9.83, 15.74)
<b>Co-morbidity index</b>		
0	1	1
1-2	7.93 (7.02, 8.96)	1.78 (1.55, 2.05)
3-4	24.07 (21.30, 27.20)	2.46 (2.13, 2.83)
=>5	17.19 (15.27, 19.36)	2.63 (2.28, 3.02)
<b>Housing</b>		
House	1	
Flat/Semidetached	1.88 (1.73, 2.04)	1.11 (1.02, 1.22)
Other	2.51 (1.94, 3.23)	1.16 (0.89, 1.51)
Special accommodation	9.98 (9.05, 11.01)	1.37 (1.22, 1.54)
<b>Family structure</b>		
Together w/out children	1	1
Together with children	0.10 (0.08, 0.12)	0.80 (0.65, 0.97)
Alone without children	2.00 (1.86, 2.16)	1.19 (1.05, 1.36)
Alone with children	0.27 (0.22, 0.34)	1.26 (0.97, 1.63)
Other without children	1.02 (0.89, 1.18)	1.21 (1.03, 1.43)
Other with children	0.41 (0.35, 0.49)	1.22 (0.99, 1.50)
<b>Civil status</b>		

Partner	1	1
Single	0.52 (0.47, 0.58)	0.91 (0.79, 1.06)
Widowed	6.11 (5.65, 6.61)	0.92 (0.80, 1.05)
Divorced	1.65 (1.50, 1.81)	0.89 (0.78, 1.02)
<b>Region of residence</b>		
Other	1	1
Västra Götaland	0.71 (0.63, 0.79)	0.52 (0.46, 0.59)
Stockholm	2.15 (2.01, 2.30)	1.07 (0.99, 1.15)
<b>Education</b>		
Tertiary	1	1
Secondary (10-12 years)	1.96 (1.79, 2.15)	1.13 (1.03, 1.25)
Primary (< 10 years)	5.01 (4.57, 5.49)	1.06 (0.96, 1.18)
<b>Income</b>		
Quintile 1 (richest)	1	1
Quintile 2	0.84 (0.72, 0.99)	1.08 (0.91, 1.28)
Quintile 3	1.59 (1.38, 1.83)	1.37 (1.17, 1.59)
Quintile 4	4.36 (3.86, 4.93)	1.50 (1.30, 1.73)
Quintile 5 (poorest)	4.42 (3.91, 4.99)	1.66 (1.43, 1.92)
<b>Place of birth</b>		
Sweden	1	1
High income countries	1.39 (1.26, 1.54)	0.99 (0.88, 1.10)
Middle income countries	0.47 (0.42, 0.53)	0.86 (0.73, 1.00)
Low income countries	0.61 (0.52, 0.72)	1.37 (1.10, 1.71)

Table 2S. Association between the socioeconomic variables and Charlson comorbidity index (CCI), using a cut-off of 5 and 3.\*

	CCI ( $\geq 5$ )		CCI ( $\geq 3$ )	
	Crude IRR	Adjusted IRR	Crude IRR	Adjusted IRR
Education				
Tertiary	1	1	1	1
Secondary	1.07 (1.02, 1.13)	1.09 (1.04, 1.15)	1.09 (1.05, 1.13)	1.09 (1.05, 1.14)
Primary	1.14 (1.07, 1.20)	1.17 (1.10, 1.24)	1.17 (1.11, 1.22)	1.18 (1.13, 1.24)
Income				
Quintile 1 (richest)	1	1	1	1
Quintile 2	1.05 (0.97, 1.13)	1.05 (0.97, 1.13)	1.06 (0.99, 1.13)	1.07 (1.01, 1.14)
Quintile 3	1.22 (1.14, 1.31)	1.23 (1.14, 1.33)	1.24 (1.17, 1.32)	1.26 (1.19, 1.34)
Quintile 4	1.40 (1.31, 1.50)	1.41 (1.31, 1.51)	1.38 (1.31, 1.46)	1.40 (1.32, 1.48)
Quintile 5 (poorest)	1.31 (1.22, 1.40)	1.32 (1.22, 1.42)	1.36 (1.29, 1.44)	1.36 (1.29, 1.45)
Place of birth				
Sweden	1	1	1	1
High Income country	1.07 (1.00, 1.15)	1.01 (0.94, 1.09)	1.05 (0.99, 1.10)	1.00 (0.95, 1.06)
Middle income country	1.09 (1.03, 1.16)	1.05 (0.98, 1.12)	1.03 (0.98, 1.08)	1.01 (0.96, 1.07)
Low-income country	1.08 (0.98, 1.18)	1.03 (0.94, 1.14)	1.02 (0.94, 1.10)	0.99 (0.91, 1.08)

model 1 adjusted for age, sex; model 2: model 1 + civil status, house type, accommodation and place of residence. Two cut-off points, CCI $\geq 5$  and CCI $\geq 3$