Supplementary Online Content

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This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1: Characteristics and outcomes of children, by race.

	Total (n= 2,576,353)	White (n= 1,311,041)	Asian (n= 243,545)	Black (n=93,620)	Mixed/Other (n=147,529)
Age Categories, n(%)					
0-3 months	61,116 (2.4)	17,610 (1.3)	3,185 (1.3)	978 (1.0)	2,469 (1.7)
3-12 months	130,110 (5.1)	46,371 (3.54)	7,789 (3.2)	2,492 (2.7)	6,020 (4.1)
2-5 years	557,318 (21.6)	235, 825 (18.0)	42,132 (17.3)	14,756 (15.8)	29,725 (20.2)
6-10 years	725,819 (28.2)	408,287 (31.1)	74,710 (30.7)	27,329 (29.2)	44,984 (30.5)
11- 15 years	707,095 (27.5)	431,266 (32.9)	78,460 (32.2)	31,868 (34.0)	33,024 (29.8)
16- 18 years	394,895 (15.3)	171,682 (13.1)	37,269 (15.3)	16,197 (17.3)	20,307 (13.8)
Female, n (%)	1,257,260 (48.8)	639,720 (48.8)	118,676 (48.7)	46,064 (49.2)	72,029 (48.8)
Townsend deprivation quintile,	n(%)			I	
1 (least deprived)	527,452 (20.5)	323,136 (24.9)	21,676 (9.0)	2,677 (2,9)	13,415 (9.2)
2	547,532 (21.3)	315,037 (24.2)	32,429 (13.4)	5,521 (6.0)	19,051 (13.0)
3	542,116 (21.0)	282,253 (21.7)	52,332 (21.6)	12,679 (13.7)	28,923 (19.1)
4	509,671 (19.8)	232,034 (17.8)	67,645 (28.0)	24,033 (25.9)	36,641 (25.1)
5 (most deprived)	429,060 (16.7)	148,049 (11.4)	67,942 (28.1)	47,858 (51.6)	49,223 (33.7)
Comorbidities, n (%)				•	
None of relevant comorbidities	2,348,326 (91.1)	1,187,099 (90.5)	218,118 (89.6)	84,4947 (89.7)	134,374 (91.1)
Asthma	183,089 (7.1)	106,217 (8.1)	21,647 (8.9)	7,016 (7.5)	10,649 (7.2)
Diabetes (type 1)	4916 (0.2)	2937 (0.2)	288 (0.1)	203 (0.2)	256 (0.2)
Cerebral Palsy	3927 (0.2)	2245 (0.2)	344 (0.1)	151 (0.2)	203 (0.1)
Epilepsy	12,972 (0.5)	722 (0.56)	1228 (0.5)	587 (0.6)	735 (0.5)
Congenital heart disease	21,523 (0.8)	11,645 (0.9)	1883 (0.8)	651 (0.7)	1001 (0.7)
Sickle cell disease	1600 (0.1)	176 (0.01)	37 (0.02)	705 (0.8)	311 (0.2)
Test Outcome	•	·			
Ever tested, n (% population)	410,726 (15.9)	223,701 (17.0)	33,213 (13.6)	7727 (8.3)	18,971 (12.9)
Tested positive, if tested n(% tested)	26,322 (6.4)	13,043 (5.8)	3576 (11.2)	601 (7.8)	1197 (5.9)
Hospital Outcome					
Any hospital contact, n(% population)	1,853 (0.07)	839 (0.06)	236 (0.10)	67 (0.07)	108 (0.07)
Hospital admission, n(% population)	343 (0.01)	125 (0.01)	47 (0.02)	20 0.02)	30(0.02)
<36hrs	184 (0.01)	62 (0.005)	24 (0.01)	10 (0.01)	11 (0.01)
≥36hrs	159 (0.01)	63 (0.005)	23 (0.01)	10 (0.01)	19 (0.01)

Hospitalization Duration (median, IQR)	1 (0,4)	2 (0,4)	1 (0,6)	1.5 (1,4)	2 (1,5)
ICU admission, n (% population)	73 (0.003)	24(0.002)	15(0.006)	5 (0.005)	6 (0.004)

eTable 2: Baseline characteristics of study population, population with Race recorded and population without race recorded.

	Total Population	Race	% total	Race not	% total
	(col%)	Recorded	population	Recorded	population
	(00000)	(col %)	(row %)	(col%)	(row %)
Total number	2,576,353	1,795,735	69.7	780,618	30.3
Sex, n(%)		, ,	1 1	,	
Male	1,318,747	919,246 (51.2)	69.8	399,501 (51.2)	30.2
	(51.2)			, , ,	
Female	1,257,606 (48.8)	876,498 (48.8)	69.7	381,117 (48.2)	30.3
Age in years, median (IQR)	9 (5, 14)	10 (6,14)		7 (3,15)	N/A
Age categories, n (%)	5 (0, 14)	10 (0,14)		7 (0,10)	11/74
0-3 months	61,116 (2.4)	24,242 (1.35)	39.7	36,874 (4.7)	60.3
3-12 months	130,110 (5.1)	62,672 (3.5)	48.2	67,438 (8.6)	51.8
2-5 years	557,318 (21.6)	322,438 (18.0)	57.9	234,880 (30.1)	42.1
6-10 years	725,819 (28.2)	555,310 (30.9)	76.6	170,509 (21.8)	23.4
11- 15 years	707,095 (27.5)	585,618 (32.6)	82.8	121,477 (15.6)	17.2
16- 18 years	394,895 (15.3)	245,455 (13.7)	62.2	149,440 (19.1)	37.8
Race, n (%)		210,100 (1017)	02.2		0110
White	1,311,041	1,311,041 (73)			
	(50.9)	.,,			
Asian	243,545 (9.5)	243,545 (13.5)			
Black	93,620 (3.6)	93,620 (5.2)	-		
Mixed/Other	147,529 (5.7)	147,529 (5.7)	-		
Townsend deprivation quintile,		111,020 (011)			
1 (least deprived)	527,452 (20.5)	360,905 (20.3)	68.4	166,547 (21.5)	31.6
2	547,532 (21.3)	372,038 (20.9)	67.9	175, 494 (22.7)	32.1
3	542,116 (21.0)	375,187 (21.1)	69.3	166,929 (21.6)	30.7
4	509,671 (19.8)	360,353 (20.2)	70.8	149, 318 (19.3)	29.2
5 (most deprived)	429,060 (16.7)	313,072 (17.6)	73	115,988 (15.0)	27.0
Not recorded	20,522 (0.8)	14,180 (0.08)	69.1	6,342 (0.8)	30.9
Geographical region of England				0,0 := (0.0)	
East Midlands	48,887 (1.9)	38,103 (2.1)	77.9	10,784 (1.4)	22.1
East of England	98,280 (3.8)	74,815 (4.2)	76.1	23,465 (3.0)	23.9
London	669,444 (26.0)	495,064 (27.6)	74	174,380 (22.4)	26.0
North East	51,775 (2.0)	40,251 (2.2)	77.7	11,524 (1.5)	22.3
North West	473,994 (18.4)	306,970 (17.1)	64.8	167,024 (21.4)	35.2
South Central	341,774 (13.3)	247,650 (13.8)	72.5	94,124 (12.1)	27.5
South East	283,721 (11.0)	184,437 (10.3)	65	99,284 (12.7)	35.0
South West	242,585 (9.4)	153,324 (8.5)	63.2	89,261 (11.4)	36.8
West Midlands	284,207 (11.0)	196,028 (10.9)	69	88,179 (11.3)	31.0
Yorkshire & Humber	81,686 (3.2)	59,093 (3.29)	72.3	22,593 (2.3)	27.7
Household Size, n(%)				,000 ()	
2 people	383,616 (14.9)	258,920 (16.4)	67.5	124,696 (19.5)	32.5
3-5 people	1,549,068	1,113,716	71.9	435,352 (68.2)	28.1
	(60.1)	(70.6)		,	_0.1
6-9 people	246,764 (9.6)	180,587 (11.5)	73.2	66,177 (10.4)	26.8
10 or more people	35,396 (1.4)	23,380 (1.5)	66.1	12,016 (1.88)	33.9
Not recorded *	361,509 (14.0)	219,132 (12.2)	60.7	142,377 (18.2)	39.3
Comorbidities, n (% total)		('')			
No relevant	2,348,326	1,621,177	68.8	731,963 (93.7)	31.2
comorbidities	(91.1)	(90.3)	00.0	,	01.2
Asthma	183,089 (7.1)	145,629 (8.1)	79.5	37,460 (4.8)	20.5
Diabetes (type 1)	4916 (0.2)	3,684 (0.21)	74.9	1,232 (0.16)	20.0
Cerebral Palsy	3927 (0.2)	2,943 (0.16)	74.9	984 (0.13)	25.1
Epilepsy	12,972 (0.5)	9,771 (0.54)	75.3	3,201 (0.41)	23.1
Congenital heart disease	21,523 (0.8)	15,180 (0.85)	70.5	6,343 (0.81)	29.5
Sickle cell disease	1600 (0.1)	1129 (0.07)	76.8	371 (0.05)	23.2
Outcomes	1000 (0.1)	1120 (0.07)	70.0	0.00)	20.2

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SARS-CoV-2 positive	26322	18,417 (1.0)	70	7,905 (1.0)	30.0
Hospital Contact	1853	1250 (0.07)	67.5	603 (0.08)	32.5
Hospital admission	343	222 (0.012)	64.8	121 (0.015)	35.2
ICU	73	50 (0.003)	68.5	23 (0.003)	31.5

eTable 3: Comparison of regression estimates for complete case analysis (CCA) and multiple imputation (MI) models for maximally adjusted regression analysis exploring the association between race and testing positive for SARS-CoV-2. *OR= Odds Ratio, 95%CI= 95% confidence interval.*

	Complete Case Analysis	Multiple
	(n=1,795,735)	Imputation
		(n=2,576,353,
		(n=2,070,000, m=10)
	OR (95% CI)	OR (95%CI)
		e-value
Race		
White	1	1
Asian	1.88 (1.75-2.02)	1.80 (1.70-1.91)
Black	1.36 (1.20-1.56)	1.12 (1.01-1.25)
Mixed/Other	1.22 (1.12-1.33)	1.14 (1.05-1.23)
Age Category		
0-3 months	1	1
3-12 months	0.61 (0.49-0.75)	0.62 (0.54-0.71)
2-5 years	0.62 (0.52-0.75)	0.63 (0.56-0.7)
6-10 years	1.11 (0.93-1.33)	1.11 (0.99-1.25)
11- 15 years	2.08 (1.74-2.49)	2.12 (1.90-2.38)
16- 18 years	3.49 (2.92-4.18)	3.62 (3.23-4.05)
Sex		
Female	1	1
Male	0.97 (0.94-1.00)	0.96 (0.93-0.98)
Townsend Quintile	· · · · · ·	
1 (least deprived)	1	1
2	0.96 (0.91-1.01)	0.94 (0.90-0.99)
3	1.02 (0.96-1.08)	0.98 (0.93-1.03)
4	0.99 (0.94-1.06)	0.97 (0.92-1.02)
5 (most deprived)	1.08 (1.01-1.16)	1.05 (0.98-1.13)
Region		
East Midlands	1	1
East of England	0.49 (0.38-0.62)	0.53 (0.43-0.65)
London	0.67 (0.56-0.79)	0.72(0.62-0.85)
North East	1.09 (0.90-1.31)	1.16 (0.98-1.38)
North West	1.05 (0.88-1.24)	1.09 (0.93-1.27)
South Central	0.55 (0.46-0.66)	0.58 (0.49-0.68)
South East	0.74 (0.61-0.90)	0.76 (0.64-0.91)
South West	0.65 (0.53-0.80)	0.67 (0.56-0.81)
West Midlands	0.91 (0.76-1.08)	0.92 (0.79-1.09)
Yorkshire & Humber	1.18 (0.96-1.44)	1.19 (0.99-1.43)
Household Size		
2 people	1	1
3-5 people	1.13 (1.07-1.19)	1.09 (1.05-1.14)
6-9 people	1.31 (1.21-1.42)	1.25 (1.17-1.33)
10 or more people	2.01 (1.55-2.61)	1.75 (1.40-2.19)
Comorbidities		
Diabetes (type 1)	1.06 (0.83-1.35)	0.93 (0.76-1.13)
Asthma	0.92 (0.87-0.97)	0.90 (0.86-0.94)
Congenital heart disease	0.86 (0.73-1.02)	0.87 (0.76-0.99)
Cerebral Palsy	0.62 (0.42-0.89)	0.71 (0.54-0.93)
Epilepsy	0.87 (0.73-1.05)	0.85 (0.73-0.98)
Sickle cell disease	0.30 (0.12-0.73)	0.38(0.19-0.76)

eTable 4: Comparison of regression estimates for complete case analysis (CCA) and multiple imputation (MI) models for maximally adjusted regression analysis exploring the association between race and any hospital contact. *OR= Odds Ratio, 95%CI= 95% confidence interval.*

	Complete Case Analysis Multiple Imputation			
	(n=1,795,735)	(n=2,576,353, m=10)		
	OR (95% CI)	OR (95%CI)		
Race				
White	1	1		
Asian	1.81 (1.41-2.30)	1.69 (1.40-2.05)		
Black	1.42 (1.07-1.88)	1.20 (0.95-1.53)		
Mixed/Other	1.35 (1.05-1.74)	1.25 (1.03-1.53)		
Age Category				
0-3 months	1	1		
3-12 months	0.59 (0.37-0.94)	0.55 (0.42-0.72)		
2-5 years	0.21 (0.14-0.32)	0.23 (0.18-0.29)		
6-10 years	0.23 (0.16-0.35)	0.26 (0.21-0.33)		
11- 15 years	0.44 (0.30-0.65)	0.44 (0.35-0.56)		
16- 18 years	0.79 (0.53-1.18)	0.85 (0.68-1.06)		
Sex		4		
Female				
Male Townsend Quintile	1.00 (0.89-1.13)	0.96 (0.88-1.05)		
	1	1		
1 (least deprived) 2	0.81 (0.67-0.97)	0.9 (0.78-1.04)		
3	0.90 (0.75-1.09)	0.94 (0.80-1.10		
4	0.76 (0.63-0.91)	0.79 (0.67-0.92)		
5 (most deprived)	0.78 (0.63-0.97)	0.81 (0.68-0.97)		
Region	0.10 (0.00 0.01)	0.01 (0.00 0.01)		
East Midlands	1	1		
East of England	1.01 (0.55-1.87)	0.99 (0.62-1.59)		
London	0.90 (0.52-1.54)	0.93 (0.61-1.42)		
North East	1.60 (0.85-3.02)	1.53 (0.93-2.53)		
North West	1.85 (1.08-3.16)	1.65 (1.08-2.51)		
South Central	1.30 (0.75-2.25)	1.00 (0.65-1.54)		
South East	1.62 (0.88-2.96)	1.42 (0.85-2.35)		
South West	1.25 (0.71-2.20)	1.11 (0.71-1.74)		
West Midlands	1.43 (0.82-2.50)	1.32 (0.85-2.04)		
Yorkshire & Humber	1.36 (0.72-2.56)	1.29 (0.79-2.09)		
Household Size				
2 people	1	1		
3-5 people	1.10 (0.91-1.32)	1.06 (0.91-1.22)		
6-9 people	0.85 (0.65-1.12)	0.90 (0.73-1.13)		
10 or more people	1.57 (0.96-2.58)	1.25 (0.83		
Comorbidities				
Diabetes (type 1)	4.21 (2.38-7.45)	3.55 (2.16-5.81)		
Asthma Congenitel beart diagona	1.12 (0.93-1.34)	1.18 (1.02-1.37)		
Congenital heart disease	1.94 (1.23-3.09)	1.83 (1.28-2.64)		
Cerebral Palsy	2.57 (1.17-5.65)	2.87 (1.58-5.23)		
Epilepsy Sickle cell disease	<u>2.42 (1.51-3.90)</u> 4.32 (1.43-13.11)	2.88 (1.99-4.17)		
Sickle cell disease	4.32 (1.43-13.11)	3.79 (1.42-10.11)		

eTable 5: Comparison of regression estimates for complete case analysis (CCA) and multiple imputation (MI) models for maximally adjusted regression analysis exploring the association between race and hospital admission.

OR= Odds Ratio, 95%CI= 95% confidence interval.

	Complete Case Analysis	Multiple Imputation			
	(n=1,795,735)	(n=2,576,353, m=10)			
	OR (95% CI)	OR (95%CI)			
Race					
White	1	1			
Asian	1.60(1.07-2.40)	1.62 (1.12-2.36)			
Black	1.91 (1.15-3.17)	1.44 (0.9-2.31)			
Mixed/Other	1.40 (0.82-2.40)	1.40 (0.93-2.10)			
Age Category					
0-3 months	1	1			
3-12 months	0.37 (0.21-0.67)	0.38 (0.26-0.56)			
2-5 years	0.080 (0.043-0.14)	0.10 (0.07-0.14)			
6-10 years	0.050 (0.03-0.08)	0.06 (0.04-0.08)			
11- 15 years	0.070 (0.040-0.11)	0.07 (0.05-0.10)			
16- 18 years	0.090(0.050-0.16)	0.11 (0.08-0.16)			
Sex		1			
Female	1	1 10 (0.07.1.17)			
Male	1.13 (0.85-1.50)	1.19 (0.97-1.47)			
Townsend Quintile					
1 (least deprived)	1	1			
2	0.76 (0.45-1.28)	1.01 (0.68-1.50)			
3	1.16 (0.70-1.90)	1.24 (0.84-1.83)			
4 5 (most deprived)	1.14 (0.70-1.84)	1.21 (0.83-1.77)			
5 (most deprived)	1.48 (0.88-2.48)	1.48 (1.00-2.20)			
Region East Midlands	1	1			
East of England	2.50 (0.55-11.30)	1.31 (0.51-3.33)			
London	1.92 (0.47-7.87)	1.37 (0.60-3.09)			
North East	1.36 (0.24-7.64)	0.72 (0.22-2.38)			
North West	1.64 (0.39-6.90)	1.21 (0.54-2.08)			
South Central	1.76 (0.41-7.60)	0.86 (0.36-2.08)			
South East	1.55 (0.35-6.75)	1.10 (0.46-2.60)			
South Vest	1.44 (0.33-6.34)	0.79 (0.32-1.95)			
West Midlands	2.21 (0.53-9.25)	1.18 (0.51-2.75)			
Yorkshire & Humber	1.01 (0.18-5.79)	0.61 (0.20-1.88)			
Household Size	1.01 (0.10 0.75)	0.01 (0.20 1.00)			
2 people	1	1			
3-5 people	1.29 (0.84-1.96)	0.94 (0.7-1.26)			
6-9 people	1.37 (0.79-2.36)	1.12 (0.76-1.67)			
10 or more people	0.80 (0.19-3.34)	0.87 (0.31-2.45)			
Comorbidities	0.00 (0.13-3.34)	0.07 (0.01-2.40)			
Diabetes (type 1)	8.75 (2.78-27.56)	10.11 (4.12-24.80)			
Asthma	1.52 (0.93-2.46)	1.43 (0.95 -2.16)			
Congenital heart disease	1.31 (0.32-5.33)	2.69 (1.27-5.71)			
Cerebral Palsy	9.87 (2.56-38.07)	7.96 (2.70-22.76)			
Epilepsy	3.54 (1.08-11.67)	6.17 (2.77-13.73)			
Sickle cell disease	11.73 (2.87-48.07)	8.24 (2.02-33.51)			
SIGNIE CEII UISEASE	11.73 (2.07-40.07)	0.24 (2.02-33.31)			

eTable 6: Comparison of regression estimates for complete case analysis (CCA) and multiple imputation (MI) models for maximally adjusted regression analysis exploring the association between race and i) hospitalization <36 hours and ii) hospitalization duration \geq 36 hours. *OR*= *Odds Ratio,* 95%*CI*= 95% confidence interval.

i)

	Complete Case Analysis Multiple Imputatio				
	Complete Case Analysis	Multiple Imputation			
	(n=1,795,735)	(n=2,576,353, m=10)			
-	OR (95% CI)	OR (95%CI)			
Race					
White	1	1			
Asian	1.24 (0.72-2.14)	1.28 (0.78-2.09)			
Black	3.28 (1.56-6.89)	2.95 (1.52-5.69)			
Mixed/Other	1.49 (0.66-3.36)	1.48 (0.81-2.71)			
Age Category					
0-3 months	1	1			
3-12 months	0.85 (0.34-2.11)	0.52 (0.31-0.86)			
2-5 years	0.13 (0.05-0.32)	0.13 (0.08-0.21)			
6-10 years	0.03 (0.01-0.08)	0.04 (0.02-0.06)			
11-15 years	0.03 (0.01-0.07)	0.02 (0.01-0.04)			
16- 18 years	0.02(0.008-0.05)	0.02 (0.01-0.04)			
Sex					
Female	1	1			
Male	1.64 (1.09-2.50)	1.42 (1.06-1.89)			
Townsend Quintile					
1 (least deprived)	1	1			
2	0.66 (0.31-1.42)	0.96 (0.56-1.65)			
3	1.26 (0.65-2.47)	1.21 (0.73-2.0)			
4	0.91 (0.43-1.92)	1.10 (0.66-1.85)			
5 (most deprived)	1.33 (0.62-2.85)	1.43 (0.85-2.41)			
Household Size					
2 people	1	1			
3-5 people	1.64 (0.85-3.17)	0.95 (0.63-1.43)			
6-9 people	1.22 (0.49-3.07)	0.81 (0.44-1.51)			
10 or more people	1.35 (0.28-6.45)	0.99 (0.28-3.53)			

ii)

	Complete Case Applysia	Multiple Imputation
	Complete Case Analysis	Multiple Imputation
	(n=1,795,735)	(n=2,576,353, m=10)
	OR (95% CI)	OR (95%CI)
Race		
White	1	1
Asian	0.87 (0.50 -1.51)	1.09 (0.66-1.81)
Black	2.48 (1.15 – 5.34)	2.31 (1.08-4.94)
Mixed/Other	1.51 (0.74-3.08)	2.14 (1.25-3.65)
Age Category		
0-3 months	1	1
3-12 months	0.20 (0.07-0.56)	0.29 (0.16-0.53)
2-5 years	0.05 (0.02-0.13)	0.08 (0.04-0.13)
6-10 years	0.04 (0.01-0.07)	0.05 (0.03-0.08)
11- 15 years	0.02 (0.01-0.05)	0.03 (0.02-0.05)
16- 18 years	0.02 (0.01-0.05)	0.03 (0.02-0.06)
Sex		
Female	1	1
Male	0.88 (0.59-1.30)	1.08 (0.79-1.46)
Townsend Quintile	· · · · · · · · · · · · · · · · · · ·	· · _ · _ / _
1 (least deprived)	1	1
2	0.97 (0.43-2.19)	1.28 (0.66-2.48)

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1.13 (0.53-2.40)	1.46 (0.77-2.77)
1.42 (0.69-2.93)	1.95 (1.04-3.63)
2.13 (0.99-4.54)	3.28 (1.76-6.09)
1	1
0.88 (0.50-1.58)	0.89 (0.57-1.39)
1.29 (0.64-2.60)	1.38 (0.78-2.44)
<0.001	0.40 (0.05-3.00)
	1.42 (0.69-2.93) 2.13 (0.99-4.54) 0.88 (0.50-1.58) 1.29 (0.64-2.60)

eTable 7: Comparison of regression estimates for complete case analysis (CCA) and multiple imputation (MI) models for maximally adjusted regression analysis exploring the association between race and intensive care admission.

OR= Odds Ratio, 95%CI= 95% confidence interval.

Complete Case Analysis Multiple Imputation (n=1,795,735) Race White 1 0R (95% cl) 0R (95% cl) Asian 1.92 (0.79 - 4.73) 2.11 (1.07 - 4.14) Black 1.75 (0.56 - 5.30) 1.35 (0.47 - 3.87) Mixed/Other 1.09 (0.33 - 3.60) 1.20 (0.48 - 3.01) Age category 1 1 -0 -3 months 1 1 3 -12 months 0.14 (0.036 - 0.52) 0.12 (0.05 - 0.28) 2-5 years 0.03 (0.009 - 0.09) 0.05 (0.02 - 0.11) 6-10 years 0.04 (0.02 - 0.01) 0.04 (0.02 - 0.02) 11 - 15 years 0.04 (0.02 - 0.03) 0.03 (0.01 - 0.08) Sex 0 0.02 (0.005 - 0.08) 0.03 (0.01 - 0.08) Sex 0 1 1 1 (least deprived) 1 1 1 2 0.71 (0.22 - 2.35) 1.37 (0.44 - 3.10) 3 0.99 (0.35 - 2.82) 1.80 (0.74 - 4.40) 4 0.97 (0.35 - 2.67) 1.25 (0.49 - 3.19) 5 (most deprived) 1.73 (0.61 - 4.89) 2.46 (1						
OR (95% CI) OR (95%CI) Race White 1 1 Asian 1.92 (0.79 -4.73) 2.11 (1.07 -4.14) Black 1.75 (0.56 - 5.30) 1.35 (0.47-3.87) Mixed/Other 1.09 (0.33-3.60) 1.20 (0.48-3.01) Age category 0-3 months 1 1 3-12 months 0.14 (0.036-0.52) 0.12 (0.05-0.28) 2-5 years 0.03 (0.009-0.09) 0.05 (0.02-0.11) 6-10 years 0.04 (0.01-0.09) 0.04 (0.02-0.07) 11-15 years 0.04 (0.02-0.10) 0.04 (0.02-0.07) 11-15 years 0.02 (0.005-0.08) 0.03 (0.01-0.08) Sex 0 0.02 (0.005-0.08) 0.03 (0.01-0.08) Sex 1 1 1 1 1.36 (0.72-2.57) 1.49 (0.92-2.41) Townsend Quintile 1 1 1 1 1 1 1 1 2 0.71 (0.22-2.35) 1.37 (0.44-3.10) 3 0.99 (0.35-2.82) 1.80 (0.74-4.0) 3 0.99 (0.35-2.67)						
Race 1 <th1< th=""> 1 1 1</th1<>						
White 1 1 Asian 1.92 (0.79 - 4.73) 2.11 (1.07 - 4.14) Black 1.75 (0.56 - 5.30) 1.35 (0.47 - 3.87) Mixed/Other 1.09 (0.33 - 3.60) 1.20 (0.48 - 3.01) Age category 1 1 1 0-3 months 1 1 1 1 3-12 months 0.14 (0.036 - 0.52) 0.12 (0.05 - 0.28) 2.5 years 0.03 (0.009 - 0.09) 0.05 (0.02 - 0.11) 6-10 years 0.04 (0.01 - 0.09) 0.04 (0.02 - 0.07) 11 - 15 years 0.04 (0.02 - 0.10) 0.04 (0.02 - 0.07) 11 - 15 years 0.04 (0.02 - 0.10) 0.04 (0.02 - 0.09) 0.65 (0.02 - 0.11) 6-10 years 0.02 (0.005 - 0.08) 0.03 (0.01 - 0.08) 0.03 (0.01 - 0.08) Sex 0.02 (0.005 - 0.08) 0.03 (0.01 - 0.08) 0.03 (0.01 - 0.08) Sex 1 1 1 1 1 Male 1.36 (0.72 - 2.57) 1.49 (0.92 - 2.41) 1 7 1 1 1 1 2 1 1 1 1		OR (95% CI)	OR (95%CI)			
Asian 1.92 (0.79 - 4.73) 2.11 (1.07-4.14) Black 1.75 (0.56 - 5.30) 1.35 (0.47-3.87) Mixed/Other 1.09 (0.33-3.60) 1.20 (0.48-3.01) Age category 1 1 1 -0-3 months 1 1 1 3-12 months 0.14 (0.036-0.52) 0.12 (0.05-0.28) 2-5 years 0.03 (0.009-0.09) 0.05 (0.02-0.11) 6-10 years 0.04 (0.01-0.09) 0.04 (0.02-0.07) 11 - 15 years 0.04 (0.02-0.10) 0.04 (0.02-0.09) 16 - 18 years 0.02 (0.005-0.08) 0.03 (0.01-0.08) Sex						
Black 1.75 (0.56 - 5.30) 1.35 (0.47.3.87) Mixed/Other 1.09 (0.33-3.60) 1.20 (0.48-3.01) Age category		1	1			
Mixed/Other 1.09 (0.33-3.60) 1.20 (0.48-3.01) Age category						
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11- 15 years 0.04 (0.02-0.10) 0.04 (0.02-0.09) 16- 18 years 0.02 (0.005-0.08) 0.03 (0.01-0.08) Sex	2-5 years		0.05 (0.02-0.11)			
16-18 years 0.02 (0.005-0.08) 0.03 (0.01-0.08) Sex Female 1 1 Male 1.36 (0.72-2.57) 1.49 (0.92-2.41) Townsend Quintile 1 (least deprived) 1 1 2 0.71 (0.22-2.35) 1.37 (0.44-3.10) 3 0.99 (0.35-2.82) 1.80 (0.74-4.40) 4 0.97 (0.35-2.67) 1.25 (0.49-3.19) 5 (most deprived) 1.73 (0.61-4.89) 2.46 (1.00-6.05) Household Size 1 2 people 1 1 1 3-5 people 1.89 (0.73-4.87) 1.31 (0.6-2.84) 6-9 people 1.48 (0.42-5.22) 1.05 (0.36-3.09) 10 or more people 2.34 (0.25-21.7) 1.99 (0.40-9.79) Comorbidities 1.05 (0.36-3.09) 10 or more people 2.34 (0.25-21.7) 1.99 (0.40-9.79) Comorbidities 1.05 (0.50-4.51) 1.17 (0.40-3.41) Congenital heart disease 5.66 (1.20-36.65) <td>6-10 years</td> <td></td> <td>1 1</td>	6-10 years		1 1			
Sex Image Name Image Nam Image Nam	11- 15 years	0.04 (0.02-0.10)	0.04 (0.02-0.09)			
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Male 1.36 (0.72-2.57) 1.49 (0.92-2.41) Townsend Quintile 1 1 1 (least deprived) 1 1 2 0.71 (0.22-2.35) 1.37 (0.44-3.10) 3 0.99 (0.35-2.82) 1.80 (0.74-4.40) 4 0.97 (0.35-2.67) 1.25 (0.49-3.19) 5 (most deprived) 1.73 (0.61-4.89) 2.46 (1.00-6.05) Household Size 2 1 1 2 people 1 1 1 3-5 people 1.89 (0.73-4.87) 1.31 (0.6-2.84) 6-9 people 1.48 (0.42-5.22) 1.05 (0.36-3.09) 10 or more people 2.34 (0.25-21.7) 1.99 (0.40-9.79) Comorbidities 3 10.35 (1.23-87.30) Asthma 1.50 (0.50-4.51) 1.17 (0.40-3.41) Congenital heart disease 5.66 (1.20-36.65) 9.4 (3.79-26.54) Cerebral Palsy 36.03 (5.46-237.88) 25.16 (4.53-139.83) Epilepsy 2.78 (0.31-25.19) 6.81 (1.27-36.46)	Sex					
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10 or more people2.34 (0.25-21.7)1.99 (0.40-9.79)ComorbiditiesDiabetes (type 1)13.57 (1.58-116.23)10.35 (1.23-87.30)Asthma1.50 (0.50-4.51)1.17 (0.40-3.41)Congenital heart disease5.66 (1.20-36.65)9.4 (3.79-26.54)Cerebral Palsy36.03 (5.46-237.88)25.16 (4.53-139.83)Epilepsy2.78 (0.31-25.19)6.81 (1.27-36.46)		,				
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Asthma1.50 (0.50-4.51)1.17 (0.40-3.41)Congenital heart disease5.66 (1.20-36.65)9.4 (3.79-26.54)Cerebral Palsy36.03 (5.46-237.88)25.16 (4.53-139.83)Epilepsy2.78 (0.31-25.19)6.81 (1.27-36.46)						
Asthma1.50 (0.50-4.51)1.17 (0.40-3.41)Congenital heart disease5.66 (1.20-36.65)9.4 (3.79-26.54)Cerebral Palsy36.03 (5.46-237.88)25.16 (4.53-139.83)Epilepsy2.78 (0.31-25.19)6.81 (1.27-36.46)	Diabetes (type 1)	13.57 (1.58-116.23)	10.35 (1.23-87.30)			
Congenital heart disease5.66 (1.20-36.65)9.4 (3.79-26.54)Cerebral Palsy36.03 (5.46-237.88)25.16 (4.53-139.83)Epilepsy2.78 (0.31-25.19)6.81 (1.27-36.46)						
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Epilepsy 2.78 (0.31-25.19) 6.81 (1.27-36.46)		, <i>, ,</i>	· · · · · ·			
	,					
	Sickle cell disease	25.00 (3.07-203.40)	18.31 (2.22-150.95)			

eTable 8: Comparison of maximally adjusted regression estimates for logistic regression and relative risk regression in the analysis exploring the association between race and testing positive for SARS-CoV-2. Adjusted for age, sex, deprivation level, household size, geographical region and comorbidities.

OR= Odds Ratio, RR= Risk Ratio 95%CI= 95% confidence interval.

	Maximally adjusted relative risk	Maximally adjusted
	regression	Logistic Regression
	RR (95% CI)	OR (95%CI)
Race		· · · · · · · ·
White	1	1
Asian	1.80 (1.70-1.91)	1.80 (1.70-1.91)
Black	1.14 (1.02-1.27)	1.12 (1.01-1.25)
Mixed/Other	1.15 (1.06-1.24)	1.14 (1.05-1.23)
Age Category		
0-3 months	1	1
3-12 months	0.62 (0.54-0.72)	0.62 (0.54-0.71)
2-5 years	0.63 (0.56-0.70)	0.63 (0.56-0.70)
6-10 years	1.11 (0.99-1.25)	1.11 (0.99-1.25)
11- 15 years	2.12 (1.90-2.38)	2.12 (1.90-2.38)
16- 18 years	3.62 (3.23-4.05)	3.62 (3.23-4.05)
Sex		
Female	1	1
Male	0.96 (0.93-0.98)	0.96 (0.93-0.98)
Townsend Quintile		
1 (least deprived)	1	1
2	0.94 (0.90-0.99)	0.94 (0.90-0.99)
3	0.97 (0.93-1.03)	0.98 (0.93-1.03)
4	0.97 (0.92-1.02)	0.97 (0.92-1.02)
5 (most deprived)	1.05 (0.98-1.12)	1.05 (0.98-1.13)
Region		
East Midlands	1	1
East of England	0.53 (0.43-0.65)	0.53 (0.43-0.65)
London	0.72(0.62-0.85)	0.72(0.62-0.85)
North East	1.16 (0.98-1.38)	1.16 (0.98-1.38)
North West	1.09 (0.93-1.27)	1.09 (0.93-1.27)
South Central	0.58 (0.49-0.68)	0.58 (0.49-0.68)
South East	0.76 (0.64-0.91)	0.76 (0.64-0.91)
South West	0.67 (0.56-0.81)	0.67 (0.56-0.81)
West Midlands	0.93 (0.79-1.09)	0.92 (0.79-1.09)
Yorkshire & Humber	1.19 (0.99-1.43)	1.19 (0.99-1.43)
Household Size		· · · · · · · · · · · · · · · · · · ·
2 people	1	1
3-5 people	1.09 (1.05-1.14)	1.09 (1.05-1.14)
6-9 people	1.24 (1.17-1.33)	1.25 (1.17-1.33)
10 or more people	1.77 (1.42-2.20)	1.75 (1.40-2.19)
Comorbidities		
Diabetes (type 1)	0.93 (0.76-1.13)	0.93 (0.76-1.13)
Asthma	0.90 (0.86-0.94)	0.90 (0.86-0.94)
Congenital heart disease	0.87 (0.76-1.00)	0.87 (0.76-0.99)
Cerebral Palsy	00.71 (0.54-0.93)	0.71 (0.54-0.93)
Epilepsy	0.85 (0.73-0.98)	0.85 (0.73-0.98)
Sickle cell disease	0.38(0.19-0.76)	0.38(0.19-0.76)

eTable 9: Comparison of maximally adjusted regression estimates for logistic regression and relative risk regression in the analysis exploring the association between race and any COVID-19 hospital contact. Adjusted for age, sex, deprivation level, household size, geographical region and comorbidities.

	Maximally adjusted	Maximally adjusted
	relative risk regression	Logistic Regression
	RR (95% CI)	OR (95%CI)
Race		
White	1	1
Asian	1.73 (1.44-2.08)	1.69 (1.40-2.05)
Black	1.19 (0.91-1.57)	1.20 (0.95-1.53)
Mixed/Other	1.29 (1.04-1.59)	1.25 (1.03-1.53)
Age Category		
0-3 months	1	1
3-12 months	0.55 (0.42-0.72)	0.55 (0.42-0.72)
2-5 years	0.23 (0.18-0.29)	0.23 (0.18-0.29)
6-10 years	0.26 (0.21-0.33)	0.26 (0.21-0.33)
11- 15 years	0.44 (0.35-0.56)	0.44 (0.35-0.56)
16-18 years	0.85 (0.68-1.06)	0.85 (0.68-1.06)
Sex		
Female	1	1
Male	0.96 (0.88-1.05)	0.96 (0.88-1.05)
Townsend Quintile		
1 (least deprived)	1	1
2	0.9 (0.78-1.04)	0.9 (0.78-1.04)
3	0.93 (0.80-1.09)	0.94 (0.80-1.10
4	0.78 (0.67-0.92)	0.79 (0.67-0.92)
5 (most deprived)	0.80 (0.67-0.96)	0.81 (0.68-0.97)
Region		
East Midlands	1	1
East of England	0.99 (0.62-1.59)	0.99 (0.62-1.59)
London	0.93 (0.61-1.42)	0.93 (0.61-1.42)
North East	1.54 (0.94-2.53)	1.53 (0.93-2.53)
North West	1.65 (1.08-2.51)	1.65 (1.08-2.51)
South Central	1.00 (0.65-1.54)	1.00 (0.65-1.54)
South East	1.42 (0.85-2.35)	1.42 (0.85-2.35)
South West	1.11 (0.71-1.74)	1.11 (0.71-1.74)
West Midlands	1.31 (0.85-2.03)	1.32 (0.85-2.04)
Yorkshire & Humber	1.29 (0.79-2.09)	1.29 (0.79-2.09)
Household Size		
2 people	1	1
3-5 people	1.03 (0.89-1.19)	1.06 (0.91-1.22)
6-9 people	0.88 (0.71-1.09)	0.90 (0.73-1.13)
10 or more people	1.26 (0.79-1.89)	1.25 (0.83-1.90)
Comorbidities		
Diabetes (type 1)	3.55 (2.16-5.81)	3.55 (2.16-5.81)
Asthma	1.18 (1.02-1.37)	1.18 (1.02-1.37)
Congenital heart disease	1.84 (1.28-2.64)	1.83 (1.28-2.64)
Cerebral Palsy	2.87 (1.58-5.23)	2.87 (1.58-5.23)
Epilepsy	2.88 (1.99-4.17)	2.88 (1.99-4.17)
Sickle cell disease	3.81(1.43-10.16)	3.79 (1.42-10.11)

eTable 10: Comparison of maximally adjusted regression estimates for logistic regression and relative risk regression regression in the analysis exploring the association between race and hospital admission. Adjusted for age, sex, deprivation level, household size, geographical region and comorbidities.

Maximally adjusted Maximally adjusted relative risk regression Logistic Regression RR (95% CI) OR (95%CI) Race White 1 1 1.68(1.20-2.36) 1.62 (1.12-2.36) Asian 1.44 (0.9-2.31) Black 1.45 (0.86-2.44) Mixed/Other 1.49 (1.00-2.2) 1.40 (0.93-2.10) Age Category 0-3 months 1 3-12 months 0.38 (0.27-0.55) 0.38 (0.26-0.56) 0.10 (0.069-0.14) 0.10 (0.07-0.14) 2-5 years 6-10 years 0.057 (0.04-0.08) 0.06 (0.04-0.08) 0.072 (0.05-0.10) 0.07 (0.05-0.10) 11-15 years 16-18 years 0.11(0.08-0.16) 0.11 (0.08-0.16) Sex Female 1 Male 1.19 (0.96-1.48) 1.19 (0.97-1.47) **Townsend Quintile** 1 (least deprived) 1 1 2 1.01 (0.69-1.50) 1.01 (0.68-1.50) 3 1.24 (0.85-1.80) 1.24 (0.84-1.83) 4 1.20 (0.82-1.76) 1.21 (0.83-1.77) 5 (most deprived) 1.48 (1.00-2.20) 1.48 (1.00-2.20) Region East Midlands 1 1.31 (0.47-3.67) 1.31 (0.51-3.33) East of England London 1.35 (0.55-3.33) 1.37 (0.60-3.09) 0.72 (0.22-2.38) North East 0.72 (0.2-2.70) 1.21 (0.54-2.08) North West 1.21 (0.48-3.02) South Central 0.86 (0.33-2.21) 0.86 (0.36-2.08) South East 1.10(0.43-2.83) 1.10 (0.46-2.60) South West 0.79 (0.32-1.95) 0.79 (0.33-2.21) West Midlands 1.17 (0.46-2.99) 1.18 (0.51-2.75) Yorkshire & Humber 0.61 (0.18-2.11) 0.61 (0.20-1.88) **Household Size** 1 2 people 0.94 (0.70-1.24) 0.94 (0.7-1.26) 3-5 people 6-9 people 1.1 (0.72-1.66) 1.12 (0.76-1.67) 10 or more people 0.90 (0.33-2.47) 0.87 (0.31-2.45) Comorbidities 10.13 (4.14-24.86) 10.11 (4.12-24.80) Diabetes (type 1) 1.43 (0.94-2.19) 1.43 (0.95 - 2.16) Asthma Congenital heart disease 2.69 (1.26-5.72) 2.69 (1.27-5.71) 7.96 (2.70-22.76) Cerebral Palsy 7.97 (3.3-19.07) Epilepsy 6.17 (3.14-12.12) 6.17 (2.77-13.73) Sickle cell disease 8.18 (1.98-33.78) 8.24 (2.02-33.51)

OR= Odds Ratio, RR= Risk Ratio 95%CI= 95% confidence interval.

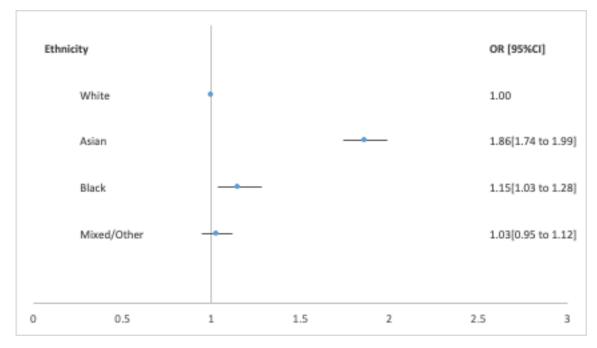
eTable 11: Comparison of maximally adjusted regression estimates for logistic regression and relative risk regression in the analysis exploring the association between race and intensive care admission. Adjusted for age, sex, deprivation level, household size and comorbidities. *OR*= *Odds Ratio, RR*= *Risk Ratio* 95%*CI*= 95% *confidence interval.*

	Maximally adjusted	Maximally adjusted
	relative risk regression	Logistic Regression
	RR (95% CI)	OR (95%CI)
Race		
White	1	1
Asian	2.30 (1.13 -4.70)	2.11 (1.07-4.14)
Black	1.56 (0.51 – 4.80)	1.35 (0.47-3.87)
Mixed/Other	1.47 (0.62-3.51)	1.20 (0.48-3.01)
Age category		
0-3 months	1	1
3-12 months	0.12 (0.05-0.29)	0.12 (0.05-0.28)
2-5 years	0.05 (0.03-0.10)	0.05 (0.02-0.11)
6-10 years	0.04 (0.02-0.07)	0.04 (0.02-0.07)
11- 15 years	0.04 (0.02-0.09)	0.04 (0.02-0.09)
16- 18 years	0.03 (0.01-0.08)	0.03 (0.01-0.08)
Sex		
Female	1	1
Male	1.49 (0.93-2.39)	1.49 (0.92-2.41)
Townsend Quintile		
1 (least deprived)	1	1
2	1.21 (0.46-3.19)	1.37 (0.44-3.10)
3	1.78 (0.72-4.36)	1.80 (0.74-4.40)
4	1.22 (0.46-3.24)	1.25 (0.49-3.19)
5 (most deprived)	2.44 (0.95-6.26)	2.46 (1.00-6.05)
Household Size		
2 people	1	1
3-5 people	1.26 (0.63-2.53)	1.31 (0.6-2.84)
6-9 people	0.98 (0.34-2.84)	1.05 (0.36-3.09)
10 or more people	1.84 (0.40-8.42)	1.99 (0.40-9.79)
Comorbidities		
Diabetes (type 1)	10.45 (1.37-79.4)	10.35 (1.23-87.30)
Asthma	1.17 (0.41-3.33)	1.17 (0.40-3.41)
Congenital heart disease	9.52 (3.66-24.78)	9.4 (3.79-26.54)
Cerebral Palsy	25.21 (7.19-88.36)	25.16 (4.53-139.83)
Epilepsy	6.82 (1.95-23.74)	6.81 (1.27-36.46)
Sickle cell disease	17.00 (2.07-139.70)	18.31 (2.22-150.95)

Race	Race Before		2	3	4	5	6	7	8	9	10
	imputation (col %)	(col %)	(col %)	(col %)	(col %)	(col %)	(col %)	(col %)	(col %)	(col %)	(col %)
White	1,311,041 (73.0)	1,903, 718 (73.9)	1,901, 699 (73.8)	1,902, 907 (73.8)	1,902, 176 (73.8)	1,902, 674 (73.8)	1,901, 776 (73.8)	1,902, 769 (73.8)	1,902, 605 (73.8)	1,902, 266 (73.8)	1,901, 713 (73.8)
Asian	243,545 (13.5)	338,27 5 (13.1)	339,57 9 (13.1)	339,01 6 (13.1)	338,82 9 (13.1)	339,02 6 (13.1)	339,58 1 (13.1)	339,15 6 (13.1)	339,20 1 (13.1)	339,16 6 (13.1)	338,69 4 (13.1)
Black	93,620 (5.2)	126,26 1 (4.9)	126,60 5 (4.9)	126,64 5 (4.9)	126,96 1 (4.9)	126,48 2 (4.9)	126,83 9 (4.9)	126,54 0 (4.9)	126,65 8 (4.9)	126,90 3 (4.9)	127,17 3 (4.9)
Mixed/ Other	147,529 (8.2)	207,99 9 (8.1)	208,47 0 (8.1)	207,78 5 (8.1)	208,38 7 (8.1)	208,17 1 (8.1)	208,15 7 (8.1)	207,88 8 (8.1)	207,88 9 (8.1)	208,01 8 (8.1)	208,77 3 (8.1)
Total	1,795,735	2,576, 353									

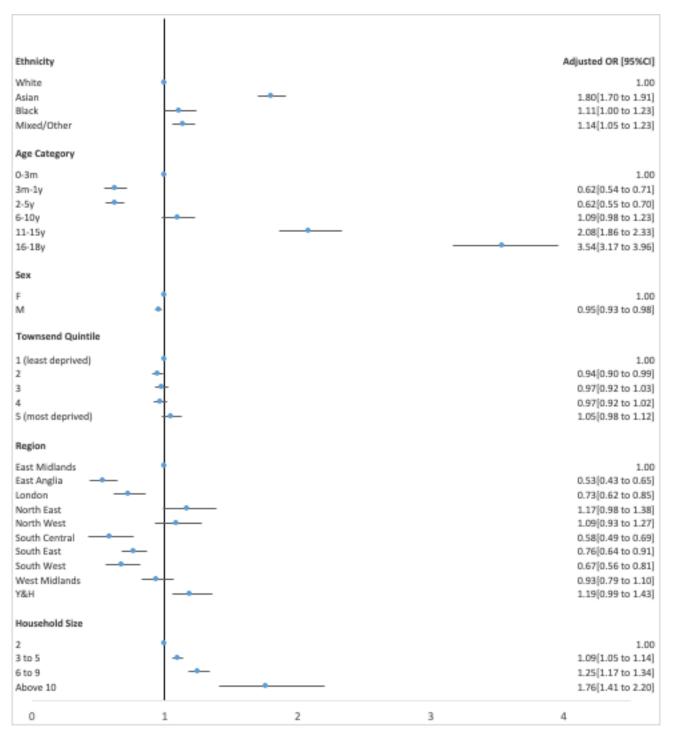
eTable 12: Study population according to race before and after imputation

eFigure 1a. Univariate regression analysis exploring the association between race and having a positive SARS-CoV-2 test (if tested).



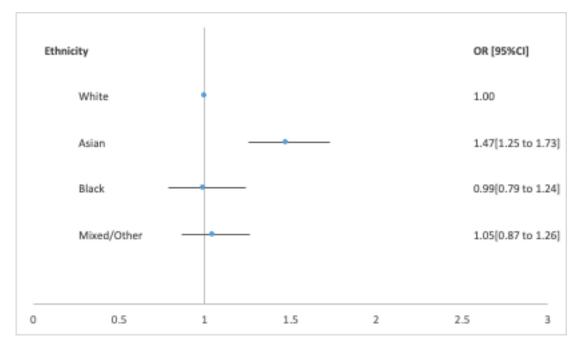
Univariate logistic regression analysis exploring the association between Race and having a positive SARS-CoV-2 test (if tested). OR= Odds Ratio, 95%CI= 95% confidence interval.

eFigure 1b. Adjusted regression analysis exploring the association between race and having a positive SARS-CoV-2 test (if tested).

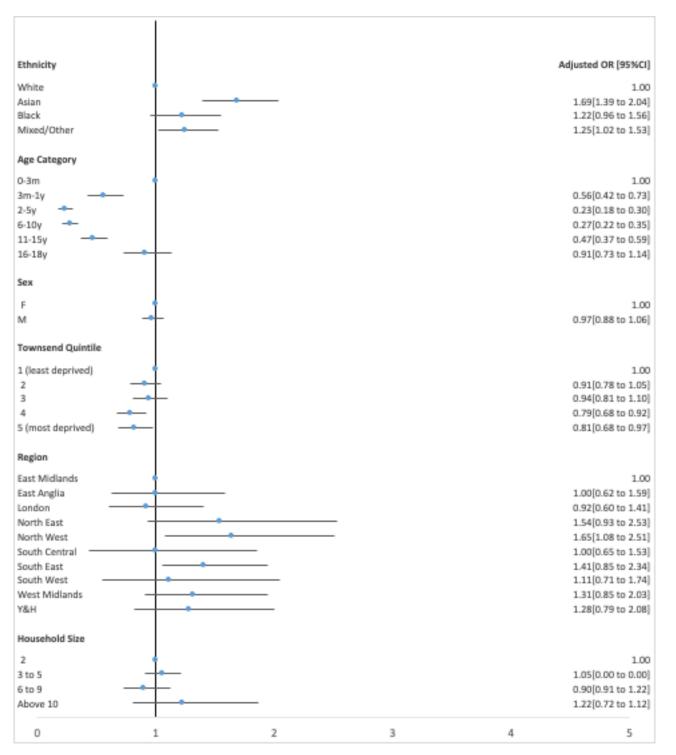


Adjusted logistic regression analysis exploring the association between Race and having a positive SARS-CoV-2 test (if tested). Adjustment for demographics only (age, sex, deprivation level, region and household size). Y&H = Yorkshire & Humber OR= Odds Ratio, 95%CI= 95% confidence interval.

eFigure 2a. Univariate regression analysis exploring the association between race and hospital contact (any admission or attendance to hospital).

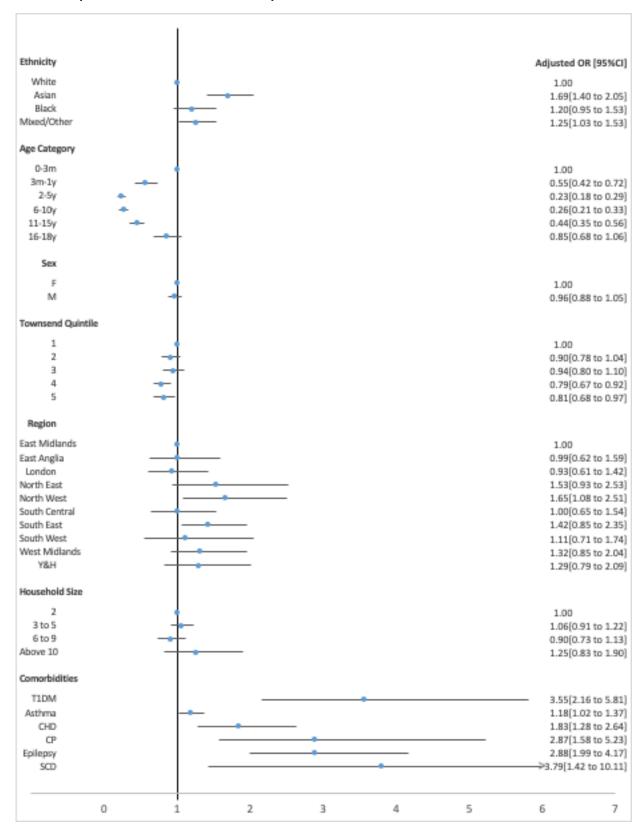


Univariate logistic regression analysis exploring the association between Race and any hospital contact (any admission or attendance to hospital). OR= Odds Ratio, 95%CI= 95% confidence interval. eFigure 2b. Adjusted regression analysis exploring the association between race and hospital contact (any admission or attendance to hospital).



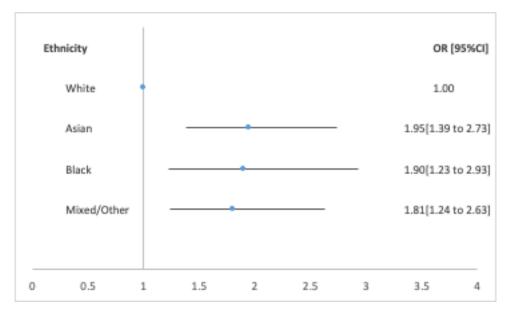
Adjusted logistic regression analysis exploring the association between Race and any hospital contact (any admission or attendance to hospital). Adjustment for demographics only (age, sex, deprivation level, region and household size). Y&H = Yorkshire & Humber OR= Odds Ratio, 95%CI= 95% confidence interval.

eFigure 2c. Adjusted regression analysis exploring the association between race and hospital contact (admission or attendance).



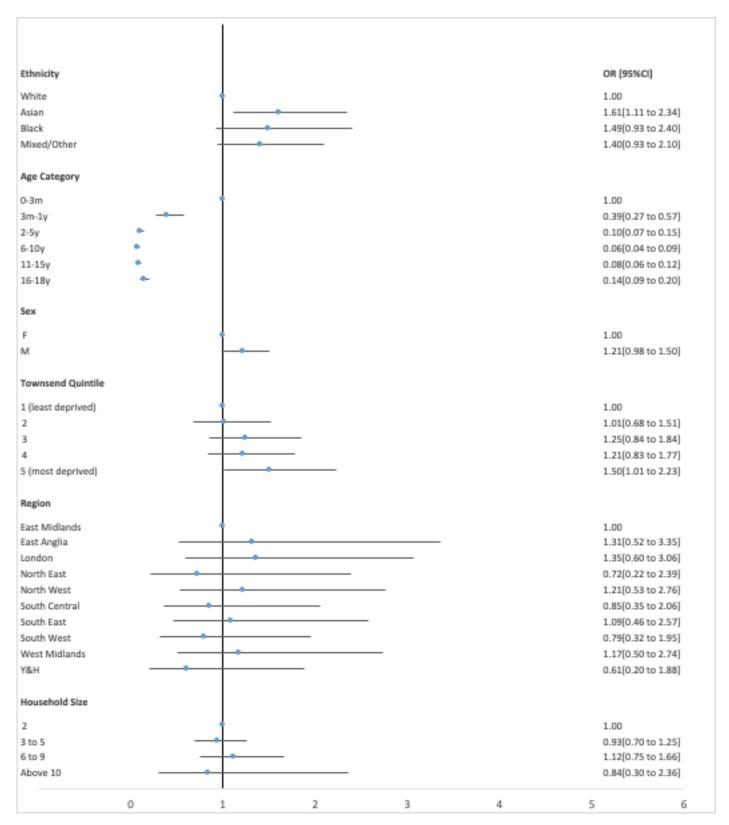
Maximally adjusted logistic regression analysis exploring the association between Race and any hospital contact (any admission or attendance to hospital). Adjustment for demographics (age, sex, deprivation level, region and household size) and all relevant comorbidities (asthma, type 1 diabetes, congenital heart disease, cerebral palsy, epilepsy, sickle cell disease). Y&H = Yorkshire & Humber, CHD= congenital heart disease, T1DM = Type 1 Diabetes, CP= Cerebral Palsy, SCD= Sickle Cell Disease, OR= Odds Ratio, 95%CI= 95% confidence interval.

eFigure 3a. Univariate regression analysis exploring the association between race and hospital admission.



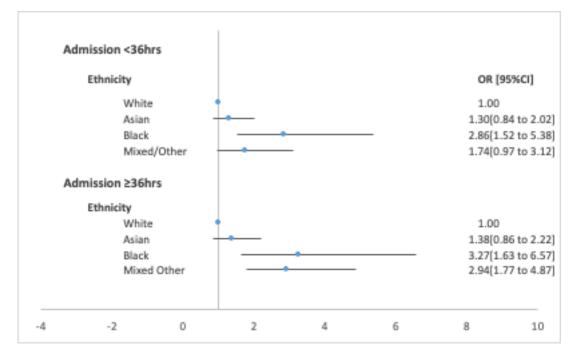
Univariate logistic regression analysis exploring the association between Race and hospital admission. OR= Odds Ratio, 95%CI= 95% confidence interval.

eFigure 3b. Adjusted regression analysis exploring the association between race and hospital admission.



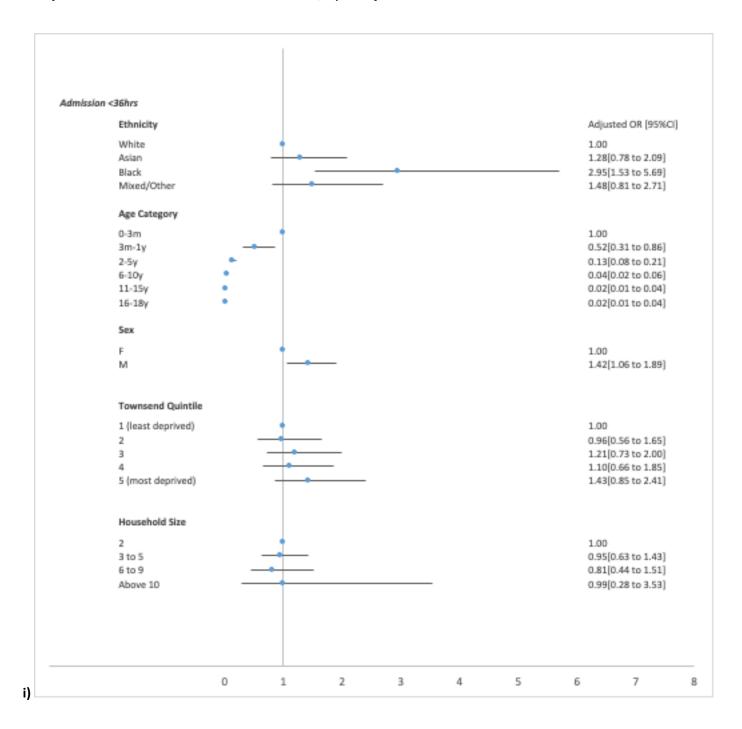
Adjusted logistic regression analysis exploring the association between Race and hospital admission. Adjustment for demographics only (age, sex, deprivation level, region and household size). Y&H = Yorkshire & Humber OR= Odds Ratio, 95%CI= 95% confidence interval.

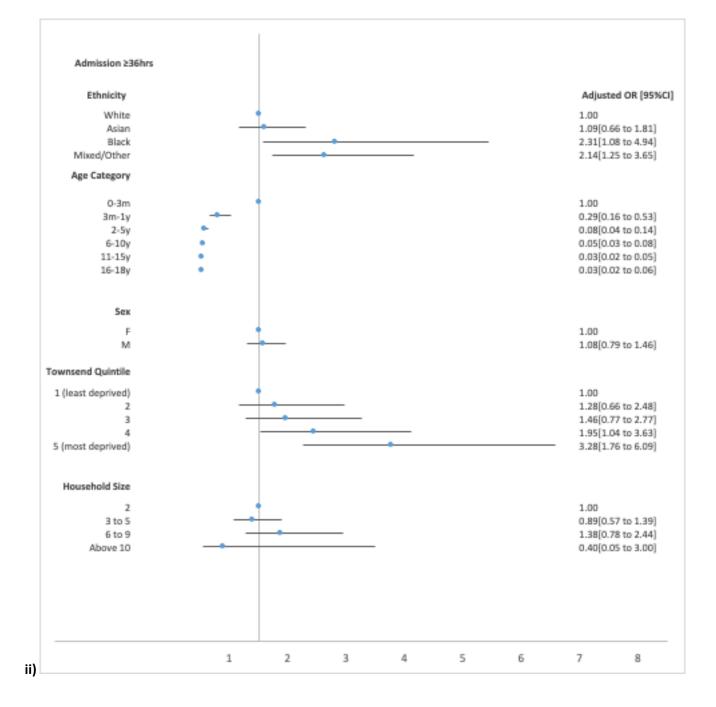
eFigure 4a. Univariate regression analysis exploring the association between race and i) hospitalization duration <36 hours and, ii) hospitalization duration ≥36 hours.



Univariate logistic regression analysis exploring the association between Race and i) hospitalization duration <36 hours and, ii) hospitalization duration ≥36 hours. OR= Odds Ratio, 95%CI= 95% confidence interval.

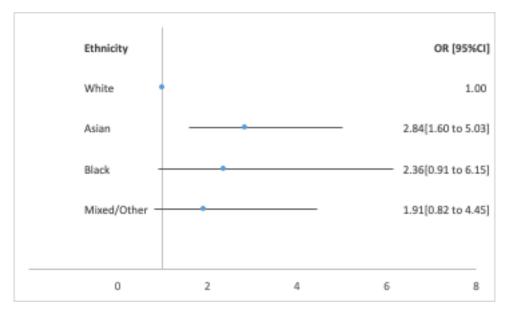
eFigure 4b. Adjusted regression analysis exploring the association between race and i) hospitalisation duration <36 hours and, ii) hospitalisation duration ≥36 hours.





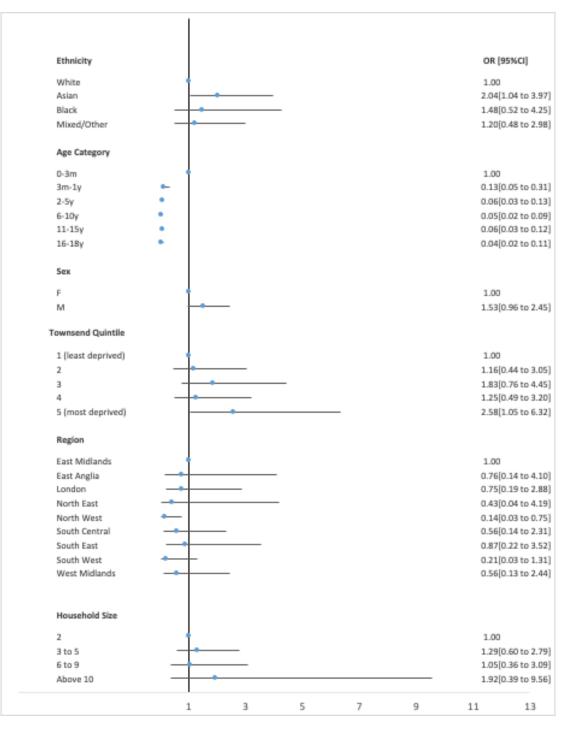
Adjusted logistic regression analysis exploring the association between Race and i) hospitalization duration <36 hours and, ii) hospitalization duration ≥36 hours. Adjustment for demographics (age, sex, deprivation level and household size) with outcome. OR= Odds Ratio, 95%CI= 95% confidence interval.

eFigure 5a. Univariate regression analysis exploring the association between race and intensive care admission.



Univariate logistic regression analysis exploring the association between Race and intensive care admission. OR= Odds Ratio, 95%CI= 95% confidence interval.

eFigure 5b. Adjusted regression analysis exploring the association between race and intensive care admission.



Adjusted logistic regression analysis exploring the association between Race and intensive care admission. OR= Odds Ratio, 95%CI= 95% confidence interval. Adjustment for demographics only (age, sex, deprivation level, region and household size). Y&H = Yorkshire & Humber OR= Odds Ratio, 95%CI= 95% confidence interval.

eFigure 5c. Adjusted regression analysis exploring the association between race and intensive care admission.

	1															
Ethnicity															OR [95%CI
White	1															.00
Asian														2.11[1	L.07 to 4	
Black	-														5[0.47 t	
Mixed/Other	-														0(0.48 t	
Age Category																
0-3m	t i															.00
3m-1y	•														2[0.05 t	
2-5y	•														5[0.02 t	
6-10y	•														4[0.02 t	
11-15y	•														4[0.02 t	
16-18y	•													0.0	3[0.01 t	o 0.08
Sex																
F	•															.00
M	-													1.4	9[0.92 t	o 2.41
Townsend Quintile																
1 (least deprived)	•															.00
2	-	-													7[0.44 t	
3	-														0[0.74 t	
4	-	-													5[0.49 t	
5 (most deprived)	-		_											2.4	6[1.00 t	o 6.05
Region																
East Midlands	•														1	.00
East Anglia														0.7	6[0.14 t	o 4.16
London	-														B[0.20 t	
North East	-														3[0.04 t	
North West	-														4[0.03 t	
South Central															8[0.14 t	
South East															8[0.14 t	
South West															1[0.22 t	
West Midlands	•														1[0.03 t	
Household Size																
2																.00
2 3 to 5	1													1.2	1 1[0.60 t	
5 to 5 6 to 9															1[0.60 t 5[0.36 t	
Above 10	1-				_									1.0	9[0.40 t	0 9 70
Above 10	-													1.9	510:40 0	0 3.75
Comorbidities																
T1DM	——				-								;		(1.23 to	
Asthma	-	_												1.1	7[0.40 t	o 3.41
CHD					-									9.47	(3.79 to	26.54
CP		_											•	25.16[4	1.53 to 1	139.83
Epilepsy														6.81	[1.27 to	36.46
SCD	-								•				\rightarrow	18.31[2	2.22 to 1	150.95
	0 2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32

Maximally adjusted logistic regression analysis exploring the association between Race and intensive care admission. OR= Odds Ratio, 95%CI= 95% confidence interval. Adjustment for demographics (age, sex, deprivation level, region and household size) and all relevant comorbidities (asthma, type 1 diabetes, congenital heart disease, cerebral palsy, epilepsy, sickle cell disease). T1DM = Type 1 Diabetes, CP= Cerebral Palsy, SCD= Sickle Cell Disease. OR= Odds Ratio, 95%CI= 95% confidence interval

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