

ONLINE SUPPLEMENTARY CONTENT

Table SI - Association of race with transfusion among patients with and without anaemia

Database	Anaemia	Race	Transfusion (n transfused, [% of patients identifying as that race])	OR (95% CI) for transfusion in Black vs White patients	p for OR >1.00	p for interaction of anaemia and race on transfusion
UHS	No	Black White	39 (0.4%) 207 (0.3%)	1.56 (1.11-2.20)	0.01	0.06
	Yes	Black White	22 (1.6%) 78 (1.8%)	0.89 (0.55-1.43)	0.72	
CSL	No	Black White	484 (1.7%) 4,154 (4.4%)	0.38 (0.35-0.42)	<0.0001	<0.0001
	Yes	Black White	210 (3.8%) 658 (5.2%)	0.72 (0.61-0.84)	<0.0001	
CR	No	Black White	347 (2.6%) 623 (1.6%)	1.60 (1.40-1.82)	<0.0001	0.007
	Yes	Black White	262 (11.7%) 256 (10.2%)	1.17 (0.98-1.41)	0.09	

Table SII - Association of anaemia with transfusion among Black and White patients

Database	Race	Anemia	Transfusion*	OR (95% CI) for transfusion in patients with vs without anaemia	p for OR >1.00	p for interaction of anaemia and race on transfusion
UHS	Black	No Yes	39 (0.4%) 22 (1.6%)	3.60 (2.13-6.09)	<0.0001	0.06
		White	No Yes	207 (0.3%) 78 (1.8%)	6.31 (4.85-8.20)	<0.0001
CSL	Black	No Yes	484 (1.7%) 210 (3.8%)	2.24 (1.90-2.64)	<0.0001	<0.0001
		White	No Yes	4145 (4.4%) 658 (5.2%)	1.19 (1.10-1.30)	<0.0001
CR	Black	No Yes	347 (2.6%) 262 (11.7%)	5.07 (4.29-6.00)	<0.0001	0.007
		White	No Yes	623 (1.6%) 246 (10.2%)	6.91 (5.94-8.04)	<0.0001

*n transfused, (% of patients identifying as that race).

Table SIII - Race and transfusion evaluated by delivery mode

Database	Delivery mode	Black	Univariable			Multivariable	
			n	Transfusion n (%)	p	aOR for Transf., Black vs non Black (95% CI)	p
UHS	Vaginal	No	49,471	111 (0.2%)	0.21		
		Yes	6,206	19 (0.3%)		1.16 (0.70-1.91)	0.57
	VBAC*	No	497	2 (0.4%)	0.99		
		Yes	94	0		NA [†]	0.87
	CS [‡]	No	27,279	172 (0.6%)	0.004		
		Yes	3,918	42 (1.1%)		1.22 (0.85-1.75)	0.28
	Vaginal	No	69,979	2,868 (4.1%)	<0.0001		
		Yes	20,908	212 (1.0%)		0.25 (0.21-0.30)	<0.0001
	Vaginal assisted	No	6,538	401 (6.1%)	<0.0001		
		Yes	1,023	16 (1.6%)		0.24 (0.13-0.44)	<0.0001
	VBAC	No	2,727	115 (4.2%)	<0.0001		
		Yes	959	13 (1.4%)		0.40 (0.19-0.82)	0.012
	CS	No	17,141	862 (5.0%)	0.02		
		Yes	6,666	286 (4.3%)		0.61 (0.50-0.74)	<0.0001
	Repeat CS	No	10,473	566 (5.4%)	0.006		
		Yes	3,910	167 (4.3%)		0.73 (0.57-0.92)	0.008
CR	Failed VBAC	No	2,956	71 (2.4%)	0.0002		
		Yes	1,839	81 (4.4%)		1.34 (0.91-1.97)	0.14
	Primary CS	No	16,052	460 (2.9%)	<0.0001		
		Yes	7,263	295 (4.1%)		1.18 (0.98-1.41)	0.074
	Repeat CS	No	22,111	348 (1.6%)	<0.0001		
		Yes	6,743	233 (3.5%)		1.49 (1.22-1.83)	0.0001

* VBAC: Vaginal birth after caesarean section. [†]NA: too few events to estimate an OR. [‡]CS: Caesarean section.

Table SIV - Race and transfusion evaluated by delivery mode, including imputed data

Database	Total n (% imputed)	Type of Delivery	Black	n (% imputed)	Transfusion (n, % of deliveries within demographic)	p
UHS	107,138 (18.36%)	CS	No	34,366 (20.62%)	220 (0.64%)	0.0015
			Yes	3,968 (1.26%)	44 (1.11%)	
		Vaginal	No	61,793 (19.14%)	127 (0.21%)	0.046
			Yes	6,318 (0.28%)	21 (0.33%)	
CR	56,964 (0%)	Primary CS	No	15,917 (0.84%)	445 (2.8%)	<0.0001
			Yes	7,398 (1.82%)	310 (4.32%)	
		Repeat CS	No	22,028 (0.38%)	340 (1.5%)	<0.0001
			Yes	6,826 (1.22%)	241 (3.5%)	
CSL	159,107 (11.81%)	CS	No	31,694 (12.87%)	1,535 (4.8%)	0.0002
			Yes	11,505 (8.07%)	461 (4.0%)	
		Vaginal	No	87,711 (9.65%)	3,439 (3.9%)	<0.0001
			Yes	23,987 (4.57%)	230 (1.0%)	

Table SV - Adjusted associations of transfusion among Black patients compared to non-Black patients using imputed data, stratified by delivery mode

Database	Delivery	aOR	95% CI	p
UHS	CS	1.36	0.97-1.89	0.074
	Vaginal	1.27	0.79-2.03	0.32
CR	Primary CS	1.27	1.07-1.50	0.007
	Repeat CS	1.51	1.25-1.83	<0.0001
CSL	CS	0.80	0.71-0.89	<0.0001
	Vaginal	0.27	0.24-0.31	<0.0001