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DATA Supplement

Ethnic-specific relationships between haemostatic and oxidative stress markers in black and white South Africans: the SABPA study

Running head: Ethnicity, haemostasis and oxidative stress

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Tables: 3

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Table S1: Interaction terms with ethnicity

Total group (n=390)												
	ROS, mg/L			GSH, μM			GPx, nmol/min/ml			GR, nmol/min/ml		
	Tot R ² Adj R ²	β (95% CI)	p	Tot R ² Adj R ²	β (95% CI)	P	Tot R ² Adj R ²	β (95% CI)	p	Tot R ² Adj R ²	β (95% CI)	p
vWF*Ethnicity	0.38	0.485	0.007	0.37	-0.471	0.045	0.39	-0.693	<0.001	NS		
	0.37	(0.136 to 0.834)		0.37	(-0.932 to -0.010)		0.39	(-1.005 to -0.381)				
Fibrinogen*Ethnicity	NS			0.13	-0.575	0.037	NS			NS		
				0.12	(-1.114 to -0.036)							
PAI-1*Ethnicity	NS			NS			NS			NS		
D-dimer*Ethnicity	0.11	0.419	0.037	NS			NS			0.08	-0.459	0.004
	0.10	(0.029 to 0.867)								0.07	(-0.773 to -0.145)	
CLT*Ethnicity	NS			NS			0.12	-0.523	0.008	NS		
							0.11	(-0.905 to -0.141)				

Abbreviations: ROS, reactive oxygen species; GSH, glutathione; GPx, Glutathione peroxidase, GR, glutathione reductase; vWF, von Willebrand factor; PAI-1, plasminogen activator inhibitor-1; CLT, clot lysis time.

Table S2: Multiple regression analyses of haemostatic markers with oxidative stress markers, after additional adjustment for high sensitivity C-reactive protein.

Black (n=175)												
Independent variables	von Willebrand factor, %			Fibrinogen, g/L			Plasminogen activator inhibitor-1, ng/ml			Clot lysis time, min		
	Tot R ² Adj R ²	β (95% CI)	p	Tot R ² Adj R ²	β (95% CI)	P	Tot R ² Adj R ²	β (95% CI)	p	Tot R ² Adj R ²	β (95% CI)	p
ROS, mg/L		NS			NS			NS			NS	
GSH, μM	0.16 0.13	-0.195 (-0.344 to -0.046)	0.012		NS		0.13 0.09	-0.273 (-0.426 to -0.120)	<0.001	0.41 0.37	-0.156 (-0.289 to -0.023)	0.022
GPx, nmol/min/ml	0.13 0.12	-0.242 (-0.387 to -0.097)	<0.001		NS			NS		0.42 0.38	-0.186 (-0.311 to -0.061)	0.005
GR, nmol/min/ml		NS			NS		0.13 0.09	0.241 (0.088 to 0.394)	0.002	0.41 0.38	0.198 (0.069 to 0.327)	0.003
White (n=206)												
ROS, mg/L		NS		0.43 0.40	0.203 (0.050 to 0.356)	0.010		NS		0.56 0.54	0.140 (0.032 to 0.246)	0.011
GSH, μM		NS			NS			NS			NS	
GPx, nmol/min/ml		NS			NS			NS			NS	
GR, nmol/min/ml	0.11 0.08	0.141 (0.008 to 0.274)	0.041		NS			NS			NS	

Abbreviations: ROS, reactive oxygen species; GSH, glutathione; GPx, Glutathione peroxidase; GR, glutathione reductase. Adjusted for age, body mass index, gender, gamma glutamyl transferase, current smoking, physical activity, glycosylated haemoglobin A1c, total cholesterol: high density lipoprotein ratio, high sensitivity C-reactive protein, 24-hour systolic blood pressure and contraception usage.

Table S3: Multiple regression analyses of haemostatic markers with oxidative stress markers, after additional adjustment for interleukin-6.

Black (n=175)												
Independent variables	von Willebrand factor, %			Fibrinogen, g/L			Plasminogen activator inhibitor-1, ng/ml			Clot lysis time, min		
	Tot R ² Adj R ²	β (95% CI)	p	Tot R ² Adj R ²	β (95% CI)	P	Tot R ² Adj R ²	β (95% CI)	P	Tot R ² Adj R ²	β (95% CI)	p
ROS, mg/L		NS		0.40 0.38	0.248 (0.101 to 0.395)	<0.001		NS			NS	
GSH, μM	0.16 0.14	-0.214 (-0.363 to -0.065)	0.005		NS		0.12 0.08	-0.246 (-0.401 to -0.091)	0.002	0.43 0.40	-0.305 (-0.438 to -0.172)	<0.001
GPx, nmol/min/ml	0.19 0.16	-0.244 (-0.389 to -0.099)	0.001		NS			NS		0.44 0.41	-0.189 (-0.312 to -0.066)	0.003
GR, nmol/min/ml	0.16 0.13	0.170 (0.023 to 0.317)	0.025		NS		0.13 0.06	0.237 (0.076 to 0.398)	0.005	0.43 0.40	0.165 (0.038 to 0.292)	0.013
White (n=206)												
ROS, mg/L		NS		0.39 0.37	0.351 (0.208 to 0.494)	<0.001		NS		0.57 0.55	0.147 (0.037 to 0.257)	0.010
GSH, μM		NS			NS			NS			NS	
GPx, nmol/min/ml		NS			NS			NS			NS	
GR, nmol/min/ml		NS			NS			NS			NS	

Abbreviations: ROS, reactive oxygen species; GSH, glutathione; GPx, Glutathione peroxidase, GR, glutathione reductase. Adjusted for age, body mass index, gender, gamma glutamyl transferase, current smoking, physical activity, glycosylated haemoglobin A1c, total cholesterol: high density lipoprotein ratio, Interleukin-6, 24-hour systolic blood pressure and contraception usage.