

Supplementary Information

Table I. Interactions of sex and ethnicity on cytokines.

	cSBP		24 hr SBP	
	Ethnicity	Sex	Ethnicity	Sex
	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>
CRP	0.004	0.004	0.089	0.015
Fractalkine	0.008	0.54	0.25	0.51
INF- γ	0.83	0.15	0.25	0.90
IL-1 β	0.60	0.32	0.25	0.14
IL-2	0.56	0.032	0.59	0.17
IL-7	0.28	0.46	0.52	0.45
IL-8	0.16	0.072	0.17	0.18
IL-12	0.75	0.076	0.43	0.32
IL-17 A	0.52	0.010	0.53	0.11
IL-23	0.59	0.18	0.59	0.96
ITAC	0.89	0.54	0.76	0.43
MIP-1 α	0.57	0.52	0.30	0.48
MIP-1 β	0.94	0.080	0.63	0.92
MIP-3 α	0.73	0.15	0.21	0.22
TNF- α	0.94	0.11	0.17	0.28
IL-4	0.99	0.90	0.030	0.36
IL-5	0.94	0.29	0.43	0.51
IL-10	0.91	0.24	0.39	0.31
IL-13	0.86	0.89	0.71	0.70
IL-6	0.84	0.44	0.17	0.73
IL-21	0.98	0.27	0.18	0.63
GM-CSF	0.80	0.82	0.022	0.48

Table II. A comparison of cytokine concentrations between normotensive black and white individuals, adjusted for age, sex and waist circumference.

	Black (n=536)	White (n=507)	<i>p</i>
Inflammatory Markers			
<i>Pro-Inflammatory</i>			
CRP (mg/L)	1.12 (1.01; 1.25)	0.65 (0.58; 0.72)	<0.001
Fractalkine (pg/mL)	28.1 (26.7; 29.7)	29.92 (28.3;31.6)	0.77
INF- γ (pg/mL)	6.76 (6.30; 7.24)	7.94 (7.40; 8.55)	0.002
IL-1 β (pg/mL)	0.97 (0.91; 1.05)	1.08 (1.00; 1.17)	0.047
IL-2 (pg/mL)	0.79 (0.72; 0.87)	0.86 (0.78; 0.94)	0.23
IL-7 (pg/mL)	5.66 (5.26; 6.08)	5.68 (5.27; 6.11)	0.96
IL-8 (pg/mL)	1.76 (1.64;1.89)	1.94 (1.80; 2.08)	0.066
IL-12 (pg/mL)	1.77 (1.65; 1.91)	1.99 (1.84; 2.15)	0.032
IL-17 A (pg/mL)	3.21 (2.96; 3.48)	3.62 (3.33; 3.94)	0.042
IL-23 (pg/mL)	129 (107; 132)	136 (122; 151)	0.079
ITAC (pg/mL)	4.70 (4.41; 5.00)	3.68 (3.45; 3.93)	<0.001
MIP-1 α (pg/mL)	9.59 (8.99; 10.2)	10.5 (9.86; 11.2)	0.046
MIP-1 β (pg/mL)	7.05 (6.73; 7.40)	7.40 (7.05; 7.76)	0.17
MIP-3 α (pg/mL)	2.21 (2.06; 2.38)	1.91 (1.77; 2.06)	0.006
TNF- α (pg/mL)	1.62 (1.51; 1.73)	1.82 (1.70; 1.95)	0.018
<i>Anti-Inflammatory</i>			
IL-4 (pg/mL)	42.8 (39.5; 46.5)	44.3 (40.6; 48.1)	0.58
IL-5 (pg/mL)	0.91 (0.85; 0.99)	1.05 (0.97; 1.13)	0.018
IL-10 (pg/mL)	4.36 (4.01; 4.2)	5.48 (5.05; 5.9)	<0.001
IL-13 (pg/mL)	3.90 (3.54; 4.30)	5.24 (4.27; 5.74)	<0.001
<i>Pro- and Anti-Inflammatory</i>			
IL-6 (pg/mL)	1.85 (1.68; 2.04)	2.42 (2.19; 2.67)	<0.001
IL-21 (pg/mL)	1.33 (1.22; 1.46)	1.53 (1.40; 1.67)	0.029
GM-CSF (pg/mL)	7.21 (7.59; 7.91)	8.59 (7.82; 9.44)	0.010
<i>Pro-to-Anti Inflammatory Ratios</i>			
IL-6 to IL-10	0.42 (0.39; 0.46)	0.44 (0.41; 0.47)	0.56
IL-1 β to IL-10	0.22 (0.21; 0.23)	0.19 (0.18; 0.20)	0.002
TNF- α to IL-10	0.38 (0.36; 0.40)	0.33 (0.32; 0.35)	0.001
CRP to IL-10	0.26 (0.22; 0.30)	0.12 (0.10; 0.14)	<0.001
MIP-1 α to IL-10	2.14 (2.00; 2.30)	1.84 (1.72; 1.97)	0.002
ITAC to IL-4	0.11 (0.10; 0.12)	0.08 (0.08; 0.09)	<0.001
ITAC to IL- 5	5.21 (4.81; 5.66)	3.52 (3.56; 3.83)	<0.001
ITAC to IL-10	1.09 (1.01; 1.18)	0.67 (0.62; 0.73)	<0.001
ITAC to IL-13	1.22 (1.10; 1.35)	0.71 (0.64; 0.79)	<0.001

Bold values indicate P<0.05.

Normotensive status determined using 24-hour ambulatory blood pressure.

Table III. A comparison of cytokine concentrations between hypertensive black and white individuals, adjusted for age, sex and waist circumference.

	Black (n=50)	White (n=78)	<i>p</i>
Inflammatory Markers			
<i>Pro-Inflammatory</i>			
CRP (mg/L)	1.44 (1.02; 2.04)	1.07 (0.82; 1.41)	0.21
Fractalkine (pg/mL)	27.5 (22.5; 33.6)	26.6 (22.9; 31.1)	0.82
INF- γ (pg/mL)	6.64 (5.22; 8.3)	7.64 (6.35; 9.20)	0.38
IL-1 β (pg/mL)	0.97 (0.78; 1.22)	1.12 (0.94; 1.34)	0.34
IL-2 (pg/mL)	0.66 (0.49; 0.95)	0.86 (0.66; 1.13)	0.27
IL-7 (pg/mL)	5.38 (4.21; 6.86)	5.60 (4.62; 6.78)	0.81
IL-8 (pg/mL)	1.38 (1.09; 1.75)	1.88 (1.57; 2.26)	0.051
IL-12 (pg/mL)	1.57 (1.23; 2.01)	1.89 (1.56; 2.28)	0.27
IL-17 A (pg/mL)	3.10 (2.38; 4.06)	3.44 (2.80; 4.24)	0.57
IL-23 (pg/mL)	110 (77.1; 156)	127 (96.8; 167)	0.53
ITAC (pg/mL)	5.41 (4.19; 6.98)	3.50 (2.87; 4.27)	0.012
MIP-1 α (pg/mL)	10.1 (8.00; 12.7)	8.91 (7.46; 10.7)	0.43
MIP-1 β (pg/mL)	7.38 (6.25; 8.71)	6.65 (5.85; 7.57)	0.35
MIP-3 α (pg/mL)	1.80 (1.36; 2.38)	1.95 (1.57; 2.43)	0.67
TNF- α (pg/mL)	1.48 (1.19; 1.85)	1.68 (1.41; 2.01)	0.40
<i>Anti-Inflammatory</i>			
IL-4 (pg/mL)	40.9 (31.1; 54.1)	43.3 (34.9; 53.7)	0.77
IL-5 (pg/mL)	0.69 (0.52; 0.90)	0.93 (0.76; 1.15)	0.093
IL-10 (pg/mL)	4.29 (3.28; 5.61)	5.37 (4.44; 6.73)	0.18
IL-13 (pg/mL)	3.21 (2.19; 4.69)	4.71 (3.51; 6.32)	0.13
<i>Pro- and Anti-Inflammatory</i>			
IL-6 (pg/mL)	1.31 (0.91; 1.89)	2.22 (1.67; 2.94)	0.033
IL-21 (pg/mL)	1.29 (0.92; 1.79)	1.34 (1.03; 1.73)	0.86
GM-CSF (pg/mL)	6.85 (5.07; 9.27)	8.28 (6.55; 10.5)	0.35
<i>Pro-to-Anti Inflammatory Ratios</i>			
IL-6 to IL-10	0.31 (0.23; 0.40)	0.41 (0.34; 0.51)	0.094
IL-1 β to IL-10	0.21 (0.17; 0.26)	0.20 (0.17; 0.23)	0.62
TNF- α to IL-10	0.35 (0.30; 0.40)	0.32 (0.28; 0.36)	0.41
CRP to IL-10	0.34 (0.22; 0.53)	0.19 (0.14; 0.27)	0.048
MIP-1 α to IL-10	2.28 (1.84; 2.82)	1.57 (1.33; 1.85)	0.011
ITAC to IL-4	0.13 (0.10; 0.18)	0.08 (0.06; 0.10)	0.018
ITAC to IL- 5	7.67 (5.78; 10.2)	3.78 (3.03; 4.69)	<0.001
ITAC to IL-10	1.26 (0.97; 1.63)	0.65 (0.53; 0.80)	<0.001
ITAC to IL-13	1.69 (1.14; 2.49)	0.74 (0.55; 1.01)	0.002

Bold values indicate P<0.05.

Hypertensive status determined using 24-hour ambulatory blood pressure.

Table IV. A comparison of cytokine concentrations between black and white men, adjusted for age, sex and waist circumference.

	Black (n=307)	White (n=311)	<i>p</i>
Inflammatory Markers			
<i>Pro-Inflammatory</i>			
CRP (mg/L)	0.81 (0.70; 0.95)	0.43 (0.37; 0.51)	<0.001
Fractalkine (pg/mL)	27.6 (25.5; 29.9)	30.3 (27.9; 32.9)	0.14
INF- γ (pg/mL)	6.76 (6.12; 7.48)	7.89 (7.11; 8.75)	0.054
IL-1 β (pg/mL)	1.00 (0.91; 1.10)	1.08 (1.02; 1.19)	0.31
IL-2 (pg/mL)	0.81 (0.71; 0.93)	0.81 (0.71; 0.92)	0.97
IL-7 (pg/mL)	5.57 (5.04; 6.17)	5.77 (5.20; 6.41)	0.66
IL-8 (pg/mL)	1.74 (1.57; 1.92)	1.94 (1.75; 2.15)	0.16
IL-12 (pg/mL)	1.74 (1.57; 1.93)	1.97 (1.77; 2.19)	0.14
IL-17 A (pg/mL)	3.22 (2.87; 3.61)	3.56 (3.16; 4.01)	0.27
IL-23 (pg/mL)	118 (103; 136)	136 (118; 158)	0.20
ITAC (pg/mL)	4.75 (4.32; 5.25)	3.64 (3.29; 4.03)	0.001
MIP-1 α (pg/mL)	9.95 (9.12; 10.9)	10.5 (9.59; 11.5)	0.45
MIP-1 β (pg/mL)	7.38 (6.92; 7.89)	7.43 (6.95; 7.96)	0.89
MIP-3 α (pg/mL)	2.17 (1.95; 2.42)	1.99 (1.79; 2.22)	0.29
TNF- α (pg/mL)	1.64 (1.49; 1.79)	1.88 (1.71; 2.07)	0.056
<i>Anti-Inflammatory</i>			
IL-4 (pg/mL)	42.0 (37.4; 47.0)	46.3 (41.1; 52.1)	0.28
IL-5 (pg/mL)	0.85 (0.65; 0.95)	1.01 (0.91; 1.14)	0.047
IL-10 (pg/mL)	4.37 (3.89; 4.90)	5.55 (4.93; 6.24)	0.008
IL-13 (pg/mL)	3.82 (3.30; 4.42)	5.05 (4.35; 5.86)	0.016
<i>Pro- and Anti-Inflammatory</i>			
IL-6 (pg/mL)	1.72 (1.50; 1.97)	2.43 (2.11; 2.80)	0.002
IL-21 (pg/mL)	1.29 (1.15; 1.45)	1.54 (1.37; 1.74)	0.056
GM-CSF (pg/mL)	7.06 (6.19; 8.04)	8.83 (7.73; 10.1)	0.029
<i>Pro-to-Anti Inflammatory Ratios</i>			
IL-6 to IL-10	0.39 (0.35; 0.44)	0.44 (0.40; 0.50)	0.18
IL-1 β to IL-10	0.22 (0.20; 0.24)	0.19 (0.18; 0.21)	0.047
TNF- α to IL-10	0.38 (0.35; 0.41)	0.34 (0.32; 0.37)	0.073
CRP to IL-10	0.19 (0.16; 0.23)	0.08 (0.07; 0.10)	<0.001
MIP-1 α to IL-10	2.20 (2.00; 2.42)	1.85 (1.68; 2.04)	0.020
ITAC to IL-4	0.11 (0.10; 0.13)	0.08 (0.07; 0.09)	<0.001
ITAC to IL-5	5.68 (5.04; 6.41)	3.61 (3.18; 4.08)	<0.001
ITAC to IL-10	1.11 (0.99; 1.24)	0.65 (0.58; 0.73)	<0.001
ITAC to IL-13	1.26 (1.08; 1.48)	0.72 (0.61; 0.84)	<0.001

Bold values indicate $P < 0.05$.

Hypertensive status determined using 24-hour ambulatory blood pressure.

Table V. A comparison of cytokine concentrations between black and white women, adjusted for age, sex and waist circumference.

	Black (n=307)	White (n=311)	<i>p</i>
Inflammatory Markers			
<i>Pro-Inflammatory</i>			
CRP (mg/L)	1.64 (1.42; 1.89)	1.00 (0.86; 1.15)	<0.001
Fractalkine (pg/mL)	28.1 (26.1; 30.2)	28.8 (26.9; 31.1)	0.58
INF- γ (pg/mL)	6.73 (6.11; 7.40)	7.82 (7.11; 8.59)	0.029
IL-1 β (pg/mL)	0.96 (0.87; 1.06)	1.07 (0.97; 1.19)	0.13
IL-2 (pg/mL)	0.76 (0.67; 0.86)	0.87 (0.77; 0.99)	0.13
IL-7 (pg/mL)	5.69 (5.15; 6.28)	5.56 (5.04; 6.12)	0.74
IL-8 (pg/mL)	1.72 (1.56; 1.89)	1.90 (1.73; 2.09)	0.14
IL-12 (pg/mL)	1.77 (1.60; 1.96)	1.96 (1.77; 2.17)	0.17
IL-17 A (pg/mL)	3.18 (2.84; 3.55)	3.56 (3.18; 3.96)	0.16
IL-23 (pg/mL)	115 (103; 137)	132 (114; 151)	0.33
ITAC (pg/mL)	4.66 (4.29; 5.07)	3.69 (3.40; 4.00)	<0.001
MIP-1 α (pg/mL)	9.91 (8.47; 10.1)	10.1 (9.25; 11.0)	0.17
MIP-1 β (pg/mL)	6.84 (6.41; 7.29)	7.06 (6.62; 7.53)	0.50
MIP-3 α (pg/mL)	2.17 (1.97; 2.40)	1.82 (1.65; 2.00)	0.010
TNF- α (pg/mL)	1.58 (1.44; 1.73)	1.70 (1.56; 1.87)	0.26
<i>Anti-Inflammatory</i>			
IL-4 (pg/mL)	42.9 (38.4; 47.9)	42.6 (38.1; 47.4)	0.92
IL-5 (pg/mL)	0.91 (0.82; 1.02)	1.05 (0.95; 1.16)	0.063
IL-10 (pg/mL)	4.32 (3.87; 4.82)	5.37 (4.83; 5.97)	0.005
IL-13 (pg/mL)	3.81 (3.35; 4.35)	5.19 (4.57; 5.90)	0.001
<i>Pro- and Anti-Inflammatory</i>			
IL-6 (pg/mL)	1.80 (1.58; 2.07)	2.41 (2.11; 2.75)	0.003
IL-21 (pg/mL)	1.37 (1.21; 1.55)	1.45 (1.29; 1.63)	0.53
GM-CSF (pg/mL)	7.38 (6.53; 8.36)	8.20 (7.26; 9.27)	0.24
<i>Pro-to-Anti Inflammatory Ratios</i>			
IL-6 to IL-10	0.42 (0.38; 0.46)	0.44 (0.40; 0.49)	0.41
IL-1 β to IL-10	0.22 (0.20; 0.24)	0.19 (0.18; 0.21)	0.020
TNF- α to IL-10	0.37 (0.35; 0.40)	0.32 (0.30; 0.34)	0.001
CRP to IL-10	0.38 (0.32; 0.45)	0.19 (0.16; 0.22)	<0.001
MIP-1 α to IL-10	2.08 (1.91; 2.28)	1.73 (1.63; 1.94)	0.013
ITAC to IL-4	0.11 (0.10; 0.12)	0.09 (0.08; 0.10)	0.006
ITAC to IL-5	5.15 (4.62; 5.75)	3.50 (3.15; 3.89)	<0.001
ITAC to IL-10	1.08 (0.98; 1.20)	0.69 (0.62; 0.76)	<0.001
ITAC to IL-13	1.22 (1.07; 1.40)	0.71 (0.63; 0.81)	<0.001

Bold values indicate $P < 0.05$.

Hypertensive status determined using 24-hour ambulatory blood pressure.

Table VI. A comparison of cytokine concentrations between black and white individuals in the middle socio-economic group, adjusted for age, sex and waist circumference.

	Black (n=162)	White (n=180)	<i>p</i>
Inflammatory Markers			
<i>Pro-Inflammatory</i>			
CRP (mg/L)	1.22 (1.00; 1.49)	0.63 (0.52; 0.77)	<0.001
Fractalkine (pg/mL)	30.5 (25.7; 33.7)	29.0 (26.4; 32.0)	0.51
INF- γ (pg/mL)	7.41 (6.55; 8.39)	7.78 (6.92; 8.77)	0.59
IL-1 β (pg/mL)	1.04 (0.91; 1.18)	1.05 (0.93; 1.19)	0.85
IL-2 (pg/mL)	0.86 (0.73; 1.02)	0.81 (0.69; 0.94)	0.61
IL-7 (pg/mL)	5.70 (4.98; 6.53)	5.37 (4.72; 5.75)	0.55
IL-8 (pg/mL)	1.79 (1.56; 2.05)	1.89 (1.66; 2.16)	0.56
IL-12 (pg/mL)	1.85 (1.59; 2.14)	1.93 (1.67; 2.22)	0.67
IL-17 A (pg/mL)	3.37 (2.90; 3.91)	3.48 (3.02; 4.01)	0.76
IL-23 (pg/mL)	133 (110; 161)	130 (108; 155)	0.84
ITAC (pg/mL)	4.50 (4.00; 5.06)	3.61 (3.22; 4.04)	0.011
MIP-1 α (pg/mL)	10.0 (8.89; 11.3)	10.1 (8.99; 10.3)	0.96
MIP-1 β (pg/mL)	7.14 (6.53; 7.82)	7.29 (6.70; 7.94)	0.75
MIP-3 α (pg/mL)	2.13 (1.87; 2.42)	1.91 (1.69; 2.16)	0.26
TNF- α (pg/mL)	1.68 (1.48; 1.91)	1.73 (1.53; 1.95)	0.77
<i>Anti-Inflammatory</i>			
IL-4 (pg/mL)	47.8 (41.2; 55.3)	42.5 (36.9; 48.9)	0.27
IL-5 (pg/mL)	0.92 (0.79; 1.07)	0.97 (0.85; 1.12)	0.62
IL-10 (pg/mL)	4.52 (3.88; 5.26)	5.24 (4.54; 6.04)	0.19
IL-13 (pg/mL)	4.22 (3.50; 5.08)	4.85 (4.06; 5.79)	0.31
<i>Pro- and Anti-Inflammatory</i>			
IL-6 (pg/mL)	1.93 (1.60; 2.32)	2.32 (1.94; 2.77)	0.18
IL-21 (pg/mL)	1.47 (1.25; 1.73)	1.42 (1.22; 1.66)	0.78
GM-CSF (pg/mL)	7.87 (6.65; 9.31)	8.43 (7.19; 9.91)	0.57
<i>Pro-to-Anti Inflammatory Ratios</i>			
IL-6 to IL-10	0.43 (0.37; 0.50)	0.44 (0.38; 0.50)	0.92
IL-1 β to IL-10	0.24 (0.21; 0.26)	0.20 (0.18; 0.22)	0.017
TNF- α to IL-10	0.38 (0.35; 0.42)	0.33 (0.30; 0.36)	0.025
CRP to IL-10	0.27 (0.21; 0.35)	0.12 (0.10; 0.16)	<0.001
MIP-1 α to IL-10	2.15 (1.91; 2.42)	1.84 (1.64; 2.06)	0.074
ITAC to IL-4	0.09 (0.08; 0.11)	0.09 (0.07; 0.10)	0.39
ITAC to IL-5	4.88 (4.22; 5.64)	3.72 (3.25; 4.27)	0.011
ITAC to IL-10	1.00 (0.87; 1.15)	0.69 (0.61; 0.79)	<0.001
ITAC to IL-13	1.06 (0.88; 1.28)	0.74 (0.62; 0.88)	0.007

Bold values indicate $P < 0.05$.

Hypertensive status determined using 24-hour ambulatory blood pressure.

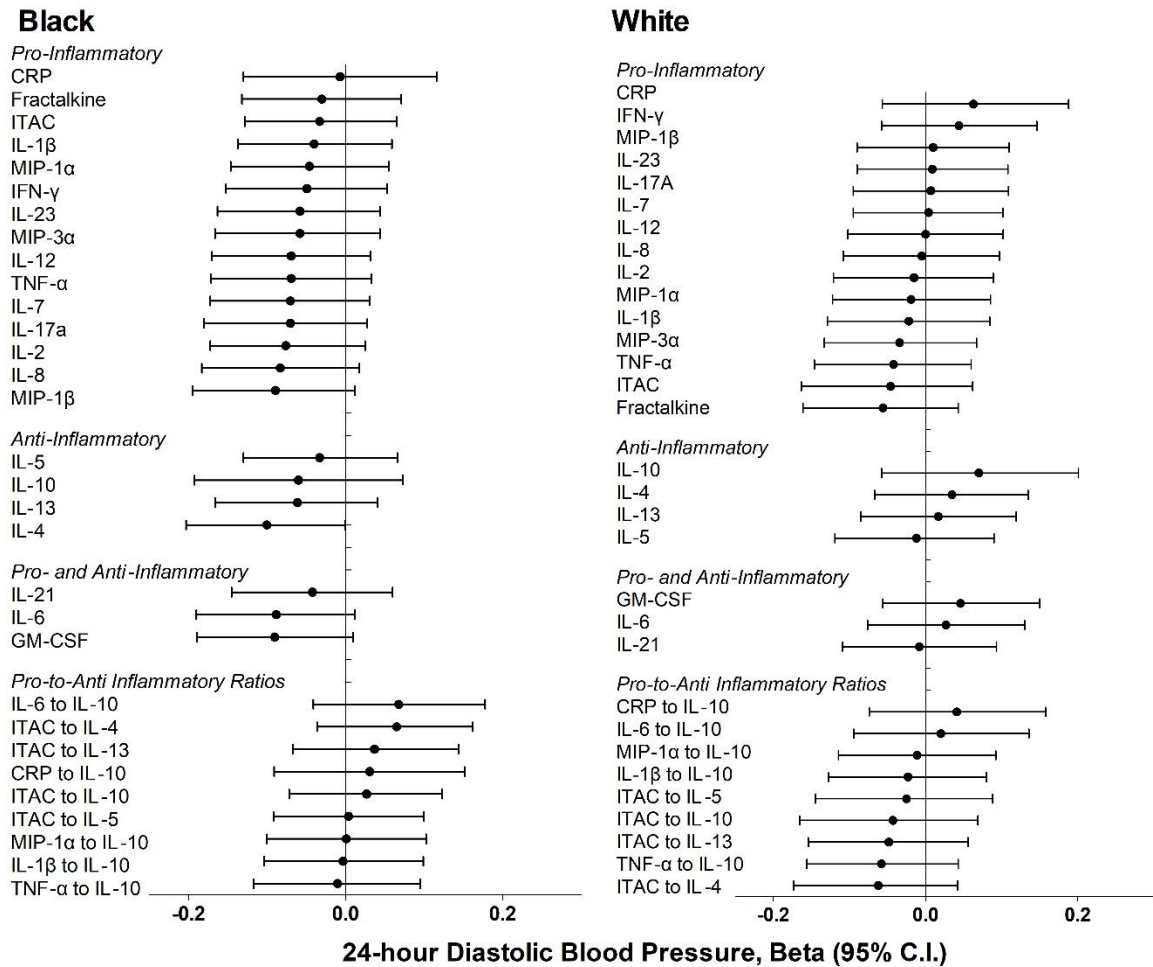


Figure I. Multiple regression analyses showing the relationship between cytokine concentrations and diastolic blood pressure in black and white adults.

Adjusted for: sex, socio-economic status, waist circumference, total cholesterol, glucose, gamma glutamyltransferase, cotinine, estimated glomerular filtration rate, activity energy expenditure.

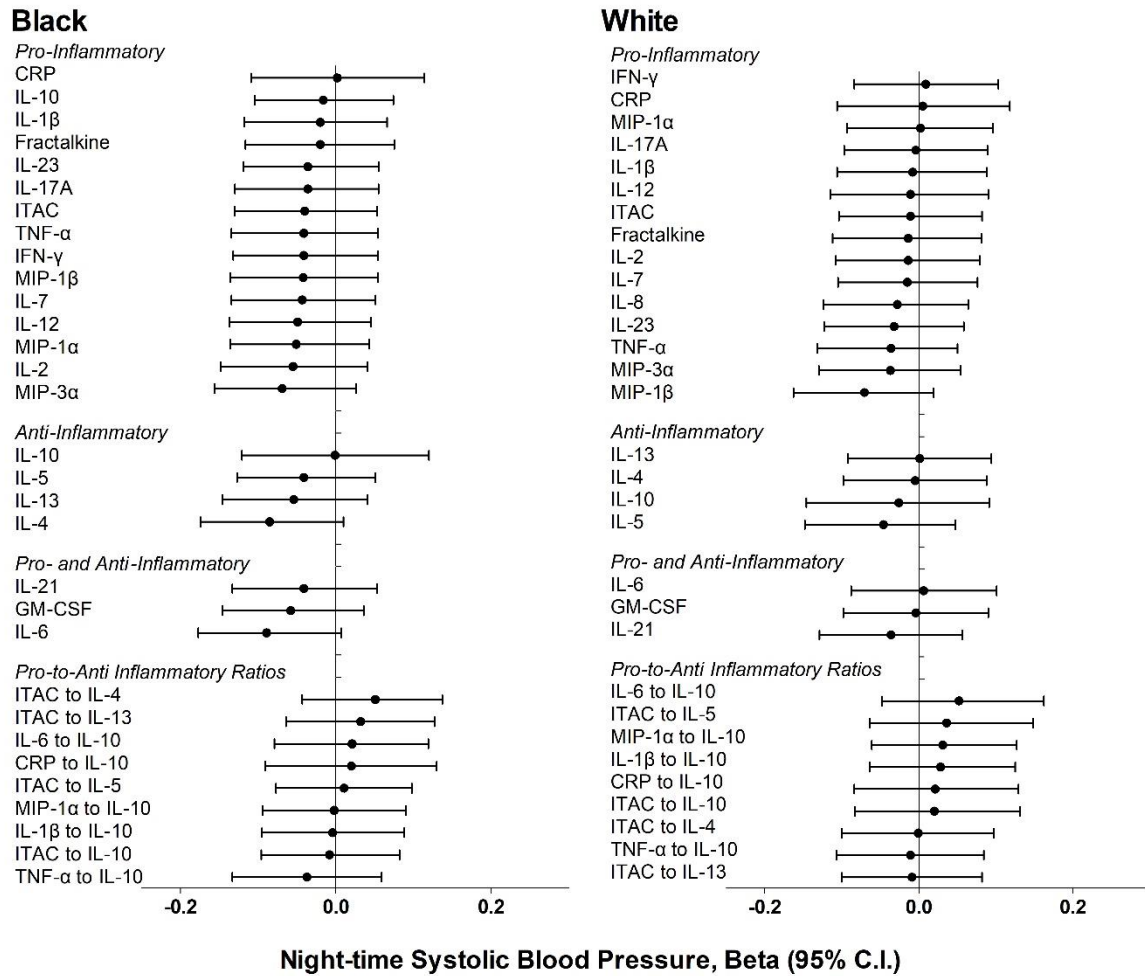


Figure II. Multiple regression analyses showing the relationship between cytokine concentrations and night-time systolic blood pressure in black and white adults.

Adjusted for: sex, socio-economic status, waist circumference, total cholesterol, glucose, gamma glutamyltransferase, cotinine, estimated glomerular filtration rate, activity energy expenditure.

Table VII. Inflammatory mediator factor scores in the total population.

	Factor 1	Factor 2	Factor 3	Factor 4
CRP				0.91
Fractalkine	0.65			
INF- γ	0.83			
IL-1 β		0.59		
IL-2		0.80		
IL-7	0.71			
IL-8			0.77	
IL-12	0.72			
IL-17 A	0.76			
IL-23	0.68			
ITAC				0.43
MIP-1 α	0.61			
MIP-1 β	0.73			
MIP-3 α		0.77		
TNF- α	0.72			
IL-4	0.83			
IL-5		0.62		
IL-10				
IL-13			0.86	
IL-6			0.82	
IL-21		0.55		
GM-CSF	0.82			
Eigenvalue	8.57	3.44	2.62	1.07
Cumulative %	71.4	68.8	87.4	53.3

Table VIII. Inflammatory mediator factor scores in the black population.

	Factor 1	Factor 2	Factor 3	Factor 4
CRP				0.81
Fractalkine	0.68			
INF- γ	0.84			
IL-1 β	0.59			
IL-2		0.84		
IL-7	0.66			
IL-8			0.77	
IL-12	0.72			
IL-17 A	0.73			
IL-23	0.63			
ITAC				0.59
MIP-1 α	0.57			
MIP-1 β	0.65			
MIP-3 α		0.73		
TNF- α	0.70			
IL-4	0.83			
IL-5		0.64		
IL-10	0.67			
IL-13			0.83	
IL-6			0.78	
IL-21		0.57		
GM-CSF	0.81			
Eigenvalue	9.16	2.82	2.60	1.08
Cumulative %	70.5	70.4	86.7	54.1

Table IX. Inflammatory mediator factor scores in the white population.

	Factor 1	Factor 2	Factor 3	Factor 4
CRP				0.99
Fractalkine	0.60			
INF- γ	0.82			
IL-1 β		0.63		
IL-2		0.76		
IL-7	0.74			
IL-8			0.80	
IL-12	0.71			
IL-17 A	0.76			
IL-23	0.70			
ITAC		0.50		
MIP-1 α	0.63	0.50		
MIP-1 β	0.74			
MIP-3 α		0.79		
TNF- α	0.69			
IL-4	0.84			
IL-5		0.61		
IL-10	0.61			
IL-13			0.87	
IL-6			0.84	
IL-21		0.56		
GM-CSF	0.81			
Eigenvalue	8.59	3.77	2.64	-
Cumulative %	71.6	62.8	88.0	-

Table X. Multiple regression analyses showing the relationship between inflammatory mediator factors and measures of blood pressure.

		24hr SBP	24hr DBP	Night-time SBP	Central SBP
Total					
	R²	0.41	0.17	0.32	0.22
Factor 1	β ± SE	-0.03 ± 0.03	-0.05 ± 0.04	-0.05 ± 0.03	-0.02 ± 0.04
	p	0.32	0.22	0.15	0.65
	R²	0.42	0.17	0.32	0.22
Factor 2	β ± SE	-0.04 ± 0.03	-0.05 ± 0.04	-0.06 ± 0.03	-0.02 ± 0.04
	p	0.20	0.14	0.07	0.68
	R²	0.42	0.17	0.31	0.22
Factor 3	β ± SE	-0.02 ± 0.03	-0.04 ± 0.04	-0.04 ± 0.03	-0.06 ± 0.04
	p	0.45	0.24	0.29	0.12
	R²	0.42	0.17	0.31	0.22
Factor 4	β ± SE	-0.02 ± 0.03	-0.01 ± 0.04	-0.02 ± 0.04	0.03 ± 0.04
	p	0.52	0.90	0.50	0.42
Black					
	R²	0.33	0.16	0.23	0.13
Factor 1	β ± SE	-0.07 ± 0.04	-0.08 ± 0.05	-0.07 ± 0.05	-0.00 ± 0.05
	p	0.10	0.14	0.14	0.96
	R²	0.33	0.15	0.23	0.13
Factor 2	β ± SE	-0.07 ± 0.04	-0.06 ± 0.05	-0.07 ± 0.05	-0.01 ± 0.05
	p	0.14	0.26	0.14	0.86
	R²	0.33	0.16	0.23	0.14
Factor 3	β ± SE	-0.07 ± 0.04	-0.08 ± 0.05	-0.08 ± 0.05	-0.07 ± 0.05
	p	0.13	0.11	0.12	0.17
	R²	0.32	0.15	0.23	0.13
Factor 4	β ± SE	-0.04 ± 0.05	-0.03 ± 0.05	-0.03 ± 0.05	-0.02 ± 0.05
	p	0.44	0.59	0.63	0.78
White					
	R²	0.50	0.20	0.39	0.33
Factor 1	β ± SE	0.00 ± 0.04	-0.02 ± 0.05	-0.03 ± 0.05	0.01 ± 0.05
	p	0.92	0.77	0.56	0.91
	R²	0.50	0.20	0.39	0.33
Factor 2	β ± SE	-0.01 ± 0.04	-0.05 ± 0.05	-0.05 ± 0.05	-0.01 ± 0.05
	p	0.76	0.34	0.26	0.81
	R²	0.50	0.20	0.39	0.33
Factor 3	β ± SE	0.01 ± 0.04	0.01 ± 0.05	-0.01 ± 0.05	-0.01 ± 0.05
	p	0.88	0.92	0.81	0.85

Adjusted for: sex, socio-economic status, waist circumference, total cholesterol, glucose, gamma glutamyltransferase, cotinine, estimated glomerular filtration rate, activity energy expenditure.