



Supporting Information

Supplementary results

**This appendix was part of the submitted manuscript and has been peer reviewed.
It is posted as supplied by the authors.**

Appendix to: Ng E, Gwini SM, Stowasser M, et al. Aldosterone and renin concentrations and blood pressure in young Indigenous and non-Indigenous adults in the Northern Territory: a cross-sectional study. *Med J Aust* 2023; doi: 10.5694/mja2.52062.

Table. Blood pressure in study participants, by study group and participant characteristics: uni- and multivariable linear regression analyses

Characteristic	Systolic blood pressure: beta (95% CI)		Diastolic blood pressure: beta (95% CI)	
	Unadjusted	Adjusted*	Unadjusted	Adjusted*
Top End Cohort				
Age (per year)	0.0 (-2.0 to 2.0)	-1.0 (-2.6 to 0.7)	0.4 (-0.9 to 1.6)	-0.04 (-1.22 to 1.14)
Sex (women)	-12.7 (-18.0 to -7.4)	-13.2 (-8.0 to -8.3)	-3.8 (-7.6 to 0.0)	-4.09 (-7.89 to -0.30)
Waist circumference (per cm)	0.4 (0.2 to 0.6)	0.4 (0.2 to 0.6)	0.4 (0.2 to 0.5)	0.4 (0.2 to 0.5)
Body mass index (kg/m ²), (per 1.0 kg/m ²)	0.9 (0.3 to 1.4)	0.9 (0.5 to 1.3)	0.8 (0.5 to 1.1)	0.8 (0.5 to 1.1)
< 25 kg/m ²	1	1	1	1
25.0–29.9 kg/m ²	5.5 (-1.0 to 12.1)	3.0 (-2.7 to 8.8)	5.0 (1.0 to 9.0)	4.3 (0.3 to 8.3)
≥ 30.0 kg/m ²	9.7 (2.6 to 16.9)	10.9 (4.6 to 17.1)	8.8 (4.5 to 13.2)	9.1 (4.7 to 13.4)
Plasma aldosterone (per 1.0 pmol/L)	-0.003 (-0.012 to 0.005)	0.000 (-0.007 to 0.007)	0.001 (-0.004 to 0.006)	0.002 (-0.003 to 0.007)
Direct renin (per 1.0 mU/L)	-0.2 (-0.6 to 0.2)	-0.3 (-0.6 to 0.0)	0.0 (-0.3 to 0.2)	-0.1 (-0.3 to 0.2)
Aldosterone-to-renin ratio (per 1.0 pmol/mU)	0.02 (-0.01 to 0.06)	0.04 (0.01 to 0.07)	0.011 (-0.01 to 0.03)	0.02 (0.00 to 0.04)
Aboriginal Birth Cohort (urban)				
Age (per year)	0.8 (-3.1 to 4.7)	0.2 (-3.4 to 3.7)	1 (-1.8 to 3.8)	0.7 (-1.9 to 3.2)
Sex (women)	-12.2 (-20.6 to -3.7)	-13 (-21.2 to -4.7)	-6.4 (-12.6 to -0.1)	-6.9 (-12.9 to -0.9)
Waist circumference (per cm)	0.3 (0.0 to 0.5)	0.3 (0.1 to 0.5)	0.3 (0.1 to 0.4)	0.3 (0.1 to 0.4)
Body mass index (kg/m ²), (per 1.0 kg/m ²)	0.6 (0.0 to 1.3)	0.7 (0.1 to 1.3)	0.6 (0.1 to 1.0)	0.6 (0.2 to 1.0)
< 25 kg/m ²	1	1	1	1
25.0–29.9 kg/m ²	7.9 (-3.4 to 19.1)	6.2 (-4.3 to 16.7)	5.2 (-2.5 to 13.0)	4.2 (-3.3 to 11.7)
≥ 30.0 kg/m ²	12.4 (1.2 to 23.5)	13.2 (2.9 to 23.5)	11.1 (3.4 to 18.7)	11.5 (4.1 to 18.9)
Plasma aldosterone (per 1.0 pmol/L)	0.002 (-0.019 to 0.024)	-0.008 (-0.028 to 0.013)	0.002 (-0.013 to 0.017)	-0.004 (-0.019 to 0.011)
Direct renin (per 1.0 mU/L)	-0.1 (-0.4 to 0.2)	-0.2 (-0.5 to 0.1)	0.0 (-0.3 to 0.2)	-0.1 (-0.3 to 0.1)
Aldosterone-to-renin ratio (per 1.0 pmol/mU)	0.02 (-0.03 to 0.08)	0.03 (-0.02 to 0.08)	0.02 (-0.02 to 0.06)	0.02 (-0.02 to 0.06)
Aboriginal Birth Cohort (remote)				
Age (per year)	1.1 (-0.3 to 2.6)	0.9 (-0.4 to 2.3)	1.2 (0.2 to 2.1)	1.1 (0.1 to 2.0)
Sex (women)	-8.0 (-11.4 to -4.5)	-8.5 (-11.8 to -5.1)	-3.3 (-5.7 to -1.0)	-3.7 (-6.0 to -1.4)
Waist circumference (per cm)	0.2 (0.0 to 0.3)	0.2 (0.1 to 0.3)	0.1 (0.1 to 0.2)	0.1 (0.1 to 0.2)
Body mass index (kg/m ²), (per 1.0 kg/m ²)	0.5 (0.2 to 0.8)	0.6 (0.3 to 0.9)	0.4 (0.2 to 0.6)	0.4 (0.2 to 0.6)
< 25 kg/m ²	1	1	1	1
25.0–29.9 kg/m ²	6.9 (2.2 to 11.6)	8.2 (3.7 to 12.7)	5.3 (2.2 to 8.4)	5.8 (2.8 to 8.8)
≥ 30.0 kg/m ²	5.2 (0.5 to 9.8)	5.8 (1.3 to 10.2)	4.4 (1.3 to 7.4)	4.5 (1.5 to 7.5)
Plasma aldosterone (per 1.0 pmol/L)	-0.002 (-0.009 to 0.005)	0.002 (-0.004 to 0.009)	0.0 (-0.005 to 0.004)	0.002 (-0.002 to 0.006)
Direct renin (per 1.0 mU/L)	0.003 (-0.028 to 0.035)	0.011 (-0.020 to 0.042)	-0.003 (-0.024 to 0.018)	0.001 (-0.020 to 0.022)
Aldosterone-to-renin ratio (per 1.0 pmol/mU)	0.01 (-0.03 to 0.04)	0.01 (-0.02 to 0.04)	0.01 (-0.01 to 0.03)	0.01 (-0.02 to 0.03)

CI = confidence interval. Bold: Statistically significant.

* Age, sex: adjusted for age or sex (as applicable) and body mass index; body mass index and weight circumference adjusted for age and sex; aldosterone, renin, aldosterone-to-renin ratio: adjusted for age, sex, and body mass index.