



Online Appendix

**This appendix was part of the submitted manuscript and has been peer reviewed.
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Appendix to: Donaldson LH, Hammond NE, Agarwal S, et al. Outcomes following severe septic shock in a cohort of Aboriginal and Torres Strait Islander people: a nested cohort study from the ADRENAL trial. *Crit Care Resusc* 2021; doi: 10.51893/2022.1.OA3

Supplementary Table 1: Additional baseline characteristics of a cohort of Aboriginal and Torres Strait Islander patients at baseline compared to both a matched cohort and a cohort of non-Indigenous patients recruited to RDH

Variable	Aboriginal/ Torres Strait Islander Cohort (N = 61)	Non- Indigenous RDH Cohort (N = 62)	Standard difference	Matched controls (N = 61)	Standard difference
Primary operative diagnosis, no./total (%)					
Cardiovascular	0/9	0/9	-	2/14 (14.3%)	0.58
Respiratory	1/9 (11.1%)	1/16 (6.3%)	0.17	0/14 (0.0%)	0.50
Gastrointestinal	0/9	11/16 (68.8%)	2.10	5/14 (35.7%)	1.05
Trauma	0/9	1/16 (6.3%)	0.37	1/14 (7.1%)	0.39
Genitourinary	1/9 (11.1%)	1/16 (6.3%)	0.17	2/14 (14.3%)	0.10
Musculoskeletal / skin	7/9 (77.8%)	2/16 (12.5%)	1.74	3/14 (21.4%)	1.36
Gynaecological	0/9	0/9	-	1/14 (7.1%)	0.39
Primary non-operative diagnosis, no./total (%)					
Cardiovascular	0/52 (0.0%)	2/46 (4.3%)	0.30	5/47 (10.6%)	0.49
Respiratory	19/52 (36.5%)	16/46 (34.8%)	0.04	13/47 (27.7%)	0.19
Gastrointestinal	1/52 (1.9%)	0/46	0.20	3/47 (6.4%)	0.22
Neurological	1/52 (1.9%)	0/46	0.20	0/47 (0.0%)	0.20
Sepsis	29/52 (55.8%)	26/46 (56.5%)	0.02	25/47 (53.2%)	0.05
Trauma	1/52 (1.9%)	0/46	0.20	1/47 (2.1%)	0.01
Metabolic	0/52	1/46 (2.2%)	0.21	0/52	-
Genitourinary	1/52 (1.9%)	1/46 (2.2%)	0.02	0/47	0.20
Biochemistry and haematology at randomisation, mean (\pmSD) or no./total (%)					
Highest plasma lactate (mmol/L)	3.6 (\pm 2.54)	3.2 (\pm 2.31)	0.16	4.4 \pm 3.70	0.26
Highest plasma bilirubin level (μ mol/L)	24.4 (\pm 28.81)	24.4 (\pm 23.04)	0.00	26.4 (\pm 26.05)	0.07
Highest plasma creatinine level (μ mol /L)	271.2 (\pm 283.45)	211.6 (\pm 267.46)	0.22	209.6 (\pm 145.01)	0.27
Lowest haemoglobin	105.6 (\pm 20.42)	105.4 (\pm 21.23)	0.01	105.2 (\pm 22.51)	0.02
Lowest white cell count	21.4 (\pm 10.77)	16.3 (\pm 10.02)	0.49	21.0 (\pm 13.82)	0.03
> 10% immature neutrophils	11/57 (19.3%)	16/56 (28.6%)	0.22	5/51 (9.8%)	0.27
Abnormal WCC (< 4.0*10 ⁹ /L or > 12.0)	56/57 (98.2%)	62/62 (100.0%)		52/53 (98.1%)	
Lowest platelet count	177.0 (\pm 129.96)	226.9 (\pm 134.73)	0.38	179.6 (\pm 94.75)	0.02
Highest INR	1.4 (\pm 0.45)	1.4 (\pm 0.59)	0.01	1.8 (\pm 0.88)	0.53
Vasopressors and inotropes at baseline, no./total (%)					
Noradrenaline infusion	61/61 (100.0%)	62/66 (93.9%)	0.36	61/61 (100.0%)	-
Adrenaline infusion	4/61 (6.6%)	4/66 (6.1%)	0.02	4/61 (6.6%)	-
Vasopressin infusion	5/61 (8.2%)	4/66 (6.1%)	0.08	12/61 (19.7%)	0.34

Dopamine	0/61	0/66	-	0/61	-
Dobutamine	1/61 (1.6%)	1/66 (1.5%)	0.01	1/61 (1.6%)	-
Metaraminol	0/61	0/66	-	4/61 (6.6%)	0.37
Levosimendan	0/61	0/66	-	0/61	-
Other Therapies at baseline, no./total (%)					
PRBC infused	6/61 (9.8%)	4/62 (6.5%)	0.12	10/61 (16.4%)	0.20
Median Volume PRBC transfused (ml, IQR)	244.0 (238.0-250.0)	398.5 (259.0-532.5)	-	600.0 (492.0-914.0)	-
Open-label corticosteroid use	3/61 (4.9%)	1/62 (1.6%)	0.19	8/61 (13.1%)	0.29
Statin therapy	22/61 (36.1%)	10/62 (16.1%)	0.47	10/61 (16.4%)	0.46
Time from ICU admission to randomisation into ADRENAL (Mean hrs \pm SD)	16.4 (16.27)	14.6 (9.46%)	0.14	29.4 (63.02)	0.28

RDH: Royal Darwin Hospital; SD: Standard Deviation

Supplementary Table 21: Quality of life at 6 months in First Nations Cohort recruited to the ADRENAL trial from RDH compared to non-Indigenous patients recruited to ADRENAL from RDH, and a matched cohort drawn from the entire ADRENAL trial.

Variable	Aboriginal/ Torres Strait Islander Cohort (N = 61)	Non-indigenous RDH Cohort (N = 62)	Standard difference	Matched Controls (N = 61)	Standard difference
EQ-5D-5L Domains - no./total (%)					
<i>Mobility</i>					
I have no problems with walking around	8/9 (88.9%)	15/23 (65.2%)	0.59	17/36 (47.2%)	1.00
I have slight problems with walking around	0/9 (0.0%)	5/23 (21.7%)	0.75	9/36 (25.0%)	0.82
I have moderate problems with walking around	1/9 (11.1%)	0/23 (0.0%)	0.50	3/36 (8.3%)	0.09
I have severe problems with walking around	0/9 (0.0%)	2/23 (8.7%)	0.44	3/36 (8.3%)	0.43
I am unable to walk around	0/9 (0.0%)	1/23 (4.3%)	0.30	4/36 (11.1%)	0.50
<i>Self-care</i>					
I have no problems with washing or dressing myself	9/9 (100.0%)	21/23 (91.3%)	0.44	20/36 (55.6%)	1.26
I have slight problems with washing or dressing myself	0/9 (0.0%)	1/23 (4.3%)	0.30	8/36 (22.2%)	0.76
I have moderate problems with washing or dressing myself	0/9 (0.0%)	0/23 (0.0%)	-	6/36 (16.7%)	0.63
I am unable to wash or dress myself	0/9 (0.0%)	1/23 (4.3%)	0.30	2/36 (5.6%)	0.34
<i>Usual Activities</i>					
I have no problems doing my usual activities	8/9 (88.9%)	13/23 (56.5%)	0.78	14/36 (38.9%)	1.22
I have slight problems doing my usual activities	0/9 (0.0%)	5/23 (21.7%)	0.75	9/36 (25.0%)	0.82
I have moderate problems doing my usual activities	1/9 (11.1%)	3/23 (13.0%)	0.06	7/36 (19.4%)	0.23
I have severe problems doing my usual activities	0/9 (0.0%)	1/23 (4.3%)	0.30	3/36 (8.3%)	0.43
I am unable to do my usual activities	0/9 (0.0%)	1/23 (4.3%)	0.30	3/36 (8.3%)	0.43
<i>Pain Discomfort</i>					
I have no pain or discomfort	7/9 (77.8%)	10/23 (43.5%)	0.75	14/36 (38.9%)	0.86

I have slight pain or discomfort	2/9 (22.2%)	8/23 (34.8%)	0.28	10/36 (27.8%)	0.13
I have moderate pain or discomfort	0/9 (0.0%)	3/23 (13.0%)	0.55	7/36 (19.4%)	0.69
I have severe pain or discomfort	0/9 (0.0%)	1/23 (4.3%)	0.30	5/36 (13.9%)	0.57
I have extreme pain or discomfort	0/9 (0.0%)	1/23 (4.3%)	0.30	-	-
<i>Anxiety and Depression</i>					
I am not anxious or depressed	9/9 (100.0%)	11/23 (47.8%)	1.48	17/36 (47.2%)	1.50
I am slightly anxious or depressed	0/9 (0.0%)	4/23 (17.4%)	0.65	10/36 (27.8%)	0.88
I am moderately anxious or depressed	0/9 (0.0%)	8/23 (34.8%)	1.03	4/36 (11.1%)	0.50
I am severely anxious or depressed	0/9 (0.0%)	0/23 (0.00%)	-	5/36 (13.9%)	0.57
QoL utility score, Mean (\pmSD)	0.9 (\pm 0.10)	0.6 (\pm 0.36)	1.02	0.5 (\pm 0.39)	1.35
QoL VAS score, mean (\pmSD)	91.7 (\pm 16.58)	72.2 (\pm 23.10)	0.97	64.9 (\pm 24.10)	1.29

SD: Standard Deviation; QoL: Quality of Life; VAS: Visual Analogue Scale