

Table 1: Arterialised and venous haematocrit, haemoglobin, pH, ions, blood gases, and calculated oxygen content at rest, and 30 and 180 seconds into dynamic handgrip exercise at 45% MVC.

Variable		Rest	30 seconds	180 seconds
Hct ^{b, e}	a	0.42 ± 0.03	0.43 ± 0.03	
	v	0.42 ± 0.03	0.43 ± 0.03	0.43 ± 0.03
Hb (g/L) ^{b, e}	a	143 ± 9	146 ± 9	
	v	143 ± 10	145 ± 10	147 ± 11
% SO ₂ ^{a, b, c, d, e}	a	95 ± 1	94 ± 2	
	v	52 ± 11	34 ± 7	38 ± 6
CtO ₂ (mL/L) ^{a, b, c, d, e}	a	182 ± 12	184 ± 12	
	v	100 ± 22	67 ± 16	75 ± 14
PO ₂ (mmHg) ^{a, d, f}	a	74 ± 5	71 ± 5	
	v	29 ± 5	23 ± 3	25 ± 2
PCO ₂ (mmHg) ^{a, b, c, d, e, f}	a	39 ± 3	41 ± 2	
	v	50 ± 3	57 ± 4	63 ± 5
pH ^{a, b, d, e, f}	a	7.42 ± 0.03	7.40 ± 0.02	
	v	7.37 ± 0.03	7.34 ± 0.02	7.31 ± 0.02
K ⁺ (mmol/L) ^{a, b, c, d, e, f}	a	4.0 ± 0.2	4.1 ± 0.2	
	v	4.0 ± 0.2	5.1 ± 0.5	4.7 ± 0.3
Na ⁺ (mmol/L)	a	139 ± 1	139 ± 1	
	v	139 ± 1	140 ± 1	140 ± 1

Data are mean ± SD. a - arterialised, v - venous, Hct - haematocrit, Hb - haemoglobin, K⁺ - potassium, Na⁺ - sodium, PO₂ - partial pressure of oxygen, PCO₂ - partial pressure of carbon dioxide, SO₂ - saturation of haemoglobin with oxygen, CtO₂ - oxygen content.

^a significant main effect for position; ^b significant main effect for time; ^c significant main effect for position by time interaction; computed from a 2 × 2 RM ANOVA (where time = rest and 30 seconds and position = arterial and venous), ^d 30 second value significantly different from rest; ^e 180 second value significantly different from rest; ^f 180 second value significantly different from 30 second value; computed from a RM ANOVA for venous blood at rest, 30 seconds, and 180 seconds of exercise).