

Blood Gas Reference Ranges

	Arterial	Venous	Critical Values	
			Lower Limit	Upper Limit
pH	7.35 - 7.45	7.32 - 7.42	<7.20	>7.60
PCO ₂	35 - 45 mmHg	41 - 51 mmHg	<20 mmHg	>65 mmHg
PO ₂ adults	80 - 100 mmHg	25 - 40 mmHg	<50 mmHg	
PO ₂ >65 yrs	75 - 85 mmHg			
PO ₂ infants	60 - 70 mmHg			
HCO ₃	22 - 26 mmol/L	22 - 26 mmol/L		
%O ₂ Hb	96 - 97%	45 - 70%	<75%	
%COHb	0 - 1.5%	0 - 1.5%		>10%
%METHb	0 - 1.5%	0 - 1.5%		>10%
SODIUM	132 - 146 mmol/L	132 - 146 mmol/L	<120 mmol/L	>160 mmol/L
POTASSIUM	3.5 - 5.0 mmol/L	3.5 - 5.0 mmol/L	<2.5 mmol/L	>6.0 mmol/L
CHLORIDE	98 - 108 mmol/L	98 - 108 mmol/L	<80 mmol/L	>120 mmol/L
IONIZED CALCIUM	1.12 - 1.30 mmol/L	1.12 - 1.30 mmol/L	<0.75 mmol/L	>1.55 mmol/L
LACTATE (at rest)	0.5 - 2.2 mmol/L	0.5 - 2.2 mmol/L		>5 mmol/L
GLUCOSE	73 - 115 mg/dL	73 - 115 mg/dL	<40 mg/dL	>500 mg/dL

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