LEGACY HEALTH | LEGACY LABORATORY SERVICES

Adult Blood Gases, Critical Care Panel and ECMO
Age Related Reference Ranges and Critical Values

TEST	SEX	AGE	REFERENCE RANGE	CRITICAL VALUE	
Calcium, Ionized, Respiratory Therapy	M/F	≥2 days	1.12-1.26 mmol/L	**Low** <0.76 mmol/L	**High** >1.49 mmol/L
Carboxyhemoglobin, Arterial and Venous Blood	M/F	All Ages Non-Smokers: Average Smokers: Heavy Smokers:	 0.5-1.5% 1.5-5.0% 8.0-9.0%	**Low** None defined	**High** >20.0%
ECMO, Arterial **pH** **pCO2** **pO2**	M/F		 7.35-7.45 34-46 mmHg 150-500 mmHg	**Low** <7.31 <27mmHg <91 mmHg	**High** >7.54 >59 mmHg None defined
ECMO, Venous **pH** **pCO2** **pO2**	M/F		 7.33-7.43 39-54 mmHg 30-40 mmHg	**Low** <7.31 <27 mmHg None defined	**High** >7.54 >59 mmHg None defined
Hematocrit	 M F	 5 - 150 years 5 - 150 years	 40-52% 35-46%	**Low** <18 % <18%	**High** None defined
Hemoglobin	 M F	 11 - 150 years 11 - 150 years	 13.6-18.0 g/dL 11.5-16.0 g/dL	**Low** <6.0 g/dL <6.0 g/dL	**High** None defined
Oxygen Saturation, Arterial Blood	M/F	All Ages	94-99%	**Low** <76%	**High** None defined
Oxygen Saturation, Venous Blood	M/F	All Ages	60-85%	None defined	
pH, Arterial Blood	M/F	All Ages	7.35-7.45	**Low** <7.22	**High** >7.59
pH, Venous Blood	M/F	All Ages	7.33-7.43	**Low** <7.22	**High** >7.59
PCO_2, Arterial Blood	M/F	All Ages	34-46 mmHg	**Low** <21 mmHg	**High** >69 mmHg
PCO_2, Venous Blood	M/F	All Ages	39-54 mmHg	**Low** <11 mmHg	**High** >69 mmHg
PO_2, Arterial Blood	M/F	 1 month - 60 years ≥60 years	 80-100 mmHg 75-85 mmHg	**Low** <51 mmHg <51 mmHg	**High** None defined
PO_2, Venous Blood	M/F	All Ages	25-43 mmHg	None defined	
Potassium	M/F	>1 year	3.6-5.0 mmol/L	**Low** <2.9 mmol/L	**High** >6.1 mmol/L
Sodium	M/F	>12 years	135-145 mmol/L	**Low** <121 mmol/L	**High** >159 mmol/L

Reference ranges are subject to update. Refer to the individual test listed on the Legacy web site or the patient chart for reference ranges at time of testing.

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