

Blood Gas #13

A 60-year-old man attends the emergency department reporting abdominal pain and diarrhoea.

Describe and interpret his initial venous blood gas:

Blood Gas Values

↓ pH	6.898		[7.320 - 7.430]
↓ pCO ₂	12.8	mmHg	[37.0 - 50.0]
↑ pO ₂	88.8	mmHg	[36.0 - 44.0]
↓ cHCO ₃ ⁻ (P) _c	2.4	mmol/L	[22.0 - 28.0]
↓ cBase(Ecf) _c	-28.0	mmol/L	[-3.0 - 3.0]
↑ sO ₂	89.2	%	[70.0 - 80.0]

Electrolyte Values

↓ cNa ⁺	130	mmol/L	[135 - 145]
↑ cK ⁺	7.4	mmol/L	[3.5 - 5.2]
cCl ⁻	98	mmol/L	[95 - 110]
↑ AnionGap.K ⁺ _c	36.6	mmol/L	[7.0 - 17.0]
cCa ²⁺	1.25	mmol/L	[1.12 - 1.32]

Metabolite Values

↑ cGlu	13.3	mmol/L	[3.0 - 5.4]
↑ cLac	12.7	mmol/L	[- - 1.5]
↑ cCrea	1241	µmol/L	[45 - 90]

Oximetry Values

↓ ctHb	89	g/L	[135 - 180]
FCOHb	0.1	%	[- - 6.0]
FO ₂ Hb	88.0	%	[- -]
FMetHb	1.2	%	[- - 1.5]

Notes

- ↑ Value(s) above reference range
- ↓ Value(s) below reference range
- c Calculated value(s)

Solution to follow...