

Instructional Module 7: ABG Practice 1

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Date: 10/27/24

	1	2	3
7.35-7.45	pH 7.38 ↓ 7.4 = acidosis	pH 7.60 ↑ = alk	pH 7.37 ↓ N = Acid
35-45	PaCO ₂ 30mmHg ↓	PaCO ₂ 25mmHg ↓	PaCO ₂ 59 mmHg ↑
22-26	HCO ₃ 10mEq/L ↓	HCO ₃ 24mEq/L N	HCO ₃ 34mEq/L ↑
	pO ₂ 60	pO ₂ 72	pO ₂ 82
	Interpretation:	Interpretation:	Interpretation:
	Metabolic acidosis	Respiratory Alkalosis	respiratory Acidosis
	in full comp	uncompensated	Full compensation
	mod. hypoxemia	mild hypoxemia	Normal oxygenation

	4	5	6
7.35-7.45	pH 7.56 ↑ Alk	pH 7.34 ↓ = acid	pH 7.15 ↓ acidosis
35-45	PaCO ₂ 40mmHg N	PaCO ₂ 50mmHg ↑	PaCO ₂ 49 mmHg ↑
22-26	HCO ₃ 38mEq/L ↑	HCO ₃ 31mEq/L ↑	HCO ₃ 25mEq/L N
	pO ₂ 59	pO ₂ 65	pO ₂ 74
	Interpretation:	Interpretation:	Interpretation:
	Metabolic Alkalosis	Respiratory Acidosis	Respiratory acidosis
	uncompensated	partial compensation	uncompensated
	severe hypoxemia	mod. hypoxemia	mild hypoxemia

	7	8	9
7.35-7.45	pH 7.20 ↓ acid	pH 7.54 ↑ Alk	pH 7.42 ↑ N alk
35-45	PaCO ₂ 30 mmHg ↓	PaCO ₂ 44mmHg N	PaCO ₂ 38mmHg N
22-26	HCO ₃ 18mEq/L ↓	HCO ₃ 36mEq/L ↑	HCO ₃ 25.3mEq/L N
	pO ₂ 55	pO ₂ 64	pO ₂ 92 Normal
	Interpretation:	Interpretation:	Interpretation:
	Metabolic acidosis	Metabolic Alkalosis	Normal
	partial compensation	uncompensated	uncompensated
	severe hypoxia	mod. hypoxia	Normal oxygenation

	⑩	⑪	12
7.35-7.45	pH 7.31 ↓ acid	pH 7.27 ↓ acid	pH 7.55 ↑ Alk
35-45	PaCO ₂ 33mmHg ↓	PaCO ₂ 35mmHg N	PaCO ₂ 34mmHg ↓
22-26	HCO ₃ 16mEq/L ↓	HCO ₃ 10mEq/L ↓	HCO ₃ 16.8mEq/L ↓
	pO ₂ 68	pO ₂ 78	pO ₂ 91
	Interpretation:	Interpretation:	Interpretation:
	Metabolic acidosis	Metabolic acidosis	Respiratory Alkalosis
	partial compensation	uncompensated	partial compensation
	mod. hypoxemia	mild hypoxic	Normal oxygenation

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		2		3	
	pH	7.60	↑ = alk	pH	7.37 ↓ N = acid
	PaCO2	25 mmHg	↓	PaCO2	59 mmHg ↑
	HCO3	24 mEq/L	N	HCO3	34 mEq/L ↑
	pO2	72		pO2	82
	Interpretation:			Interpretation:	
	Respiratory Alkalosis			Respiratory Acidosis	
	uncompensated			Full compensation	
	mild hypoxemia			Normal oxygenation	
		5		6	
	pH	7.34	↓ = acid	pH	7.15 ↓ acidosis
	PaCO2	50 mmHg	↑	PaCO2	49 mmHg ↑
	HCO3	31 mEq/L	↑	HCO3	25 mEq/L N
	pO2	65		pO2	74
	Interpretation:			Interpretation:	
	Respiratory Acidosis			Respiratory acidosis	
	partial compensation			uncompensated	
	mod. hypoxemia			mild hypoxemia	
		8		9	
	pH	7.54	↑ alk	pH	7.42 ↑ N alk
	PaCO2	44 mmHg	N	PaCO2	38 mmHg N
	HCO3	36 mEq/L	↑	HCO3	25.3 mEq/L N
	pO2	64		pO2	92 Normal
	Interpretation:			Interpretation:	
	Metabolic Alkalosis			Normal	
	uncompensated			uncompensated	
	mod. hypoxia			Normal oxygen	
				12	
				7.55 ↑ alk	