

Instructional Module 7: ABG Practice 1

Student Name: Ana Alicia Robles

Date: 5/3/2022

1		2		3	
pH	7.38 ↓ (N)	pH	7.60 ↑ (A)	pH	7.37 ↓ (N)
PaCO ₂	30mmHg ↓ (A)	PaCO ₂	25mmHg ↓	PaCO ₂	59 mmHg ↑
HCO ₃	10mEq/L ↓	HCO ₃	24mEq/L (N)	HCO ₃	34mEq/L (A)
pO ₂	60	pO ₂	72	pO ₂	82
Interpretation:		Interpretation:		Interpretation:	
metabolic acidosis fully compensated moderate hypoxemia		Respiratory alkalosis uncompensated mild hypoxemia		Respiratory acidosis fully compensated Normal oxygen	

4		5		6	
pH	7.56 ↑ (A)	pH	7.34 ↓ (A)	pH	7.15 ↓ (A)
PaCO ₂	40mmHg (N)	PaCO ₂	50mmHg ↑	PaCO ₂	49 mmHg ↑
HCO ₃	38mEq/L ↑	HCO ₃	31mEq/L ↑ (A)	HCO ₃	25mEq/L (N)
pO ₂	59	pO ₂	65	pO ₂	74
Interpretation:		Interpretation:		Interpretation:	
metabolic alkalosis uncompensated severe hypoxemia		Respiratory acidosis partially compensated moderate hypoxemia		respiratory acidosis uncompensated mild hypoxemia	

7		8		9	
pH	7.20 ↓ (A)	pH	7.54 ↑ (A)	pH	7.42 ↑ (N)
PaCO ₂	30 mmHg ↓ (A)	PaCO ₂	44mmHg ↑ (N)	PaCO ₂	38mmHg ↓ (N)
HCO ₃	18mEq/L (ψ)	HCO ₃	36mEq/L ↑	HCO ₃	25.3mEq/L (N)
pO ₂	55	pO ₂	64	pO ₂	92
Interpretation:		Interpretation:		Interpretation:	
metabolic acidosis partially compensated severe hypoxemia		metabolic alkalosis uncompensated moderate hypoxemia		Normal alkalosis ABG panel 1 Normal oxygenation	

10		11		12	
pH	7.31 ↓ (A)	pH	7.27 ↓ (A)	pH	7.55 ↑ (A)
PaCO ₂	33mmHg ↓ (A)	PaCO ₂	35mmHg ↓ (N)	PaCO ₂	34mmHg ↓
HCO ₃	16mEq/L ↓	HCO ₃	10mEq/L ↓	HCO ₃	16.8mEq/L (A)
pO ₂	68	pO ₂	78	pO ₂	91
Interpretation:		Interpretation:		Interpretation:	
metabolic acidosis partially compensated moderate hypoxemia		metabolic acidosis uncompensated mild hypoxemia		Respiratory alkalosis partially compensated Normal oxygenation	

Instructional Module 7: ABG Practice 2

Student Name: Analia Robles

Date: 5/3/2022

1		2		3	
pH	7.34 ↓ (A)	pH	7.33 ↓ (A)	pH	7.57 ↑ (A)
PaCO ₂	32.9 mmHg ↓ (A)	PaCO ₂	41.3 mmHg (N)	PaCO ₂	48 mmHg ↑ (A)
HCO ₃	19.2 mEq/L ↓	HCO ₃	21.4 mEq/L ↓ (A)	HCO ₃	48.2 mEq/L ↑
pO ₂	85.2	pO ₂	41	pO ₂	58.7
Interpretation:		Interpretation:		Interpretation:	
Metabolic acidosis Partially compensated Normal oxygenation		metabolic acidosis partially compensated severe hypoxemia		Metabolic alkalosis Partially compensated severe hypoxemia	

4		5		6	
pH	7.19 ↓ (A)	pH	7.09 ↓ (A)	pH	7.27 ↓ (A)
PaCO ₂	69.3 mmHg ↑ (A)	PaCO ₂	12.4 mmHg ↓ (A)	PaCO ₂	43 mmHg ↑ (N)
HCO ₃	23 mEq/L (N)	HCO ₃	5.1 mEq/L ↓ (A)	HCO ₃	13.4 mEq/L ↓ (A)
pO ₂	40.9	pO ₂	115.1	pO ₂	29.1
Interpretation:		Interpretation:		Interpretation:	
Respiratory acidosis Uncompensated severe hypoxemia		metabolic acidosis Partially compensated high oxygenation		Metabolic acidosis Partially compensated severe hypoxemia	

7		8		9	
pH	7.45 ↑ (N)	pH	7.29 ↓ (A)	pH	7.61 ↑ (A)
PaCO ₂	28 mmHg ↓	PaCO ₂	79.5 mmHg ↑	PaCO ₂	24 mmHg ↓
HCO ₃	19.1 mEq/L ↓ (A)	HCO ₃	37.1 mEq/L ↑ (A)	HCO ₃	23 mEq/L (N)
pO ₂	65.5	pO ₂	30	pO ₂	68
Interpretation:		Interpretation:		Interpretation:	
Respiratory alkalosis Fully compensated moderate hypoxemia		Respiratory acidosis partially compensated severe hypoxemia		Respiratory alkalosis uncompensated moderate hypoxemia	

10		11		12	
pH	7.51 ↑ (A)	pH	7.39 ↓ (N)	pH	7.31 ↓
PaCO ₂	39.4 mmHg (N)	PaCO ₂	39 mmHg ↓ (N)	PaCO ₂	58.5 mmHg ↑
HCO ₃	31.2 mEq/L ↑ (A)	HCO ₃	23.4 mEq/L (N)	HCO ₃	26 mEq/L (N)
pO ₂	77.3	pO ₂	80	pO ₂	74.5
Interpretation:		Interpretation:		Interpretation:	
Metabolic alkalosis Partially compensated mild hypoxemia		Normal ABG Normal oxygenation		Respiratory acidosis uncompensated mild hypoxemia	

Instructional Module 7: ABG Practice 2

13		14		15	
pH	7.46 ↑ (N)	pH	7.44 ↑ (N)	pH	7.36 ↓ (N)
PaCO ₂	34 mmHg ↓	PaCO ₂	27.8 mmHg ↓	PaCO ₂	75.1 mmHg ↑
HCO ₃	26 mEq/L (N)	HCO ₃	19.2 mEq/L ↓ (A)	HCO ₃	40.6 mEq/L ↑ (A)
pO ₂	43.8	pO ₂	100	pO ₂	65.2
Interpretation:		Interpretation:		Interpretation:	
Respiratory alkalosis uncompensated severe hypoxia		Respiratory acidosis fully compensated Normal oxygenation		Respiratory acidosis fully compensated moderate hypoxia	

16		17		18	
pH	7.44 ↑ (N)	pH	7.18 ↓ (A)	pH	7.36 ↓ (N)
PaCO ₂	48 mmHg ↑ (A)	PaCO ₂	42 mmHg (N)	PaCO ₂	30 mmHg ↓ (A)
HCO ₃	32.6 mEq/L ↑ (A)	HCO ₃	15 mEq/L ↓ (A)	HCO ₃	15 mEq/L ↓ (A)
pO ₂	63.6	pO ₂	68	pO ₂	80
Interpretation:		Interpretation:		Interpretation:	
Metabolic alkalosis Fully compensated moderate hypoxia		Metabolic acidosis uncompensated moderate hypoxia		Metabolic acidosis Fully compensated Normal oxygenation	

19		20		21	
pH	7.42 ↑ (N)	pH	7.52 ↑ (A)	pH	7.08 ↓ (A)
PaCO ₂	39 mmHg ↑ (N)	PaCO ₂	47 mmHg ↑	PaCO ₂	36 mmHg ↓ (N)
HCO ₃	25.4 mEq/L (N)	HCO ₃	26.5 mEq/L ↑ (A)	HCO ₃	15 mEq/L ↓ (A)
pO ₂	92	pO ₂	100	pO ₂	54
Interpretation:		Interpretation:		Interpretation:	
Normal Fully ABG Normal oxygenation		Metabolic alkalosis partial compensated Normal oxygenation		Metabolic acidosis uncompensated severe hypoxia	