

Instructional Module 7: ABG Practice 2

Student Name: _____

Date: _____

1	2	3
pH ↓ 7.34	pH ↓ 7.33	pH 7.57 ↑
PaCO2 ↓ 32.9 mmHg	PaCO2 41.3 mmHg ↑ N	PaCO2 48 mmHg ↑
HCO3 ↓ 19.2 mEq/L	HCO3 21.4 mEq/L	HCO3 48.2 mEq/L ↑
pO2 85.2	pO2 41	pO2 58.7
Interpretation:	Interpretation:	Interpretation:
metabolic acidosis	metabolic acidosis	metabolic alkalosis
normal	severe	severe
part comp	NO comp	part comp

4	5	6
pH ↓ 7.19	pH ↓ 7.09	pH ↓ 7.27
PaCO2 69.3 mmHg ↑	PaCO2 ↓ 12.4 mmHg	PaCO2 43 mmHg ↑ N
HCO3 23 mEq/L ↑	HCO3 ↓ 5.1 mEq/L	HCO3 13.4 mEq/L
pO2 40.9	pO2 115.1	pO2 29.1
Interpretation:	Interpretation:	Interpretation:
respiratory acidosis	metabolic acidosis	respiratory acidosis
severe	severe	severe
NO comp	part comp	NO comp

7	8	9
pH 7.45 ↑ N	pH ↓ 7.29	pH 7.61 ↑
PaCO2 ↓ 28 mmHg	PaCO2 79.5 mmHg ↑	PaCO2 ↓ 24 mmHg
HCO3 19.1 mEq/L	HCO3 37.1 mEq/L	HCO3 23 mEq/L
pO2 65.5	pO2 30	pO2 68
Interpretation:	Interpretation:	Interpretation:
respiratory alkalosis	respiratory acidosis	respiratory alkalosis
moderate	severe	moderate
full comp	part comp	NO comp

10	11	12
pH 7.51 ↑	pH ↓ 7.39 N	pH ↓ 7.31
PaCO2 ↓ 39.4 mmHg	PaCO2 ↓ 39 mmHg N	PaCO2 58.5 mmHg ↑
HCO3 31.2 mEq/L	HCO3 23.4 mEq/L	HCO3 26 mEq/L
pO2 77.3	pO2 80	pO2 74.5
Interpretation:	Interpretation:	Interpretation:
respiratory alkalosis	normal	respiratory acidosis
mild		mild
NO comp		NO comp

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13		14		15	
pH	7.46	pH	7.44	pH	7.36
PaCO ₂	34 mmHg	PaCO ₂	27.8 mmHg	PaCO ₂	75.1 mmHg
HCO ₃	26 mEq/L	HCO ₃	19.2 mEq/L	HCO ₃	40.6 mEq/L
pO ₂	43.8	pO ₂	100	pO ₂	65.2
Interpretation:		Interpretation:		Interpretation:	
res. alkalosis		res. alkalosis		resp. acidosis	
severe		normal		moderate	
NO COMP		FULL COMP		FULL	

16		17		18	
pH	7.44	pH	7.18	pH	7.36
PaCO ₂	48 mmHg	PaCO ₂	42 mmHg	PaCO ₂	30 mmHg
HCO ₃	32.6 mEq/L	HCO ₃	15 mEq/L	HCO ₃	15 mEq/L
pO ₂	63.6	pO ₂	68	pO ₂	80
Interpretation:		Interpretation:		Interpretation:	
meta. alkalosis		meta. acidosis		meta. acidosis	
moderate		moderate		normal	
FULL		NO COMP		FULL	

19		20		21	
pH	7.42	pH	7.52	pH	7.08
PaCO ₂	39 mmHg	PaCO ₂	47 mmHg	PaCO ₂	36 mmHg
HCO ₃	25.4 mEq/L	HCO ₃	26.5 mEq/L	HCO ₃	15 mEq/L
pO ₂	92	pO ₂	100	pO ₂	54
Interpretation:		Interpretation:		Interpretation:	
normal		meta. alkalosis		meta. acidosis	
		normal		severe	
		NO COMP		NO COMP	