

Instructional Module 7: ABG Practice 1

Student Name: _____

Date: _____

1		2		3	
pH	7.38 <i>Acidosis</i>	pH	7.60 <i>↑ Alkalosis</i>	pH	7.37 <i>N Acidosis ↓</i>
PaCO ₂	30mmHg <i>↓</i>	PaCO ₂	25mmHg <i>↓</i>	PaCO ₂	59 mmHg <i>↑</i>
HCO ₃	10mEq/L <i>↓</i>	HCO ₃	24mEq/L <i>N</i>	HCO ₃	34mEq/L <i>↑</i>
pO ₂	60	pO ₂	72	pO ₂	82
Interpretation:		Interpretation:		Interpretation:	
<i>Full compensation Metabolic Acidosis Moderate hypoxemia</i>		<i>Uncompensated RESP. Alkalosis Mild hypoxemia</i>		<i>Full compensation RESP. Acidosis Normal oxygen</i>	

4		5		6	
pH	7.56 <i>↑ Alkalosis</i>	pH	7.34 <i>N ↓ Acidosis</i>	pH	7.15 <i>↓ Acidosis</i>
PaCO ₂	40mmHg <i>N</i>	PaCO ₂	50mmHg <i>↑</i>	PaCO ₂	49 mmHg <i>↑</i>
HCO ₃	38mEq/L <i>↑</i>	HCO ₃	31mEq/L <i>↑</i>	HCO ₃	25mEq/L <i>N</i>
pO ₂	59	pO ₂	65	pO ₂	74
Interpretation:		Interpretation:		Interpretation:	
<i>No compensation Metabolic Alkalosis Severe hypoxemia</i>		<i>Partial compensation RESP. Acidosis Moderate hypoxemia</i>		<i>No compensation RESP. Acidosis mild hypoxemia</i>	

7		8		9	
pH	7.20 <i>↓ Acidosis</i>	pH	7.54 <i>↑ Alkalosis</i>	pH	7.42 <i>Alkalosis</i>
PaCO ₂	30 mmHg <i>↓</i>	PaCO ₂	44mmHg <i>N</i>	PaCO ₂	38mmHg <i>N</i>
HCO ₃	18mEq/L <i>↓</i>	HCO ₃	36mEq/L <i>↑</i>	HCO ₃	25.3mEq/L <i>N</i>
pO ₂	55	pO ₂	64	pO ₂	92
Interpretation:		Interpretation:		Interpretation:	
<i>Partial compensation Metabolic Acidosis severe hypoxemia</i>		<i>No compensation Metabolic Alkalosis Moderate hypoxemia</i>		<i>Normal ABG Normal O₂</i>	

10		11		12	
pH	7.31 <i>↓ Acidosis N</i>	pH	7.27 <i>↓ Acidosis</i>	pH	7.55 <i>↑ Alkalosis</i>
PaCO ₂	33mmHg <i>↓</i>	PaCO ₂	35mmHg <i>N</i>	PaCO ₂	34mmHg <i>↓</i>
HCO ₃	16mEq/L <i>↓</i>	HCO ₃	10mEq/L <i>↓</i>	HCO ₃	16.8mEq/L <i>↓</i>
pO ₂	68	pO ₂	78	pO ₂	91
Interpretation:		Interpretation:		Interpretation:	
<i>Partial compensation Metabolic Acidosis moderate hypoxemia</i>		<i>No compensation Metabolic Acidosis mild hypoxemia</i>		<i>Partial compensation RESP. Alkalosis Normal oxygen</i>	