

## Instructional Module 7: ABG Practice 2

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

1		2		3	
pH	7.34	pH	7.33	pH	7.57
PaCO <sub>2</sub>	32.9 mmHg	PaCO <sub>2</sub>	41.3 mmHg	PaCO <sub>2</sub>	48 mmHg
HCO <sub>3</sub>	19.2 mEq/L	HCO <sub>3</sub>	21.4 mEq/L	HCO <sub>3</sub>	48.2 mEq/L
pO <sub>2</sub>	85.2	pO <sub>2</sub>	41	pO <sub>2</sub>	58.7
<b>Interpretation:</b>		<b>Interpretation:</b>		<b>Interpretation:</b>	
Partial compensation		Uncompensated		Partial compensation	
Metabolic acidosis		Metabolic acidosis		Metabolic alkalosis	
Normal oxygenation		Severe hypoxemia		Severe hypoxemia	

4		5		6	
pH	7.19	pH	7.09	pH	7.27
PaCO <sub>2</sub>	69.3 mmHg	PaCO <sub>2</sub>	12.4 mmHg	PaCO <sub>2</sub>	43 mmHg
HCO <sub>3</sub>	23 mEq/L	HCO <sub>3</sub>	5.1 mEq/L	HCO <sub>3</sub>	13.4 mEq/L
pO <sub>2</sub>	40.9	pO <sub>2</sub>	115.1	pO <sub>2</sub>	29.1
<b>Interpretation:</b>		<b>Interpretation:</b>		<b>Interpretation:</b>	
Uncompensated		Partial compensation		Uncompensated	
Respiratory acidosis		Metabolic acidosis		Metabolic acidosis	
Severe hypoxemia		Hyperoxygenation		Severe hypoxemia	

7		8		9	
pH	7.45	pH	7.29	pH	7.61
PaCO <sub>2</sub>	28 mmHg	PaCO <sub>2</sub>	79.5 mmHg	PaCO <sub>2</sub>	24 mmHg
HCO <sub>3</sub>	19.1 mEq/L	HCO <sub>3</sub>	37.1 mEq/L	HCO <sub>3</sub>	23 mEq/L
pO <sub>2</sub>	65.5	pO <sub>2</sub>	30	pO <sub>2</sub>	68
<b>Interpretation:</b>		<b>Interpretation:</b>		<b>Interpretation:</b>	
Fully compensated		Partial compensation		Uncompromised	
Respiratory alkalosis		Respiratory acidosis		Respiratory alkalosis	
Moderate hypoxemia		Severe hypoxemia		Moderate hypoxemia	

10		11		12	
pH	7.51	pH	7.39	pH	7.31
PaCO <sub>2</sub>	39.4 mmHg	PaCO <sub>2</sub>	39 mmHg	PaCO <sub>2</sub>	58.5 mmHg
HCO <sub>3</sub>	31.2 mEq/L	HCO <sub>3</sub>	23.4 mEq/L	HCO <sub>3</sub>	26 mEq/L
pO <sub>2</sub>	77.3	pO <sub>2</sub>	80	pO <sub>2</sub>	74.5
<b>Interpretation:</b>		<b>Interpretation:</b>		<b>Interpretation:</b>	
Uncompensated		Normal ABG		Uncompensated	
Metabolic alkalosis		Normal oxygenation		Respiratory acidosis	
Mild hypoxemia				Mild hypoxemia	

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<b>13</b>		<b>14</b>		<b>15</b>	
pH	7.46	pH	7.44	pH	7.36
PaCO <sub>2</sub>	34 mmHg	PaCO <sub>2</sub>	27.8 mmHg	PaCO <sub>2</sub>	75.1 mmHg
HCO <sub>3</sub>	26 mEq/L	HCO <sub>3</sub>	19.2 mEq/L	HCO <sub>3</sub>	40.6 mEq/L
pO <sub>2</sub>	43.8	pO <sub>2</sub>	100	pO <sub>2</sub>	65.2
<b>Interpretation:</b>		<b>Interpretation:</b>		<b>Interpretation:</b>	
Uncompensated		Fully compensated		Fully compensated	
Respiratory alkalosis		Respiratory alkalosis		Respiratory acidosis	
Severe hypoxemia		Normal oxygenation		Moderate hypoxemia	

<b>16</b>		<b>17</b>		<b>18</b>	
pH	7.44	pH	7.18	pH	7.36
PaCO <sub>2</sub>	48 mmHg	PaCO <sub>2</sub>	42 mmHg	PaCO <sub>2</sub>	30 mmHg
HCO <sub>3</sub>	32.6 mEq/L	HCO <sub>3</sub>	15 mEq/L	HCO <sub>3</sub>	15 mEq/L
pO <sub>2</sub>	63.6	pO <sub>2</sub>	68	pO <sub>2</sub>	80
<b>Interpretation:</b>		<b>Interpretation:</b>		<b>Interpretation:</b>	
Fully compensated		Uncompensated		Fully compensated	
Metabolic alkalosis		Metabolic acidosis		Metabolic acidosis	
Moderate hypoxemia		Moderate hypoxemia		Normal oxygenation	

<b>19</b>		<b>20</b>		<b>21</b>	
pH	7.42	pH	7.52	pH	7.08
PaCO <sub>2</sub>	39 mmHg	PaCO <sub>2</sub>	47 mmHg	PaCO <sub>2</sub>	36 mmHg
HCO <sub>3</sub>	25.4 mEq/L	HCO <sub>3</sub>	26.5 mEq/L	HCO <sub>3</sub>	15 mEq/L
pO <sub>2</sub>	92	pO <sub>2</sub>	100	pO <sub>2</sub>	54
<b>Interpretation:</b>		<b>Interpretation:</b>		<b>Interpretation:</b>	
Normal ABG		Partial compensation		Uncompensated	
Normal oxygenation		Metabolic alkalosis		Metabolic acidosis	
		Normal oxygenation		Severe hypoxemia	