Instructional Module 7: ABG Practice 1

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1	2	3
pH 7.38	pH 7.60	pH 7.37
PaCO2 30mmHg	PaCO2 25mmHg	PaCO2 59 mmHg
HCO3 10mEq/L	HCO3 24mEq/L	HCO3 34mEq/L
pO2 60	pO2 72	pO2 82
Interpretation:	**Interpretation:**	**Interpretation:**
Metabolic Acidosis	Respiratory Alkalosis	Respiratory Acidosis
Full Compensation	Uncompensated	Full Compensation
Moderate O2	Mild hypoxia	Normal O2

4	5	6
pH 7.56 ↑	pH 7.34 ↓ acidosis	pH 7.15 ↓ acidosis
PaCO2 40mmHg N	PaCO2 50mmHg ↑	PaCO2 49 mmHg ↑
HCO3 38mEq/L ↑	HCO3 31mEq/L ↑	HCO3 25mEq/L N
pO2 59	pO2 65	pO2 74 mild
Interpretation:	**Interpretation:**	**Interpretation:**
Metabolic Alkalosis	Respiratory Acidosis	Respiratory Acidosis
uncompensated	Partial compensated	Uncompensated
severe hypoxia	moderate hypoxia	mild hypoxia

7	8	9
pH 7.20 ↓ acidosis	pH 7.54 ↑ Alkalosis	pH 7.42 ↑ alkalosis
PaCO2 30 mmHg ↓	PaCO2 44mmHg N	PaCO2 38mmHg N
HCO3 18mEq/L ↓	HCO3 36mEq/L ↑	HCO3 25.3mEq/L N
pO2 55 severe	pO2 64 moderate	pO2 92 Normal
Interpretation:	**Interpretation:**	**Interpretation:**
Metabolic Acidosis	Metabolic Alkalosis	Normal ABG
Partial compensated	Uncompensated	
severe Hypoxia	moderate hypoxia	

10	11	12
pH 7.31 ↓ acidosis	pH 7.27 ↓ acidosis	pH 7.55 ↑ Alkalosis
PaCO2 33mmHg ↓	PaCO2 35mmHg N	PaCO2 34mmHg ↓
HCO3 16mEq/L ↓	HCO3 10mEq/L ↓	HCO3 16.8mEq/L ↓
pO2 68 moderate	pO2 78 mild	pO2 91 Normal
Interpretation:	**Interpretation:**	**Interpretation:**
Metabolic Acidosis	Metabolic Acidosis	Respiratory Alkalosis
Partial compensated	Uncompensated	partial compensated
moderate hypoxia	mild hypoxia	Normal O2