

Instructional Module 7: ABG Practice 1

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1	2	3
pH $\downarrow$ 7.38	pH 7.60 $\uparrow$	pH $\downarrow$ 7.37
PaCO ₂ 30mmHg	PaCO ₂ $\rightarrow$ 25mmHg	PaCO ₂ 59 mmHg
HCO ₃ $\rightarrow$ 10mEq/L	HCO ₃ 24mEq/L	HCO ₃ 34mEq/L
pO ₂ 60	pO ₂ 72	pO ₂ 82
Interpretation:	Interpretation:	Interpretation:
MET. ACIDOSIS	RESPIRATORY ALKALOSIS	RESPIRATORY ACIDOSIS
FULL COMPENSATION	NO COMPENSATION	FULL COMPENSATION
MODERATE HYPOXEMIA	MILD HYPOXEMIA	NORMAL OXYGENATION

4	5	6
pH 7.56 $\uparrow$	pH 7.34	pH $\downarrow$ 7.15
PaCO ₂ 40mmHg	PaCO ₂ 50mmHg	PaCO ₂ 49 mmHg
HCO ₃ 38mEq/L	HCO ₃ 31mEq/L	HCO ₃ 25mEq/L
pO ₂ 59	pO ₂ 65	pO ₂ 74
Interpretation:	Interpretation:	Interpretation:
METABOLIC ALKALOSIS	RESPIRATORY ACIDOSIS	RESPIRATORY ACIDOSIS
UNCOMPENSATED	PARTIAL COMPENSATION	NO COMPENSATION
SEVERE HYPOXEMIA	MODERATE HYPOXEMIA	MILD HYPOXEMIA

7	8	9
pH $\downarrow$ 7.20	pH 7.54 $\uparrow$	pH 7.42
PaCO ₂ 30 mmHg	PaCO ₂ 44mmHg	PaCO ₂ 38mmHg
HCO ₃ 18mEq/L	HCO ₃ 36mEq/L	HCO ₃ 25.3mEq/L
pO ₂ 55	pO ₂ 64	pO ₂ 92
Interpretation:	Interpretation:	Interpretation:
METABOLIC ACIDOSIS	METABOLIC ALKALOSIS	$\odot$ ABG
PARTIAL COMPENSATION	UNCOMPENSATED	
SEVERE HYPOXEMIA	MODERATE HYPOXEMIA	$\odot$ OXYGENATION

10	11	12
pH $\downarrow$ 7.31	pH $\downarrow$ 7.27	pH 7.55 $\uparrow$
PaCO ₂ 33mmHg	PaCO ₂ 35mmHg	PaCO ₂ $\downarrow$ 34mmHg
HCO ₃ $\downarrow$ 16mEq/L	HCO ₃ $\downarrow$ 10mEq/L	HCO ₃ $\downarrow$ 16.8mEq/L
pO ₂ 68	pO ₂ 78	pO ₂ 91
Interpretation:	Interpretation:	Interpretation:
METABOLIC ACIDOSIS	METABOLIC ACIDOSIS	RESPIRATORY ALKALOSIS
PARTIAL COMPENSATION	UNCOMPENSATED	PARTIAL COMPENSATION
MODERATE HYPOXEMIA	MILD HYPOXEMIA	$\odot$ OXYGENATION