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ABG practice Homework

ACID	BASE ALK
↓ 7.35 –	7.45 ↑
↑ 45 –	35 ↓
↓ 22 –	26 ↑

Oxygenation
N = 80-100
Mild = 70-79
Mod = 60-69
Severe = <60

① pH - 7.38 N (ACID)
→ CO_2 - 30 ↓ ALK = Metabolic Acidosis
CO_3 - 10 ↓ (ACID) Fully compensated
O_2 - 60 Moderate Hypoxemia

② pH - 7.60 ↑ ALK = Resp. ALK
CO_2 - 25 ↓ ALK uncompensated
→ CO_3 - 24 N Mild Hypoxemia
O2 - 72

③ pH - 7.37 ACID N
CO_2 - 59 ↑ ACID = Resp Acid
CO_3 - 34 ← fully comp
O2 - 82 Normal oxygenation

④ pH - 7.56 ↑ ALK = Metabolic ALK
CO_2 - 40 N ← uncompensated
CO_3 - 38 ↑ ALK Severe hypoxemia
O2 - 59

⑤ ph - 7.34 ↓ Acid
CO_2 - 50 ↑ Acid = Resp Acid
CO_3 - 31 ← ↑ partial comp.
C_2 - 65 Moderate hypoxemia

⑥ Ph 7.15 ↓ Acid = Resp Acid
CO_2 - 49 ↑ Acid Uncompensated
CO_3 - 25 ← N Mild hypoxemia
O_2 - 74

⑦ ph - 7.20 ↓ Acid
→ CO_2 - 30 ↓ ALK
CO_3 - 18 ↓ ACID
O2 - 55
= Metabolic Acid
partial comp
Severe hypoxemia

⑧ ph = 7.54 ↑ ALK
→ CO_2 = 44 ↑ N
CO_3 = 36 ↑ ALK
O_2 = 64
= Metabolic ALK
Uncompensated
Moderate hypoxemia

⑨ ph - 7.42 (N) Alk
CO_2 - 38 (N) = Normal ABG
CO_3 - 25.3 (N)
O_2 - 92 (N)

⑩ ph - 7.31 (↓) Acid
→ CO_2 - 33 (↓) Alk = Metabolic acidosis
CO_3 - 16 (↓) Acid partial comp
O_2 - 68 Moderate hypoxemia

⑪ ph - 7.27 (↓) Acid
CO_2 - 35 (N) ← = Metabolic Acidosis
CO_3 - 10 (↓) Acid uncomp
O_2 - 78 Mild hypoxemia

⑫ Ph - 7.55 (↑) Alk = Resp Alk
CO_2 - 34 (↓) Alk partial comp
CO_3 - 16.8 ← normal oxygenation
O_2 - 91