

ATI MEDSURG Final Exam Study Guide

1. Understand the ABG's and how to decide if a patient is in resp acidosis or resp alkalosis, metabolic acidosis, or metabolic alkalosis.

ABG	pH	PaCO ₂	HCO ₃
Respiratory Acidosis			normal
Respiratory Alkalosis			normal
Metabolic Acidosis		normal	
Metabolic Alkalosis		normal	

2. Understand the function of potassium, sodium, and calcium in the body- especially the heart and how to administer these electrolytes. Be able to correct the calcium using the calculation.
 - Sodium: Na
 - Normal value: 135-145
 - Hyponatremia <135
 - Common imbalance in the elderly caused by Na loss or water gain
 - Symptoms: decrease BP, poor skin turgor, headache, nausea, cramps
 - If seizure occurs: small infusion of 3%-5% NaCl SLOWLY
 - Hypernatremia >145
 - Sodium gain or water loss
 - Problem with elderly/pts who can't sense thirst or don't meet fluid needs
 - Symptoms: increase in temp, dry swollen tongue, neuro symptoms/changes=FIRST sign usually
 - Potassium: K
 - Normal value: 3.5-5.0
 - K+ necessary for normal cardiac rhythms, necessary for skeletal and smooth muscle contraction, K+ helps make glycogen deposit in the liver
 - K imbalances can be life threatening
 - Hyperkalemia >5.0
 - Manifestations: cardiac changes & dysrhythmias, ECG shows tented T waves, arrhythmias, muscle weakness, GI cramps

Ati Med Surg Test Study Guide

ML Morrison



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$x_1, x_2, x_3 \geq 0$

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