

Patho Study Guide

Lesson 1: Homeostasis

• Pressure that is due to albumin in the bloodstream?

- **Oncotic** - a form of osmotic pressure exerted by proteins. In the blood, albumin is the most common plasma protein and is, therefore, a primary determinant of oncotic pressure.
- Albumin controls osmotic pressure in vascular system, builds volume

• One question was about the difference in children and adult immunity. I believe the answer was naive T cells

- Fluid and electrolyte levels are regulated by **osmoreceptors**, which regulates actions such as thirst, ADH, the kidneys, and RAAS.

• **Fluid Deficit/Dehydration**

- Causes:
 - Excessive loss
 - Inadequate intake
 - Or the combination of both
- Risk Factors:
 - Vomiting
 - Diarrhea
 - Excessive sweating
 - Insufficient water intake
- Manifestations:
 - Dry mucous membranes
 - Decreased skin turgor (tenting)
 - Decreased urine output
 - Low blood pressure
 - Tachycardia and weak heart rate
 - Confusion (brain cells are dehydrated)
 -

Quiz

1. A patient with a viral illness and severe vomiting has an elevated CO_2 level and a blood pH of 7.53. She is breathing slowly. What condition does the patient have?

• **Metabolic alkalosis**

- The patient's pH and CO_2 level are both elevating (moving in the same direction). This indicates metabolic alkalosis. The CO_2 level is high because her respiratory system is attempting to compensate for the high pH by exhaling less and retaining more CO_2 .

Patho Pharmacology Study Guide

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