

**Acid-Base Cases** (to be done in lecture)

<b>Case 1: 23 year old male, hiking in mountains</b>	
Symptoms	short of breath, lethargic, drifting in/out of consciousness, labored breathing ↑HR ↓BP
Blood Tests	pH = 7.207
	CO <sub>2</sub> = 35 mmHg
	HCO <sub>3</sub> <sup>-</sup> = 12.7 mEq/L
	O <sub>2</sub> = 59mmHg
Other Tests	
Acid-Base Diagnosis	
Diagnosis	

<b>Case 2: 51 year old male</b>	
Symptoms	short of breath, vomiting, intense headaches, unconsciousness, labored breathing, pale skin, dry mouth, had alcohol addiction, currently using antabuse ↑HR ↓BP ↓respirations
Blood Tests	pH = 7.48
	CO <sub>2</sub> = 45 mmHg
	HCO <sub>3</sub> <sup>-</sup> = 30.3 mEq/L
	O <sub>2</sub> = 99 mmHg
Other Tests	
Acid-Base Diagnosis	
Diagnosis	

<b>Case 3: 9 year old female</b>		
Symptoms	abdominal discomfort, lethargic, polydypsia, (increased thirst), polyuria (increased urination), deep breathing (31 breaths/minute) ↑HR ↑BP	
Blood Tests	pH = 7.051	
	CO <sub>2</sub> = 19 mmHg	
	HCO <sub>3</sub> <sup>-</sup> = 3.75 mEq/L	
	O <sub>2</sub> = 100 mmHg	
Other Tests		
Acid-Base Diagnosis		
Diagnosis		

<b>Case 4: 38 year old female</b>		
Symptoms	cyanotic, hypothermic, no eye reflexes, had been depressed and despondant ↓HR ↓BP ↓respirations	
Blood Tests	pH = 7.15	
	CO <sub>2</sub> = 62 mmHg	
	HCO <sub>3</sub> <sup>-</sup> = 20.2 mEq/L	
	O <sub>2</sub> = 40 mmHg	
Other Tests		
Acid-Base Diagnosis		
Diagnosis		