

# While Waiting....

Sodium, serum	* ↓	130	
Potassium, serum	*	3.8	
Chloride, serum	↓↓	66	
Bicarbonate, serum	* ↓	18.0	
Glucose, serum	*	7.1	

Is this patient...  
Or...

1. Slightly acidotic, don't panic
2. Very very sick

Sodium, serum	* ↓	130	
Potassium, serum	*	3.8	
Chloride, serum	↓↓	66	
Bicarbonate, serum	* ↓	18.0	
Glucose, serum	*	7.1	

- Does bicarb 18 = mild metabolic acidosis?
- Anion gap =  $\text{Na} - \text{Cl} - \text{HCO}_3^- = 130 - 66 - 18 = 46$   
--- this is a severe HAGMA

### Why is bicarb so 'normal'?

- For anion gap  $\downarrow 1$ , expect  $\downarrow \text{HCO}_3^-$  by 1
- $\downarrow$  anion gap  $\gg \gg \downarrow \text{HCO}_3^-$
- There is a concomitant metabolic alkalosis

Urea, serum	* ↑	92.3
Sodium, serum	* ↓	130
Potassium, serum	*	3.8
Chloride, serum	↓↓	66
Bicarbonate, serum	* ↓	18.0
Glucose, serum	*	7.1
Creatinine, serum	* ↑	> 2200

## Diagnosis:

- Severe HAGMA --- uremic acidosis
- With metabolic alkalosis --- vomiting