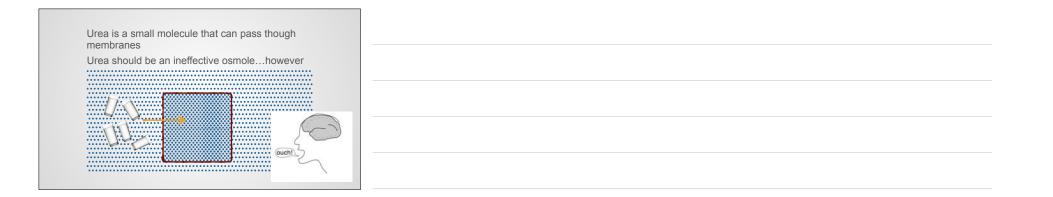


If the patient has hyperglycemia, then they are lacking insulin and so glucose becomes an effective osmole.	
glucose*+insulin=ineffective osmoleglucose*+insulin=effective osmole	









We care about tonicity more than osmolality because we care about water movement
Osmolality is the concentration of all the particles in solution
Tonicity is the concentration of all the osmotically active particles in solution
Sodium is the primary source of tonicity in the extracellular compartment

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Sodium is the primary source of tonicity in the extracellular compartment
Glucose and urea are generally not osmotically active but can become active in certain conditions
Glucose in the absence of insulin Urea after rapidly being reduced by dialysis