



70 kg person: 60% H₂O = 42 L H₂O
 2/3 is ICF = 21 L; 1/3 is ECF = 14 L (5 L in blood or 3 L of plasma)

Clearance: $\frac{([in] - [out]) \cdot flow}{[in]}$ or $\frac{\text{urinary excretion (mg/min)}}{[plasma]}$ -> ml/min
 Normal creatinine excretion = 1 mg/min; (for creatinine, clearance = GFR)
 serum Cr = 1 mg/dl -> 100 ml/min, 2mg/dl -> 50 ml/min, etc.

pH = 6.1 + log($\frac{[HCO_3^-]}{0.3 \cdot PaCO_2}$)
 Plasma Osm = 2*Na + glucose/18 + BUN/2.8

FE_{Na} = $\frac{Urine_Na/Plasma_Na}{Urine_Cr/Plasma_Cr}$
 => if <1% - prerenal ARF, >2% - renal ARF (e.g. ATN)

