Last updated: Jan 8, 2019

*My Calculating g/kg Ethanol Intake from Grams of 20% EtOH Consumed

CORRECT WAY TO CALCULATE INTAKE (G/KG)

- **ORIGINAL EQUATION:**
  - **I(g/kg)= (Vc x De) / MW(in kg)**
    - Intake = volume consumed(Vc) X density of ethanol(De) , divided by mouse weight(MW) (in kg)
    - Density of ethanol=0.789 g/ml
  - **Must first calculate Vc:**
    - Vc=(Wi-Wf [-Waste])*D20e
    - volume consumed = initial bottle weight - final weight -waste weight [if including in your eqn] * density of 20% ethanol
    - Density of 20% ethanol = 0.97336 g/ml
    - Vc is NOT the same value used in the Intake equation!
    - **Vce = volume consumed of ethanol (alone) = Vc X 0.2 (since 20% ethanol)**
- **CORRECTED EQUATION :**
  - **I (g/kg) = (Vce x De)/MW**
    - **Vce= (Wi-Wf [-Waste])*D20e*0.2**