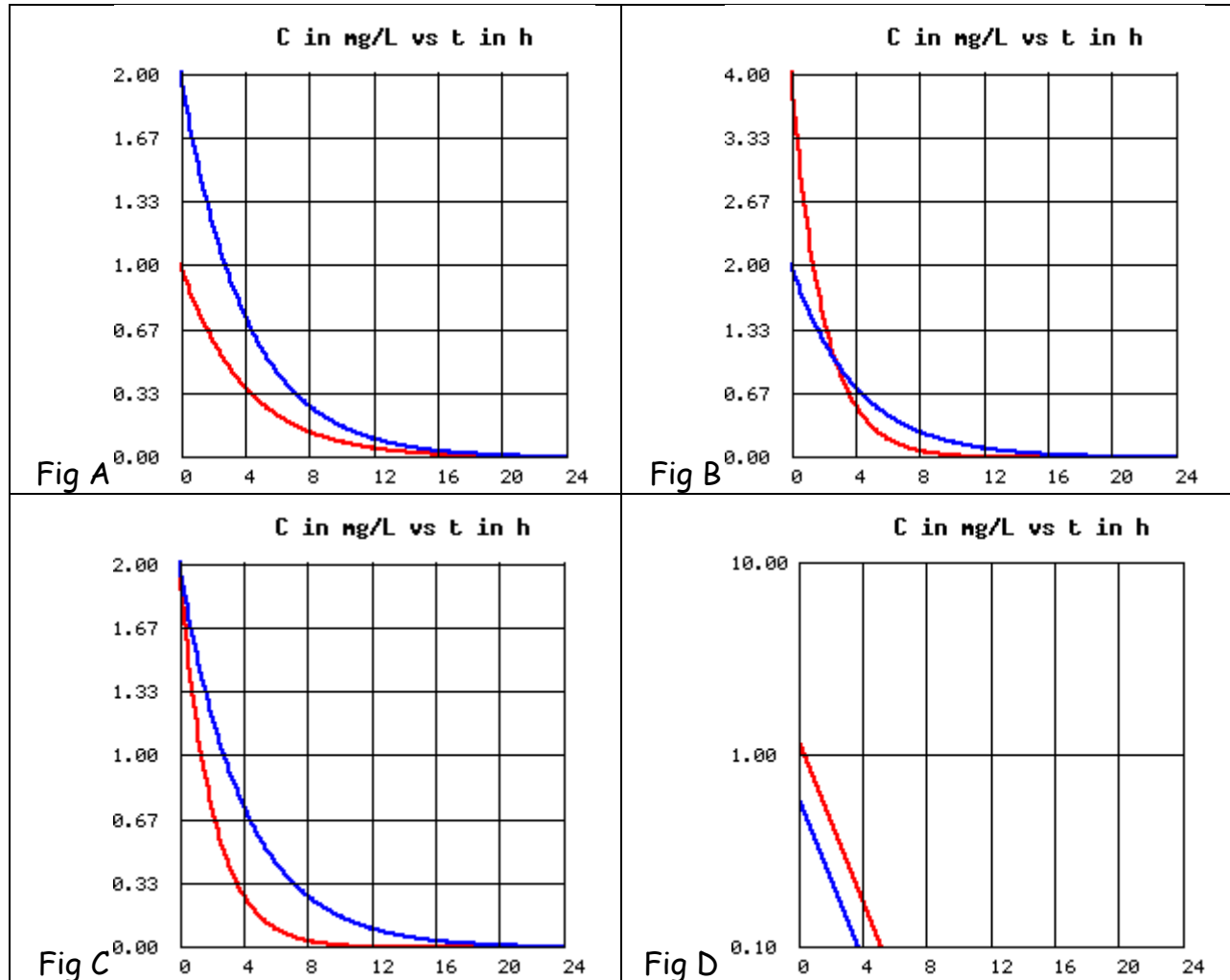


- 1) Identify the Pharmacokinetic metrics: **Dose**, **Volume of Distribution** or the **Clearance** (only pick one per scenario), whose changes would determine the differences observed in the following concentration time profiles. (eg: The structure of the answer would look like - The changes in the profiles of Fig A would be because of ____ parameter)



2. List the assumptions that apply for a one compartment body model. (IV bolus administration).

True or False:

- 1) For a drug characterized by a one compartment body model and administered as an IV bolus the expression $AUC_{0-\infty} = C_0/K_e$ can be used to calculate the $AUC_{0-\infty}$. (T/F)
- 2) $CL_{tot} = CL_{bil} + CL_{ren} + CL_{met}$ is always true. (T/F)
- 3) In the equation $C = \left(\frac{Dose}{Vd}\right) * e^{(-k_e * t)}$, the expression $e^{(-k_e * t)}$ has a value between 0 and 1. (T/F)