

- 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)

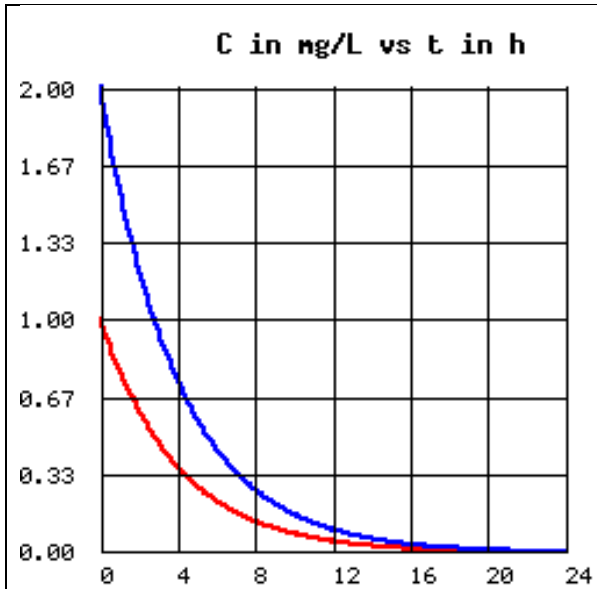


Fig A

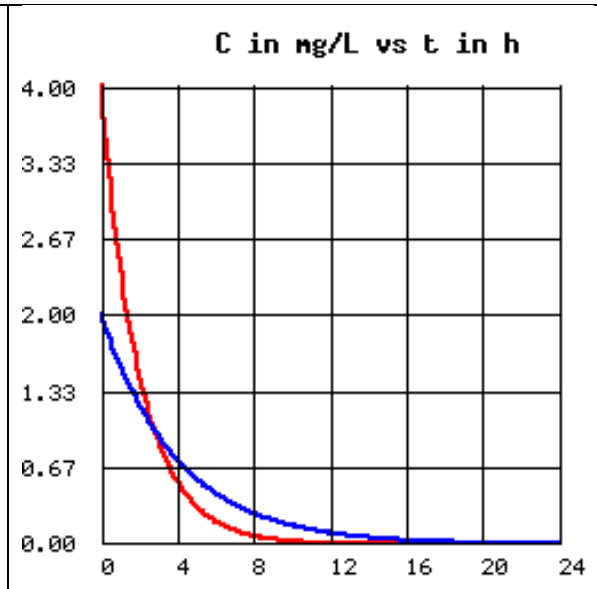


Fig B

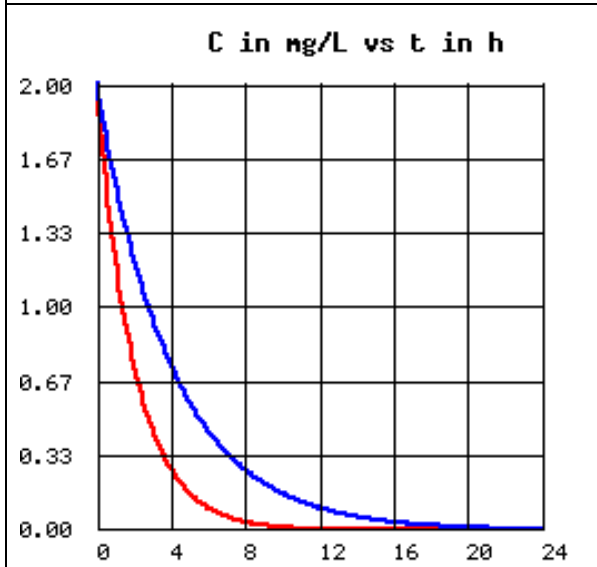


Fig C

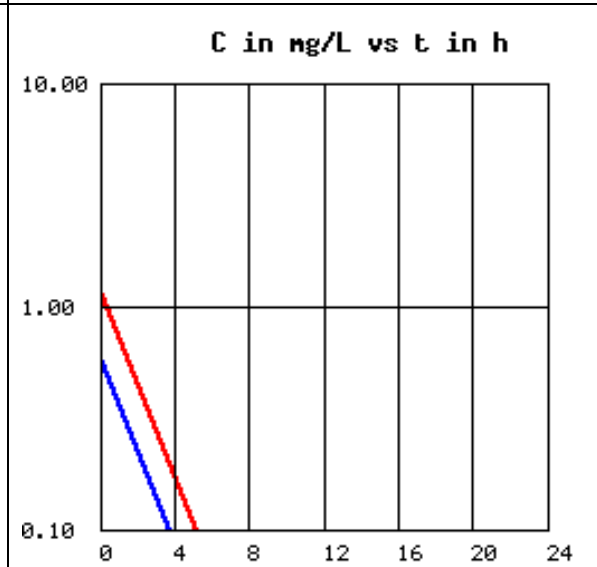


Fig D

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

3. Indicate with an **arrow**, (-), or (?) for how a change in the given parameter would affect the other parameters

<b>CL</b>	<b>VD</b>	<b>DOSE</b>	<b>AUC</b>	<b>Ke</b>
↑				
	↓			
		↑		
			↑	
				↑