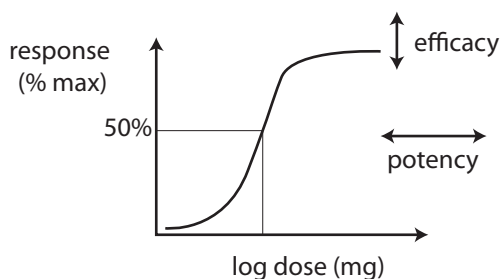


First 2010
VIVA 1

This viva will discuss dose response curves and the information that can be gained from them. Candidates were asked to draw a dose response curve for morphine and to describe the information that relates to it. Areas of basic pharmacology including ED₅₀/potency, efficacy, effect of competitive and non competitive antagonists were also tested

"Please draw a dose response curve for morphine and note the effective concentration"



"What is the definition of potency and demonstrate this on the diagram above?"

Potency is the amount of drug required to produce maximal effect. If we shift the curve to the left, a greater dose is req to achieve ED₅₀, and therefore the potency is increased.

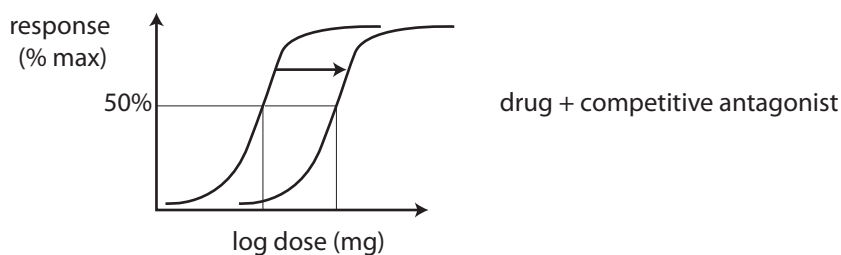
"What is the definition of affinity and demonstrate this on the diagram above?"

Is a measure of the avidity with which a drug binds to a receptor, it is measured using the KD50

"What is the definition of efficacy and demonstrate this on the curve above"

Efficacy is the maximal possible drug effect

"On a dose response curve please draw the effect of a competitive antagonist"



"On a dose response curve please draw the effect of a drug and a non competitive antagonist"

