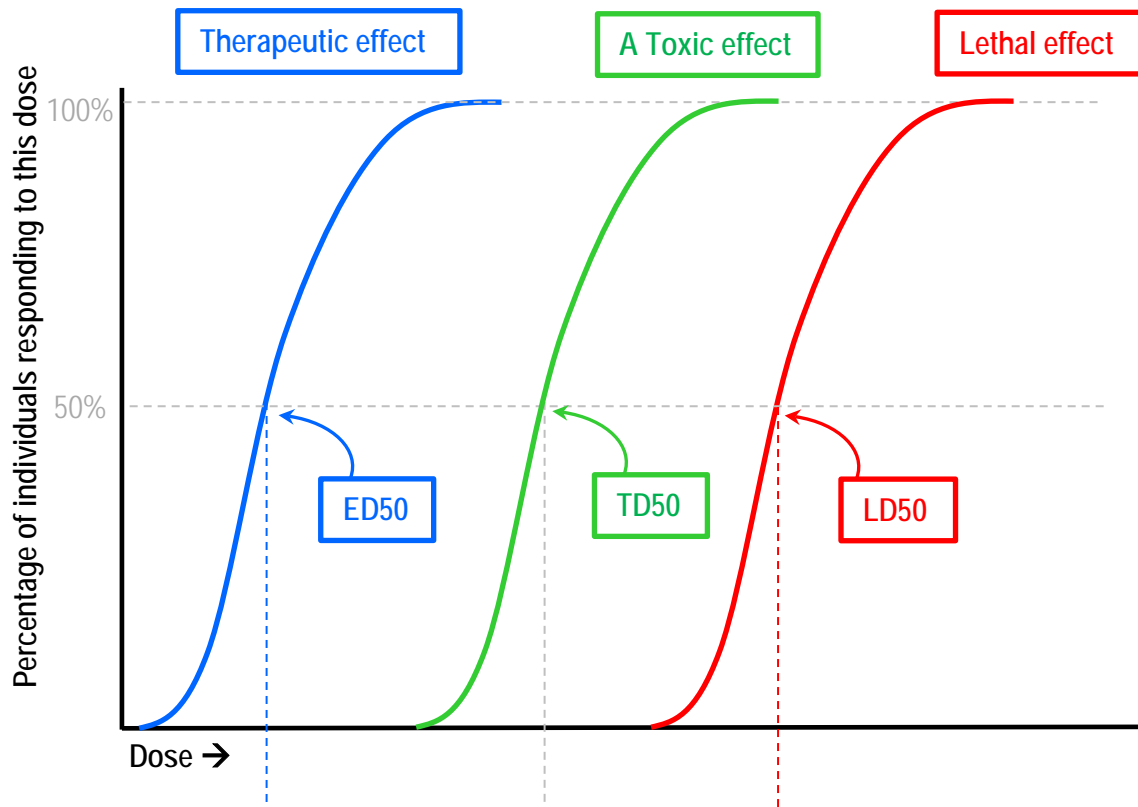


# Dose response: EC50, ED50, LD50

## Important definitions



### ED50: Median effective dose

The dose required to achieve 50% of the desired response in 50% of the population

### TD50: Median Toxic dose of 50% for 50%:

The dose required to get 50% of the population reporting this specific toxic effect

### LD50: Median lethal dose

The dose required to achieve 50% mortality from toxicity

### EC50: Half maximum effective concentration

The concentration of a drug at which 50% of its maximum response is observed

### LC50: Half lethal concentration

The concentration of a drug at which 50% mortality from toxicity is observed

These are derived from bell curves; i.e. in a population of individuals, there will always be variation in drug response – but a majority of them will respond roughly the same way to this drug, and that's the fat part of the bell curve.