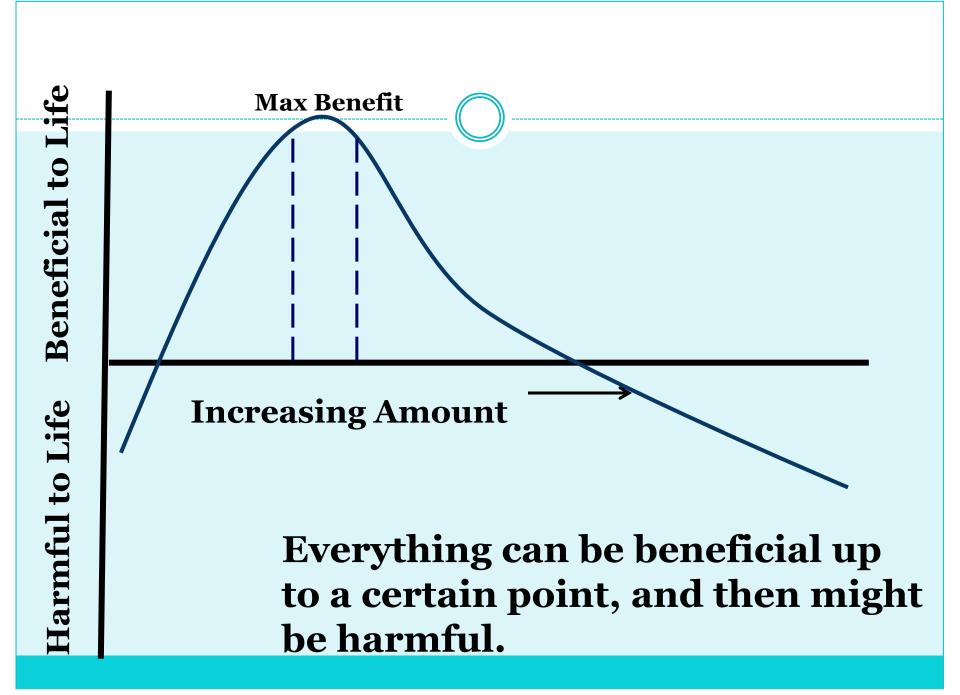
LD-50 Lab Introduction

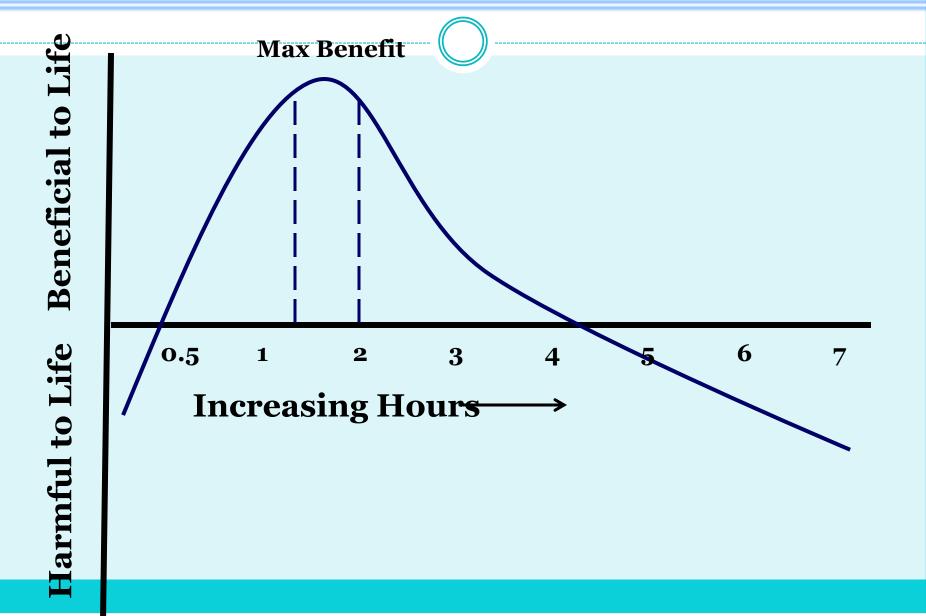
SCRIPPS CLASSROOM CONNECTION RANDIE BUNDY AND JENNIFER OGO

"Everything is poisonous yet nothing is poisonous."

Paracelsus



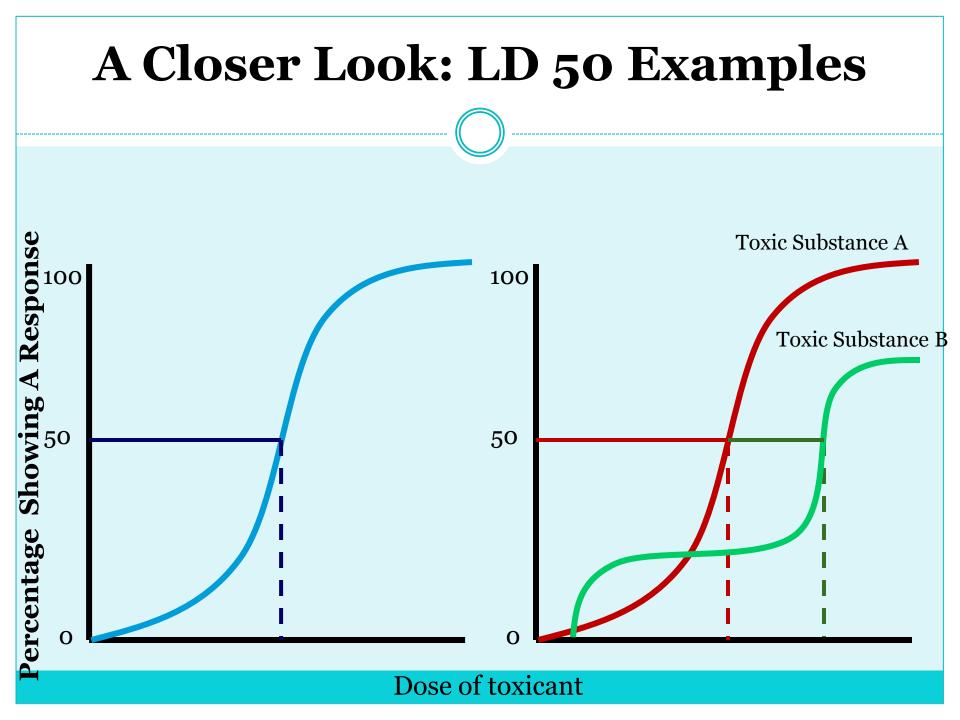
Example: Watching TV



Dose Response Curves

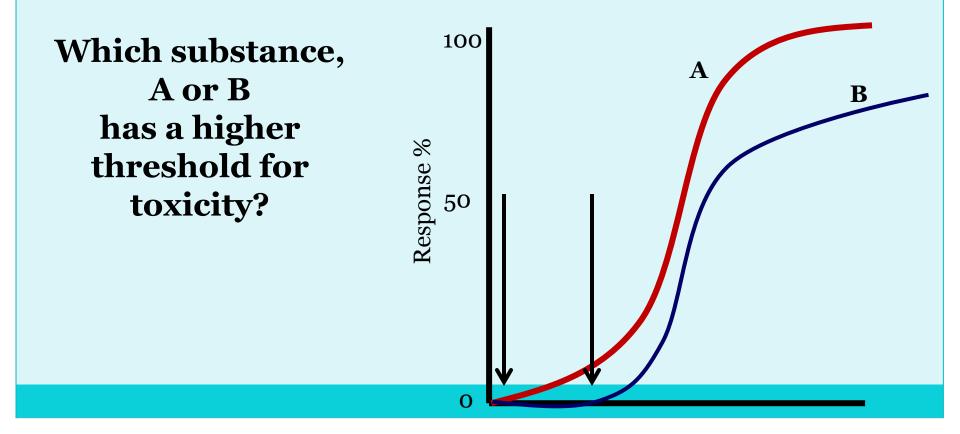
Different responses to different "doses"
Must use indicators

Important dose "indicator"
<u>LD50</u>- lethal dose, where 50% of the population dies



Threshold Effects

• **Threshold:** below this dose level, some effects are seen to occur in response to the dose



What do you do with the LD50 values?

Risk Assessments

 Determining potential adverse environmental health effects on people exposed to pollutants

LD50 and threshold effects

Includes many steps and processing

Eventually incorporated into regulations