

Chemical Risk Assessment

- ...is the systematic (semi-)scientific characterization of potential adverse health effects that result from human exposures to hazardous chemicals or situations.
- Risk is the probability of an adverse outcome under specific conditions. **If there is no exposure then there is no risk. If there is no dose then there is no risk.**
- **What happens at very low exposure levels or doses?**

Goals of Risk Assessment

- to identify limits of exposure for chemical or physical agents below which there is no risk or a remote or acceptable level of potential for harm.
- to protect the most sensitive subsets of the population. To protect the sensitive sub-populations, information from **the lowest end** of the dose response curve is used along with other assumptions and data about the agent in question.

Risk

- Risk assessment (best science, information)
- Risk management (decisions lead to regulations)
- Risk communication (PH education to different stakeholders)