

Report 19: Dose/Response application to Environmental Health

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Brief History: While levels of asbestos have been measured in the environment and disease measured, there has been no dose response relationship established. Quantitation of hazards/human exposure is fundamental in risk assessment. This is recognized as a gap that NIEHS can and should address.

Discussion Highlights: Very little exposure data, either from populations or individual subjects are available. There is some occupational exposure information but is generally inadequate as there is no connection to biomarkers or physiological response. There is little or no information on exposure to or dose response for mixtures. Samples via the CDC are anticipated that will allow analysis of levels of mixture chemicals in subjects' blood.

Recommendations:

Dose

Develop/apply sensitive analytical methods to quantitate exposures in human populations to understand background levels and understand when abnormal exposures have occurred.

Response

ROC should incorporate dose/response

Translate outcomes from Tox 21/effects in model systems to quantitative exposures of human populations

Discussion Participants:

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