



**Oral 1.2      Methodology and modeling**

**Abstract O1.2-01**

**THE EVOLUTION OF DOSE RECONSTRUCTION ANALYSES OVER TIME**

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The field of dose-reconstruction, often referred to as retrospective exposure assessment, has evolved through various levels of sophistication over the last 30 years. We describe the various approaches for assessing the historical uptake of chemicals in foods, soil, house dust, consumer products, fish, and other media. How to use information from various fields (e.g., industrial hygiene, health physics, air pollution, ergonomics, toxicology), coupled with an individual's life history, to estimate his/her previous uptake of one or more chemicals will be presented. We also describe how simulation studies have become an increasingly popular method for characterizing historical exposures. Over the past ten years, a great deal more confidence has been placed in the results of dose-reconstructions and they have become the backbone for many occupational and environmental epidemiology studies.