EFSPI EUROPEAN FEDERATION OF STATISTICIANS IN THE PHARMACEUTICAL INDUSTRY
Representing Statistical Associations in Europe

SEE-ing the Future: Empowering Health Decisions through Structured Expert Elicitation

"We are a community dedicated to leading and promoting the use of statistics within the healthcare industry for the benefit of patients."

What is Structured Expert Elicitation (SEE)?

- **SEE (Structured Expert Elicitation)** is a method used to systematically capture expert opinions, typically when there's uncertainty or limited data: often seen in clinical trial design, health technology assessment (HTA), risk assessment, and engineering.

- Quantify the impact of uncertainty in decision-making using a **formal methodology** to **minimise potential bias**

- Follows a **structured process**
  - Expert selection to ensure expert diversity
  - Provision of statistical training
  - Evidence dossier compilation
  - Elicitation of individual- and group-level distributions
  - Transparent documentation

Why is SEE Important for Regulatory and HTA Submissions?

- Provides **transparency and rigor** in handling uncertainty

- Fill the **evidence gap**
  - Treatment effects in trial design
  - Extrapolations (e.g., overall survival beyond trial data)
  - Missing data or rare events
  - Structural model parameters (e.g., cure fractions)

- Aligns with regulatory and HTA expectations for **robust, defensible decision-making**

Min-Hua Jen
Moderator
Senior Director at Eli Lilly & the Company

Structured expert elicitation (SEE): ensuring rigor in regulatory and HTA submissions (5 mins)

Roel Straetemans
Distinguished Scientist at Johnson & Johnson

Prior elicitation in clinical development, examples and lessons learned (15 mins)

Kate Ren
Professor in Statistical HTA at University of Sheffield and member of NICE Committee C

Bespoke structure expert elicitation protocol for long-term survival outcomes (15 mins)

Christopher Jackson
Senior Statistician at the MRC Biostatistics Unit, University of Cambridge

survextrap: flexible and transparent Bayesian survival modelling using combinations of data and judgements (15 mins)

Hugo Pedder
Research Fellow at University of Bristol and member of NICE Committee A

What do we want to SEE? Views and challenges in appraising structure expert elicitation

(15 mins)


PANEL DISCUSSION