CASE STUDY

Survival analysis of patient-level data and economic modelling in immuno-oncology therapy

The challenge

Immuno-oncology (I-O) therapies show unique response patterns, such as long-term survival plateaus, that traditional portioned survival models often fail to capture. To better reflect the real benefits of I-O, our client sought to explore innovative survival analysis and economic modelling approaches.

Our approach

- Designed a clear, objective-driven study in partnership with our client, refined with input from an international expert panel.
- Prepared and analysed patient-level data from two pivotal trials, testing the fit of conventional and flexible survival functions, and assessing complete and partial responses.
- Defined I-O-specific health states to support novel economic model designs in the disease area.

How we made a difference

- This analysis resulted in four peer-reviewed publications examining how to best model I-O, and citations within the literature have contributed to the debate around preferred methods of survival analysis and economic evaluation.

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