Use Case

Cost-Effectiveness Analysis (CEA)

The Purpose
To conduct cost effectiveness analysis from payer perspective to assess willingness to pay as per ICER threshold guidelines.

About the Client
- INDUSTRY: Mid-size Pharma
- LOCATION: US
- THERAPEUTIC AREA: Oncology

Client Requirement
- To develop an economic model for comparing Client Intervention to Standard of Care.
- To calculate the Incremental Cost-Effectiveness Ratio (ICER) by conducting cost-effectiveness analysis.
- To create a Markov model-based simulation of the target patient cohort.

The Excelra Approach

- Define the intervention and target population
- Choose the form of economic evaluation
- Choose the perspective
- Define the implementation period and time horizon
- Obtain data
- Calculate the incremental cost-effectiveness ratio
- Adjusting for timing and uncertainty
  - Discount costs and health effects
  - Perform sensitivity analysis
  - Perform (probabilistic) uncertainty analysis

Reporting results
- Report the cost information
- Report the effectiveness information
- Report the uncertainty results
- Report the incremental effectiveness ratio
Excelra’s Contribution

Calculated the ICER for the intervention and conducted Tornado analysis to identify factors with highest impact on ICER.

The CEA model developed was used for communicating the value of the intervention to payers and providers.

Excelra’s Value Evidence Service Portfolio

- Outcomes Research
- Epidemiology Modelling
- Economic Modelling
- Value Evidence Communication
- RWE & Big Data Realization
- SLR & Meta-Analysis

For more information, visit https://www.excelra.com/value_evidence/#economic_modelling

About Excelra

Excelra’s data and analytics solutions empower innovation in life sciences across the value chain from discovery to market. The Excelra Edge comes from a seamless amalgamation of proprietary curated data assets, deep domain expertise and data science. The company’s multifaceted teams harmonize and analyze large volumes of disparate unstructured data using cutting-edge technologies. We galvanize data-driven decisions to unlock operational efficiencies to accelerate drug discovery and development. Over the past 18 years, Excelra has been the preferred data and analytics partner to over 90 global clients including 15 of the top 20 large Pharma.

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