CASE STUDY

Clinical and economic impact of influenza and paediatric vaccination strategies

The challenge

Quantifying the clinical and economic implications of vaccine coverage is complicated by many factors, such as herd immunity. Our client needed a flexible model to explore the implications of a live-attenuated influenza vaccine, for simple adaptation and rapid exploratory analysis across several countries.

Our approach

- A dynamic transition model, providing comprehensive assessment of the value of vaccination, while incorporating phases of infection and immunization status.
- Evaluated a range of vaccination programmes, considering which age bands and coverage would be needed.
- Conducted complex modelling of systems and the interaction of individuals, mapping multiple data sources to ensure simple (data light) local application across a wide range of countries.

How we made a difference

- Our model's design and flexibility allowed our client to quickly respond to local market needs, while robustly reflecting the complexity of an infectious disease.

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