



# Cost-of-Illness Analysis

## The Purpose

Cost-of-illness (COI) studies help decision makers assess the economic burden of disease or illness and the savings that potentially accrue if a preventative measure, novel therapy, or policy is implemented.

## About the Client

 **INDUSTRY**  
Mid-size Pharma

 **LOCATION**  
US

 **Therapeutic Area**  
Neuropsychiatry

## Client Requirement

To estimate the cost of illness and economic burden associated with the prevalence of a common, yet under-researched psychiatric condition from a societal perspective.

## The Anlitiks Approach

### MODEL SETUP

Define the model structure, time horizon, and perspectives

Define target population

Provide model inputs: population, time horizon, health state distribution, cost inputs, and transition probabilities

### CALCULATE TRANSITION PROBABILITIES

Use mortality data from published longitudinal studies

Derive point estimates and a range of transition probabilities

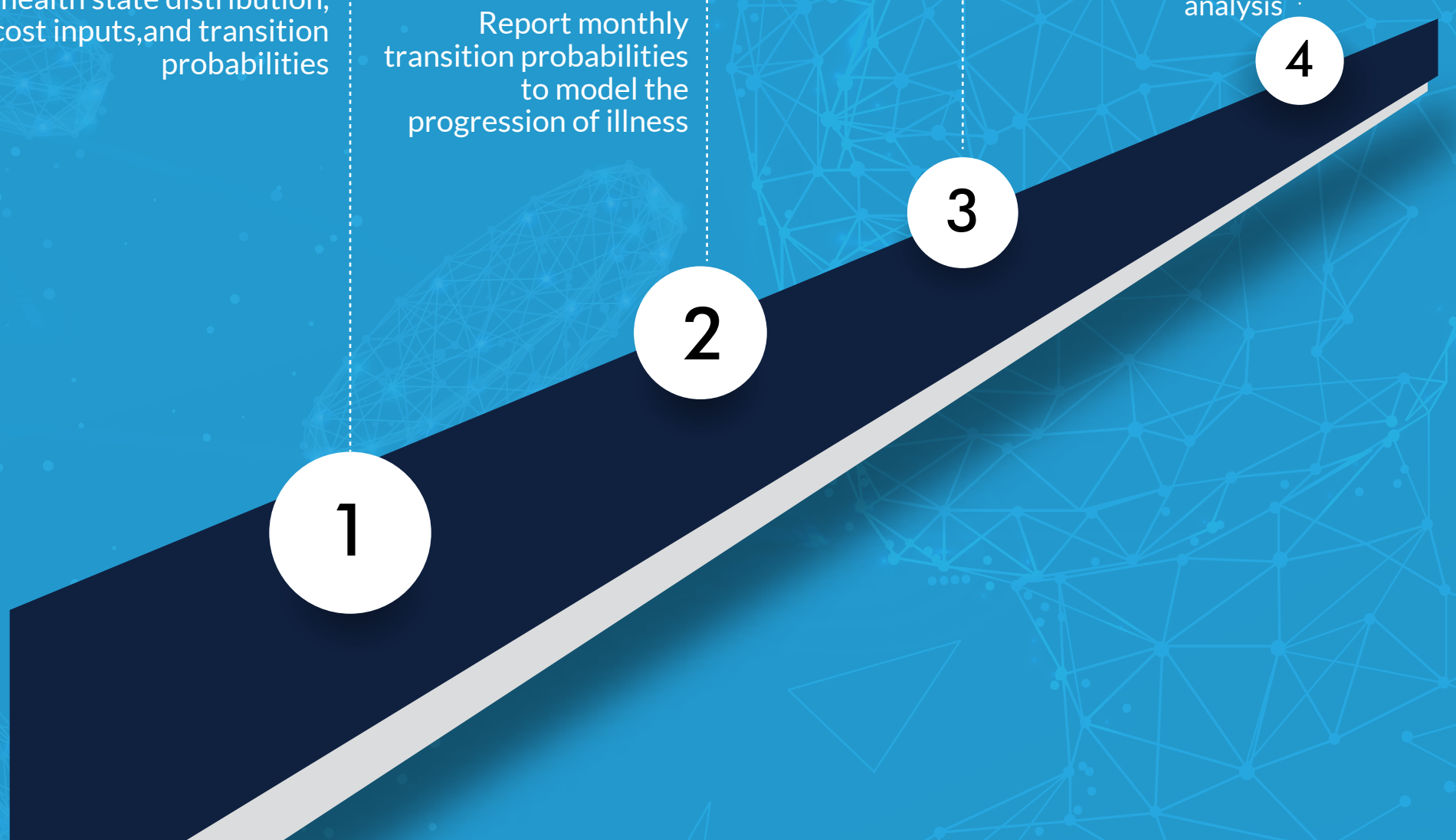
Report monthly transition probabilities to model the progression of illness

### ESTIMATE COSTS

Report annual societal costs (direct and indirect costs)

### CONDUCT SENSITIVITY ANALYSIS OF PARAMETERS

Test the robustness of the model results using a one-way deterministic sensitivity analysis and probabilistic sensitivity analysis



## Anlitiks' Contribution

- Anlitiks developed a prevalence-based COI model with the aim of drawing decision-maker interest to a psychiatric condition whose burden has been underestimated.
- Results of the study were later disseminated in an oral presentation, three posters, a manuscript, and an interactive model to convey the cost of illness to a larger audience.

 [www.anlitiks.com](http://www.anlitiks.com)

Welcome to Anlitiks. We believe patients should be given access to the products and medicines they need to achieve optimal health. Together with our clients, we are committed to transforming complex research into messaging that incorporates value-based evidence and strategy.

Our goal is to help our clients build and methodically capture their tangible value and insights for dissemination, while optimizing their commercial success.