



## Online Healthcare Modeling Course Agenda

### 1. Introduction

- Modeling goals
- Navigating the TreeAge Pro application

### 2. Decision Trees

- Model Types
- Decision Trees
  - Decisions & Strategies
  - Patient Pathways
  - Expected Values

### 3. Markov Models

- Markov Concepts
- Build Markov Models
  - Model Setup
  - Health States & Events
  - Entering and Referencing Model Inputs
- Analyze Markov Models via Cohort Analysis
- Time Dependence

### 4. Cost-Effectiveness Analysis

- Decision Analysis with Markov Models
  - Cloning to Reuse Model Structure
- Choose Optimal Strategy via ICER/NMB

### 5. Partitioned Survival Analysis (PartSA)

- PartSA Concepts
- Build PartSA Models
  - Survival Functions
  - Accumulating Value
- Analyze PartSA Models

### 6. Sensitivity Analysis

- Sensitivity Analysis Concepts
  - Studying individual parameter uncertainty
- One-Way Sensitivity Analysis
- Tornado Diagrams

### 7. Probabilistic Sensitivity Analysis (PSA)

- PSA Concepts
  - Studying Combined Parameter Uncertainty
- Distributions for parameter uncertainty
- PSA Analysis & Reports