

Module	Topic
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Day 1

Introduction

Introduce TreeAge Pro and its User Interface

Module 1: Build a Cost-Effectiveness Model

Build model structure
Create and use variables
Configure your model via Tree Preferences

Module 2: Analyze Cost-Effectiveness Model

Examine Expected Value calculations
Compare strategies via CEA
Examine dominance among strategies
Introduce Net Benefits calculations
Create Clones to reuse model structure

Module 3: Sensitivity Analysis

Examine uncertainty in individual parameters via Deterministic Sensitivity Analysis
Modeling exercise
Examine uncertainty of multiple parameters via Probabilistic Sensitivity Analysis (PSA)
Create and use distributions

Module 4: More on Variables, Model Validation, Bayes' Revision

Dashboard
Model Validation
Bayes' Revision

Day 2

Module 5: Markov Models

Markov model concepts
Build a state transition model
Build a simple Markov model
Markov Cohort Analysis
Half-cycle correction
Markov modeling exercise

Module 6: Markov - Decision Analysis

Incorporate Markov models into decision tree
Analyze decision tree with Markov models

Module 7: Markov - Time Dependence

Add time dependence to a Markov model
Create and use Tables
Time-in-state & Tunnels

Module 8: Heterogeneity and Event Tracking (Microsimulation)

Patient-Level Simulation
Heterogeneous cohort via distributions
Track events in model via trackers
Run Microsimulation analysis and interpret results

Module 9: Sensitivity Analysis and Microsimulation

One-way sensitivity analysis with Microsimulation
PSA with Microsimulation

Module 10: Advanced Modeling Techniques

Time-to-event simulation (DES)
Bootstrapping
Testing & debugging
Time Reporting
Global matrices
Extras