

CHERISH

Center for Health Economics of Treatment Interventions for
Substance Use Disorder, HCV, and HIV

Intro to TreeAge Healthcare Modeling

December 3rd, 2016

8:00 a.m. - 6:00 p.m.

Weill Cornell Medicine-1300 York Ave
New York, NY 10065

COURSE PROGRAM

Introduction

- Introduce TreeAge Pro and its User Interface
- Introduce primary elements of a model

Module 1: Build a Cost-Effectiveness Markov Model

- Introduce Markov Model Concepts and Structure
- Build a Markov Model

Module 2: Analyze Cost-Effectiveness Model

- Markov Cohort Analysis
- Create Clones to reuse model structure
- Compare strategies via Cost-Effectiveness Analysis
- Introduce Net Benefits calculations

Module 3: Sensitivity Analysis

- Examine Uncertainty in individual parameters via Deterministic Sensitivity Analysis
- Examine Uncertainty of multiple parameters via Probabilistic Sensitivity Analysis

Module 4: Time Dependence in Markov Models

- Add time dependence to Markov Model
- Time-in-state & Tunnels

Module 5: Heterogeneity and Event Tracking (Microsimulation)

- Patient-Level Simulation Concepts
- Review simulation elements in Microsimulation model
- Run Microsimulations analysis and interpret results