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Healthcare Analysis using TreeAge Pro2011

2-Day Professional Development Workshop

East Asia Training & Consultancy Pte Ltd, in conjunction with Treeage Software, are happy to invite you to attend a two-day professional development workshop, reviewing biostatistical methods & health economics and using TreeAge software to analyse the course databases. TreeAge is particular useful to professionals working in areas of biostatistics, health economics and healthcare analysis.

Course Outline

Here is just a sampling for what your will learn in our two-day training program, designed for both the beginning and intermediate user:

·   Learn about Cost-Effectiveness & Inverted Cost-Effectiveness Analysis

·   Pick up tips & tricks on how to efficiently build models

·   Learn how to use variables and sensitivity analysis

·   Learn basic and advanced Markov Modeling techniques

·   Gain a thorough understanding of Monte Carlo Simulation

·   Reinforce your learning through a Markov/Cost-Effectiveness Model case study

Our courses are very comprehensive and intensive, designed to deliver a firm grounding in relevant concepts and practical experience in applying these concepts to common decision analysis problems. Unlike other training classes that may leave you asking, "How do I apply this to my everyday job?," our two-day training program leaves you with proven techniques, templates and example models that you can refer to after the training.

Who should Attend

The training is designed for both the beginning and intermediate TreeAge user. Researchers, physicians, clinicians, public health professionals, students and lecturers in biostatistics, epidemiology and biomedical sciences, from public and private institutions who wish to increase their familiarity with quantitative methods in the principles of health economics and biostatistics, or health economics applied to health care planning and evaluation, so they can more effectively address problems in health research and use computational tools to solve practical problems. This course will also benefit anyone involved in building, reviewing and/or analysing health economic models built in TreeAge.

Fee & Registration

The fee includes extensive course materials, data-sets, lectures, lunches, morning and afternoon coffee/tea breaks, receptions and the opportunity to network with medical researchers, epidemiologists and biostatisticians across the various industries in Asia.

The number of participants is restricted. Please register early to guarantee your place. Please complete the official registration form and fax to (65)-62506369 or email it to us at administrator@eastasiatc.com.sg to reserve your place. Confirmation will only be made upon receiving full payment. Further instructions will be sent to confirmed participants.

Essential Course Requirements

The course is a "hands-on" workshop. Participants will build their own models on their own laptops for future use. Therefore, attendee will be **required to bring a laptop** to the course and be able to download an executable file to their machine before attending the course.

Course Outline (subject to minor changes)

Module 1: Model Structure & Inputs, TreeAge Pro Application Interface
Examine model structure and inputs
Introduce the TreeAge Pro User Interface

Module 2: Build CE Model
Build a Cost-effectiveness (CE) Model
Create and Use Variables
Formula Editor/AutoFill
Edit Tree Preferences
Introduce Clones

Module 3: Analyze CE Model
Roll Back and Expected Value Calculations
Cost-Effectiveness Analysis (CEA)
Dominance in CEA
Net Benefits Calculations

Module 4: Deterministic Sensitivity Analysis
Deterministic Sensitivity Analysis
Identify Thresholds
2-Way Sensitivity Analysis and Tornado Diagrams
Modeling Exercise

Module 5: Probabilistic Sensitivity Analysis
Monte Carlo Simulation
Distributions
Probabilistic Sensitivity Analysis

Module 6: Markov Models
Introduce Markov Models Example07a-MarkovSimple.trex (review)

Module 7: Markov Models & Time Dependence
Time Dependence & Tables
Time-In-State & Tunnels

Module 8: Microsimulation
Microsimulation Trackers
Microsimulation Analysis

Module 9: Microsimulation - Decisions & PSA
Decision Trees & Microsimulation
Two-Dimensional Simulation

Module 10: Markov/Microsimulation - Advanced Techniques
Discrete Event Simulation
Parallel Trials
Bootstrapping with Patient Data
Dynamic Cohort
EVPPI Simulation

Module 11: Extras 1
Stored Analyses
Object Interface
Testing & Debugging
Simulation Probabilities
Seeding Simulations
GlobalN Function
Interfaces
Getting Help