

CET	Who Ex#	Monday 23 rd June	Who Ex#	Tuesday 24 th June	Who Ex#	Wednesday 25 th June	Who Ex#	Thursday 26 th June	Who Ex#	Friday 27 th June
AM 10.00 - 11.15	#1 DM	Welcome and Introductions - Introduction to HTA and Economic Evaluation - HTA around the globe - Reimbursement and the case of NICE - Cost-effectiveness thresholds	#5 BS/D M Ex 1-8	Decision-analytic models - Decision trees - Case study in diagnostics	#9 GT/D H Ex 14-15	PSA set-up for Markov Models Part 1 - Effectiveness Parameters - Survival analysis -	#13 GT/D H Ex 22	Decision Uncertainty: Cost of Making the wrong decision - Value of Information EVPI, EVPPI, EVSI	#17 DH/G T	Use of Real World Evidence for decision making Part 3 - Analytical approaches Case study and exercises
11.15-11.30 Coffee Break										
AM 11.30 - 12.45	#2 BS	Economic evaluations - The QALY - Costs and Perspectives - Types of evaluation - Cost-utility analysis - Analysis outputs - Net Benefit	#6 BS/D M Ex 1-8	Decision-analytic models - Considerations in diagnostics	#10 DM/G T Ex 16-17	PSA set-up for Markov Models Part 2 - Cost Parameters Utility Parameters	#14 GT/D H	Introduction to Modelling in R Process Packages/resource R Shiny -	#18 DH/G T	Current methodological debate in HTA - The threshold, opportunity cost and budget - Spillover effects - Equity vs efficiency
12.45-13.45 Lunch										
PM 13.45 - 15.00	#3 DM	Trial-based economic evaluations - Set-up - Analysis - Considerations and challenges	#7 BS/D M Ex 1-8	Decision-analytic models - One-way sensitivity analyses - Headroom analysis	#11 GT/D M Ex 18-19	PSA outputs Part 1 - Running a PSA - Outputs - Problems with scatterplots, ICERs - Incremental Net benefit	#15 DH/G T Ex 23	Use of Real World Evidence for decision making Part 1 - What is RWE? - Challenges and opportunities		Independent completion of remaining exercises
15.00-15.15 Coffee Break										
PM 15.15 - 16.30	#4 BS Ex 1	Decision model-based economic evaluations - When and why we use them - Data required and outputs - Types of model - Decision Trees	#8 DM/B S Ex 9-13	Decision-analytic models - Markov models - Matrices and Traces - Introduction to probabilistic analyses (PSA)	#12 DM/D H Ex 20-21	PSA outputs Part 2 - Lambda and Cost Effectiveness Acceptability Curves - Cost-Effectiveness - Acceptability Frontiers	#16 DH/G T Ex 24	Use of Real World Evidence for decision making Part 2 - Analytical approaches Case study and exercises		Independent completion of remaining exercises

DM David; GT Giovanni; BS Beth; DH Dan

Original Advanced Modelling Course exercises not covered in class: 1-7, 17, 20, 22, 24, 25, 29, 30, 35, 36, 37-39