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| **Week** | **Theme** | **Recorded lecture (1hr)** | **Lecturer** | **Practical Exercise (~2hrs)** | **Lead** |
| **1** | Introduction to Economics & Health Economics | Key concepts and economic tools; scarcity, need, demand, opportunity cost, margins, efficiency and equity. Techniques for economic appraisal CEA, CUA, CBA (CCA, CMA). Trial based and modelling. | KB | Discussion board exercise ‘NHS £2billion/week and counting’ based reflection.  | KB |
| **2** | Why is health ‘different’? | Market failure, supply & demand, equity considerations | RM | Case study (capabilities - Sen?) Signpost further reading  | RM |
| **3**  | Health care systems: finance | Alternative systems for organising and financing health care | CG | Discussion board: payment mechanisms. Reflections on different countries.  | CG |
| **4**  | Measuring & valuing costs for economic appraisal | Approaches to measuring & valuing costs. Resource use and costing for economic evaluation. Discounting exercise.  | CG | Calculating costs: Access unit cost sources, combining with resource use, inflating to current prices (Excel based) | CG  |
| **5**  | Measuring & valuing outcomes for economic appraisal: life years | Measuring life years for economic evaluation - life tables, survival curves, measuring life years | JL | Life tables, Calculating LYG (Excel) | JL |
|  | *Revision break* |
| **6**  | Measuring & valuing outcomes for economic appraisal: health outcomes | Choosing relevant outcome measures for HTA; clinical outcomes; HRQoL; QALYs. Within lecture exercise | KB | Patient reported EQ-5D outcomes, calculate QALY (Excel) | KB |
|  | Analysis & tools for decision making | Incremental analysis and decision rules, NMB, presenting uncertainty for cost-effectiveness analysis. Within lecture exercise – KB | KB | Discounting costs & QALYs, calculating ICER, calculating NMB. Decision Rules Advanced / extra: PSA exercises? | KB |
| **8**  | Cost-benefit analysis | CBA Methods. CBA in public health / population health studies.  | EM | Case study: how a CBA design could have improved the study | EM |
| **9**  | Critical appraisal of economic evaluations | Guidelines, checklists, reporting standards. Appraising published economic evaluations using CHEERs guideline. | KB | Case Study and practical: critical appraisal of economic evaluation using CHEERS | KB |
| **10** | Healthcare systems: decision making | HTA policy making in the UK and around the globe (NICE, SMC, international cases: reference case, thresholds, QALYs v’s DALYs) | EG | Presentation “Discuss the reference case of a country in relation to approach to HTA decision making” e.g. European, Canada, Australia, Asia | EG |
| **Extra resources** | Problem Solving session | Revision session? Students post questions and outstanding problems?  | KB | Extra practicals and demonstrations?  |  |