Health Technology Assessment & the Art of Decision Making Online Workshop

8 February – 10 March 2021

WORKSHOP PROGRAMME

Learning outcomes

- Understand the range of processes and methods used in conducting HTA in Singapore
- Develop critical appraisal skills to assess the clinical and economic evidence of health technologies
- Understand the key considerations and trade-offs of employing HTA to inform decision-making in Singapore
- Apply principles of HTA, including economic evaluation, to guide the introduction of new drugs and medical technologies in institutions

Date	Segment
8 February to 7 March 2021	Online self-directed learning • Pre-recorded lectures • Online quizzes • Discussion board
8 to 10 March 2021 Mon – Wed 4.00pm to 6.30pm	Virtual classroom via Zoom app • Hands-on exercises • Mock Drug Advisory Committee (DAC) meeting role-play

**The programme is accurate as of January 2021 and may be subjected to further refinement if necessary, before the actual workshop.*

8 February to 7 March 2021	
Online self-directed learning by participants on Duke NUS CoRE's Learning Management System. Learning will be via pre-recorded lectures, quizzes and a discussion board to facilitate participants engagements with faculty.	
Part 1: Assessment of Clinical Effectiveness & Safety Evidence	
Topic	**Faculty**
1. Overview of Health Technology Assessment (HTA) and its role in policy decision-making	Prof Tracy Merlin
2. Framing the policy and research question	Prof Tracy Merlin
3. Developing the search strategy and selection of evidence	Prof Tracy Merlin
4. Critical appraisal of study design and execution	Prof Tracy Merlin
5. Interpretation and appraisal of meta-analyses	Prof Tracy Merlin
6. Determining clinical significance, applicability and Minimal Clinically Important Difference (MCID)	Prof Tracy Merlin

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Part 2: Assessment of Modelled and Economic Evidence	
Topic	**Faculty**
7. Evaluation of medical tests, using a linked evidence approach	Prof Tracy Merlin
8. Overview of economic evaluation	Ms Camille Schubert
9. Perspective and time horizons	Ms Camille Schubert
10. Measuring health outcomes	Ms Camille Schubert
11. Measuring costs	Ms Camille Schubert
12. Data sources: Trial-based analysis vs modelled analysis	Ms Camille Schubert
13. Translating clinical data to inform the economic decision (applicability and outcome transformation)	Ms Camille Schubert
14. Translating clinical data (extrapolation)	Ms Camille Schubert
15. Interpretation of Incremental Cost Effectiveness Ratios (ICERs)	Ms Camille Schubert
16. ICER thresholds	Adj A/Prof Kwong Ng
17. Critical appraisal of cost-effectiveness analysis (CEA)	Ms Camille Schubert
Part 3: Employing HTA in Decision-Making	
Topic	**Faculty**
18. Hospital-based HTA	Prof Tracy Merlin

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19. Overview of process and decision-making criteria of Drug Advisory Committee (DAC) and Medical Technology Advisory Committee (MTAC)	Adj A/Prof Kwong Ng
8 to 10 March 2021 (Mon to Wed, 4.00pm to 6.30pm)	
Virtual classroom via Zoom app for participants to consolidate learnings via hands-on exercises and mock Drug Advisory Committee (DAC) meeting role-play of a drug subsidy deliberation.	
Date	**Segment**
8 Mar 2021, Mon 4.00pm – 6.30pm	Hands-on exercises: 1. Defining PICO (Population, Intervention, Comparator, Outcome) 2. Critical appraisal of randomised controlled trial (RCT)
9 Mar 2021, Tues 4.00pm – 6.30pm	Hands-on exercises: 1. Costing 2. Deriving utility 3. Calculating the Incremental Cost Effectiveness Ratio (ICER) 4. Critiquing cost-effectiveness analysis (CEA) studies
10 Mar 2021, Wed 4.00pm – 6.30pm	Role play as a member of the Ministry of Health Drug Advisory Committee (DAC) to deliberate a subsidy recommendation for a drug 1. Role play in breakout groups 2. Reconvening and group presentation to the MOH Director of Medical Services 3. Summary and wrap up

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Recommended pacing & important dates

Participants are required to put in 5 to 6 hours of self-study per week and strongly encouraged to keep to the recommended schedule below. This will optimise participants' ability to achieve the desired workshop learning outcomes.

Week	Date(s)	Recommended schedule
1	8 – 14 Feb	• Complete topics 1 - 4 and quizzes relating to those topics
2	15 – 21 Feb	• Complete topics 5 - 7 and quizzes relating to those topics
	22 Feb (Mon)	• Faculty will post answers to queries posted on discussion board from 8 to 21 February • Pre-reading I (Manufacturer Evidence Submission) for 10 March Zoom session will be uploaded to LMS. Participants are to complete the pre-reading I by 1 March.
3	22 – 28 Feb	• Complete topics 8 - 13 and quizzes relating to those topics
	1 Mar (Mon)	• Exercises for 8 & 9 March Zoom sessions and Pre-reading II (ACE Critique) for 10 March Zoom session will be uploaded to LMS. Participants are to complete the pre-reading II by 8 March. [*Note:Participants are NOT required to pre-read the exercises for 8 & 9 March Zoom sessions*]
4	1 – 7 Mar	• Complete topics 14 - 19 and quizzes relating to those topics
	8 Mar (Mon)	• Faculty will post answers to queries posted on discussion board from 22 February to 7 March

Answering of queries on the discussion board

Participants can use the discussion boards if they require help or clarifications for any of the online lectures or pre-readings for the 10 March Zoom session. Faculty will access the discussion board at the mid-point and at the end of the online learning segment, on the 22 February and 8 March respectively, to answer the queries.

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