NUS
National University
of Singapore

Saw Swee Hock
School of Public Health

SPECIALISATION: HEALTH TECHNOLOGY ASSESSMENT

- Awarded if overall GPA is minimum 4.0 for students admitted AY2021/2022 and before.
- Effective from AY2022/2023 intake, a minimum grade of 'B' for all specialisation courses and SPH5005 Practicum is required to qualify for a specialisation.
- Not available for students admitted from AY2024/2025 onwards.

COMPETENCIES

(a) Analyse key/ emergent concepts of health systems reform, including universal health coverage, integrated care, value-based care, and people-centred care.

(b) Demonstrate an understanding of the role of HTA in informing healthcare decision making

(c) Develop search strategies that are appropriate for the various types of clinical questions

(d) Conduct systematic reviews and meta-analysis to synthesize evidence for HTA

(e) Construct a basic computer simulation model to address a policy or research question related to HTA

(f) Apply econometric methods to the analysis of person level data to generate effectiveness and cost estimates for HTA

(g) Apply methods to minimize confounding when analysing observational data

SPECIALISATION COURSES (24 UNITS)

1. SPH5401 Health Economics and Financing
2. SPH5412 Economic Methods in Health Technology Assessment
3. SPH5420 Evidence synthesis for HTA
4. SPH5421 Modelling Techniques in HTA
5. SPH5422 Applied Health Econometrics for HTA
6. SPH5423 Simulation for Health Technology Assessment

SPH5005 PRACTICUM REQUIREMENTS

For students taking this specialisation, the practicum SPH5005 must involve the health technology assessment of a public health intervention and may include cost-effectiveness analysis, qualitative research (e.g. understanding the social value of a new technology), systematic review (e.g. ethical considerations pertaining to the introduction of a new technology). Health technology is not confined to drugs, and would include medical devices, diagnostics, screening tests, procedures, support systems (e.g. electronic medical records), organization systems (e.g. clinical pathway), etc. In addition, students may develop and

validate a new computer simulation model. Furthermore, students may develop a new theoretical framework for evaluating health technology.