

MMPH 6173 Personalised public health

Coordinator: Prof Dennis Ip

Course Description:

Personalised public health is the study of the impact of advancements in genetic, genomic, information and other relevant technologies on advancing modern public health practice. The course will start with an exploration on the inter-relationship of genetic, environmental, and other factors on shaping disease susceptibility, and followed by a detailed examination on the potential impact and challenges on modern public health practice given by these technological advancement. Specific issues to be discussed include advanced approaches in health promotion, disease screening, control and prevention, health risk prediction, individualized disease management and prevention, and ethical, legal, cultural, economic and policy issues involved when applying genomics and digital health technologies to inform modern public health practice.

Prerequisite: None

Term 3 (Monday)

Contact person: Ms Nicole Tsang

Date	Time	Lecture Topic	Lecturer	Venue
12 May 2025	6:30 – 9:30 pm	1. An overview of Personalized public health	Prof D Ip	TBC
19 May 2025	6:30 – 9:30 pm	2. Influencing practice 1: Management of inherited diseases	Prof D Ip	TBC
26 May 2025	6:30 – 9:30 pm	3. Influencing practice 2: Improving clinical management of common diseases	Prof D Ip	TBC
02 June 2025	6:30 – 9:30 pm	4. Influencing practice 3: Risk prediction and monitoring for common diseases	Prof D Ip	TBC
09 June 2025	6:30 – 9:30 pm	5. Influencing practice 4: Changing public health practice in the genomic era	Prof D Ip	TBC
16 June 2025	6:30 – 9:30 pm	6. Influencing practice 5: Health care and protection in the digital era	Prof D Ip	TBC
23 June 2025	6:30 – 9:30 pm	7. Control and regulation of genetic testing and other new technologies	Prof D Ip	TBC
30 June 2025	6:30 – 9:30 pm	8. System requirement for personalized medicine and public health practice	Prof D Ip	TBC
07 July 2025	6:30 – 9:30 pm	9. Medical research in the era of personalized public health practice	Prof D Ip	TBC
14 July 2025	6:30 – 9:30 pm	10. Project Presentation	Prof D Ip	TBC

Course Assessment:

Written tasks: 40%
Participation: 20%
Group assignment: 20%
Project presentation: 20%

Recommended Textbook:

Genetics, Health Care and Public Policy: An Introduction to Public Health Genetics by Alison Stewart, Philippa Brice, Hilary Burton, Paul Pharoah, Simon Sanderson, Ron Zimmern. Cambridge University Press; 1 edition (17 May 2007)

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