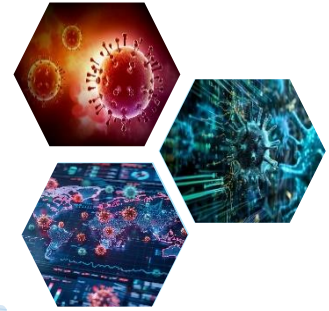




Seminar on Application of Artificial Intelligence (AI) on Infectious Diseases and Infection Control on 13 November 2024



09:00

Welcome address

Dr Hong CHEN

*Consultant-in-charge, Infectious Disease Control
Training Centre, Hospital Authority/ Head, Infection
Control Branch, Centre for Health Protection,
Department of Health*



Session 3

Artificial intelligence in optimizing antibiotic use and discovering novel antibiotics

Moderator **Dr Edmond MA**

*Consultant(AMR), Infectious Disease Control Training Centre,
Hospital Authority / Infection Control Branch, Centre for
Health Protection, Department of Health*

Session 1

Overview of Artificial Intelligence applications in healthcare

Moderator

Dr Hong CHEN

*Consultant-in-charge, Infectious Disease Control Training
Centre, Hospital Authority/ Head, Infection Control Branch,
Centre for Health Protection, Department of Health*



09:05

Responsible Use of Artificial Intelligence for Infectious Disease Surveillance

Dr Calvin HO, JSD FRSPH

*Associate Professor, Faculty of Law, Monash University,
Melbourne*

09:50

Smart solution for Infectious Diseases Management

Dr Anna TONG

Chief Manager (eHealth), Hospital Authority



10:35

Discussion Session

10:50

Break

Session 2

Artificial intelligence in infection surveillance

Moderator

Dr Owen TSANG

*Consultant (Medicine & Geriatrics), Princess Margaret
Hospital/ Medical Director, Infectious Disease Centre,
Hospital Authority*



11:00

Forecast epidemics more effectively with Artificial Intelligence

Dr Zhanwei DU

*Research Assistant Professor (Programme 3)/ Research
Assistant Professor, Division of Epidemiology and
Biostatistics, School of Public Health, The University of
Hong Kong*

11:45

Can we use automated analyses of electronic health record data to improve surveillance for healthcare-associated infections?

Prof Michael KLOMPAS, MD

*Professor of Population Medicine, Harvard Medical School/
Hospital Epidemiologist, Brigham and Women's Hospital,
Boston, USA*



12:30

Discussion Session

12:45

Lunch

14:00

Application of Artificial Intelligence and IT in Antibiotics Stewardship



Dr May LEE

*Consultant, Department of Microbiology, Princess
Margaret Hospital*

14:45

A deep learning approach to antibiotic discovery



Dr James J. COLLINS, PhD

*Termeer Professor of Medical Engineering & Science at
The Collins Lab and Professor of Biological Engineering at
MIT, USA/ Core Founding Faculty member of the Wyss
Institute for Biologically Inspired Engineering at Harvard
University, USA*

15:30

Discussion Session

15:45

Break

Session 4

Artificial intelligence in predicting emerging infections and advancing laboratory diagnostics

Moderator

Dr Raymond LAI

*Chief Infection Control Officer, Chief Infection Control
Officer Office, Hospital Authority Head Office*

16:00

Artificial Intelligence-metagenomic Platform to Identify Emerging Pathogens



Professor Yi GUAN

*Daniel CK Yu Professor in Virology/ Chair Professor of
Emerging Viral Diseases/ Cluster Leader (Influenza and
Infections of Public Health Significance) at Division of
Public Health Laboratory Sciences, School of Public Health,
LKS Faculty of Medicine, The University of Hong Kong*

16:45

Machine, machine on the wall, who's the most resistant of them all?



Dr Alfred LEE

*Associate Consultant, Department of Microbiology,
Prince of Wales Hospital*

17:30

Discussion Session



醫院管理局
HOSPITAL
AUTHORITY

Infectious Disease Control
Training Centre
傳染病控制培訓中心

Co-organised by Infectious Disease Control Training Centre, Hospital Authority (HA IDCTC)/
Infection Control Branch (ICB), Centre for Health Protection (CHP), Department of Health and
Chief Infection Control Officer Office, Hospital Authority

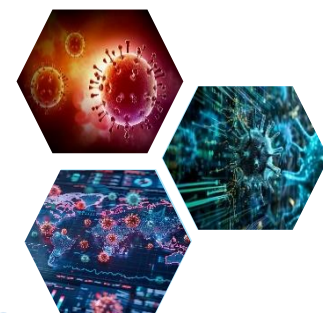


衛生防護中心
Centre for Health Protection

Infection Control Branch
感染控制處



Seminar on Application of Artificial Intelligence (AI) on Infectious Diseases and Infection Control on 13 November 2024



<p>Objectives</p>	<p>The seminar aims at addressing potential application on the use of artificial intelligence (AI) in the field of infectious diseases and infection control, and would focus on the following aspects:</p> <ul style="list-style-type: none"> • Overview of artificial intelligence applications in healthcare • AI in infection surveillance • AI in optimizing antibiotic use and discovery of novel antibiotics • AI in predicting emerging infections and advancing laboratory diagnostic
<p>Target Audience</p>	<p>Healthcare professionals in Hospital Authority, Department of Health and private settings</p>
<p>Mode</p>	<p>Hybrid mode (Physical & Webinar) Host Venue: Lecture Theatre, G/F, Centre for Health Protection, 147C Argyle Street, Kowloon</p>
<p>CME/ CNE/ CPD</p>	<p>CME/CNE/CPD points would only be granted to the pre-registered participants who access the forum by the unique webinar link provided upon successful enrolment</p>
<p>Composition of Organising Committee</p>	<p>Dr Joanna PANG <i>Chief Medical Informatics Officer, Information Technology and Health Informatics, Hospital Authority Head Office</i></p> <p>Dr Owen TSANG <i>Consultant (Medicine & Geriatrics), Princess Margaret Hospital/ Medical Director, Infectious Disease Centre, Hospital Authority</i></p> <p>Dr Hong CHEN <i>Consultant-in-charge, Infectious Disease Control Training Centre, Hospital Authority/ Head, Infection Control Branch, Centre for Health Protection, Department of Health</i></p> <p>Dr Leo LUI <i>Associate Consultant, Infectious Disease Control Training Centre, Hospital Authority/ Infection Control Branch, Centre for Health Protection, Department of Health</i></p> <p>Ms Man Ying KONG <i>Senior Nursing Officer, Chief Infection Control Officer Office, Hospital Authority</i></p> <p>Mr Anthony NG <i>Senior Nursing Officer, Infectious Disease Control Training Centre, Hospital Authority/ Infection Control Branch, Centre for Health Protection, Department of Health</i></p>
<p>Enquiries</p>	<p>Miss Kristy WONG 2125 2916 Miss Queenie LAW 2125 2933</p>
<p>Application Channel</p>	<p>Enrollment via</p> <ul style="list-style-type: none"> • Cluster Training Coordinator (for HA staff) • Service Coordinator (for DH staff) • ICO/ICN/HR staff (for Private Hospital staff)