

DIRECTOR'S BIO (CLINICAL & SCIENTIFIC)

Dr Ng Chau Hsien Matthew, Director (Clinical & Scientific) of Investigational Medicine Unit, SingHealth and Senior Consultant, Division of Medical Oncology, National Cancer Centre Singapore (NCCS).

Dr. Ng is a medical oncologist sub-specialising in GI cancers and new cancer drug development. He was trained in the UK at the Royal Marsden Hospital and obtained a PhD from the Institute of Cancer Research (London) in pharmacology working on alpha-folate receptor-targeted therapy. Currently he is the oncology lead for upper GI cancers. His research interest is in developing novel therapeutic strategies for patients particularly in gastrointestinal cancers.

DEPUTY DIRECTOR'S BIO (CLINICAL & SCIENTIFIC)

Dr Low Guek Hong Jenny, Deputy Director (Clinical & Scientific) of Investigational Medicine Unit, SingHealth and Senior Consultant, Department of Infectious Diseases, Singapore General Hospital and Associate Professor, Programme in Emerging Infectious Diseases, Duke-NUS Medical School

Dr. Low led the Early Dengue Infection and Outcome study (EDEN) and was the lead clinical investigator in the first proof-of-concept clinical trial on the use of Celgosivir as an anti-dengue drug (CELADEN) in Singapore. Her research focus is on early phase clinical trials of viral therapeutics and vaccine development and the role of the innate immune response in modulating the outcome of infection or vaccination.

SingHealth Investigational Medicine Unit (IMU)

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CORE PLATFORM





BACKGROUND

SingHealth Investigational Medicine Unit (IMU) is an early phase clinical research unit, which supports the research of commercial partners and investigators. The unit is located at Block 7, Level 7 of Singapore General Hospital (SGH) and provides services to facilitate:

- Proof of concept, 'first-in-man' or early stages of clinical development of investigational drugs, vaccines and devices
- Identification and validation of novel disease biomarkers
- Pharmacokinetics and pharmacodynamics studies
- Healthy volunteer and patient trials
- Insulin clamp trials
- Microdosing trials
- Single Ascending Dose, Multiple Ascending Dose (SAD, MAD) trials

We have ready access to various research services, including:

- PET, CT and MRI facilities
- Nuclear medicine
- Investigational and chemotherapy pharmacy services
- CAP-certified pathology laboratories

We champion medical research practice and methodology to train doctors, pharmacists, nurses, coordinators and technologists in clinical trial management.

KEY OBJECTIVES

- Defining the future of medicine through the conduct of early phase clinical research
- Translating innovations into improved patient care
- Educating and training researchers in early phase clinical trial research ethics and methodology
- Developing thought leadership through research innovations

CORE STRENGTHS

We specialise in early phase clinical research. Our projects are supported by a team of dedicated and well-trained Clinical Research Coordinators, Clinical Research Nurses and Resident Physicians. The unit specialises in studying diseases that impact patients in Asia, and focuses on:



ONCOLOGY



CARDIOLOGY



GASTROENTEROLOGY



HAEMATOLOGY



EMERGING INFECTIOUS DISEASES

CORE SERVICES

- Case Report Form (CRF) design
- Specimen collection, handling, processing and shipping
- Coordination with external central laboratories
- Project management of trials
- Conducting trials that adhere to ICH-Good Clinical Practice, supported by a robust healthy volunteer database
- Internal Quality Assurance (QA) system
- Clinical pharmacology and pharmacogenetic sample collection

FACILITIES

- Thirty beds
- Two consultation rooms
- Dedicated subject recruitment and screening rooms
- Two-bed chronobiology suite, managed by Duke-NUS Medical School
- 24/7 CCTV
- Storage space for IP
- Sample processing room
- 2-8°C, -30°C and -80°C refrigerators with 24/7 electronic temperature logs linked to a central alarm system
- Real-time ECG
- Temperature-controlled centrifuges