



**31ST SINGAPORE
PHARMACY
CONGRESS**

PROGRAMME E-BOOKLET

**EMERGING HEALTHCARE
IN A BRAVE NEW WORLD!**

23-24 JULY 2022



pharmacycongress.org.sg



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PSS

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Welcome Message from PSS President

Dr Vivianne Shih

President, 116th Council
Pharmaceutical Society of Singapore

“ After battling COVID-19 for the past 2 years, I am excited that we can finally meet fellow healthcare colleagues in person to exchange best practices, network and learn from each other. ”

Dear Colleagues & Friends,

I am delighted to welcome you to the 31st Singapore Pharmacy Congress, our very first hybrid congress. After battling COVID-19 for the past 2 years, I am excited that we can finally meet fellow healthcare colleagues in person to exchange best practices, network and learn from each other.

During the pandemic, the pharmacy fraternity was faced with numerous challenges. We came together as a profession to re-evaluate our processes and embrace innovation, to emerge stronger and better. Hence we celebrate our profession’s journey over the past 2 years through this year’s theme “Emerging Healthcare in a Brave New World!” that signifies how we need to continuously reinvent to stay relevant.

The 2-day programme was crafted to ensure that there will be something for everyone. Besides learning about value-based healthcare & transformation, how we can reinvent for the new normal and the importance of leadership, we also need to learn and build resilience and to inculcate joy in the work that we do. As with past congresses, there is also a dedicated track for our pharmacy technicians and do look forward to the panel discussion on their role expansion.

On behalf of PSS council, I would like to express my sincere gratitude to our Guest-of-Honour, Dr Janil Puthuchery, Senior Minister of State, Ministry of Communications & Information and Ministry of Health for taking time off his busy schedule to grace our event. I am also immensely grateful to our esteemed speakers, distinguished guests and to our generous sponsors for their support. A big thank you to each and every member of the organising committee, both the Congress and PSS Secretariat who have worked tirelessly over the past few months. The 31st Singapore Pharmacy Congress would not have been possible without everyone’s dedication and perseverance, to deliver an enriching programme for pharmacists and pharmacy technicians.

Last but not least, to all delegates, thank you for being a part of this congress. I trust that you will enjoy the programme, find time to network and bond with fellow pharmacists and friends over this weekend with us.

Welcome Message from 31st SPC 2022 Co-Chairpersons



Ms Ng Wan Xin Yvonne

Organising Co-Chairperson
31st Singapore Pharmacy Congress (SPC)



Ms Vivian Chin Hui Min

Organising Co-Chairperson
31st Singapore Pharmacy Congress (SPC)

It is our great pleasure to welcome you to the 31st Singapore Pharmacy Congress (SPC) – the first ever hybrid congress organised by the Pharmaceutical Society of Singapore (PSS).

Although we had original plans to hold a full physical congress after coming to three years of COVID-19 pandemic, it was eventually decided to be a hybrid congress due to the uncertainties involving safe management measures and MICE events limitations in Singapore. Nevertheless, we are delighted to provide a platform for delegates from various sectors to convene at our hybrid congress and interact both physically and virtually.

Despite this new hybrid arrangement, our Organising Committee is committed to deliver a fulfilling and enriching congress experience for all our delegates physically on-site, as well as through our virtual platform.

Our 31st SPC’s Theme – “Emerging Healthcare in a Brave New World!” aims to focus on the profound changes which have occurred in Singapore’s healthcare system in recent years. Some changes have been fuelled by the COVID-19 pandemic, while others are driven by technology, scientific advances, and consumer demands. Challenges surface in addressing the issues of access, quality, and costs, but as Albert Einstein said, “In the middle of difficulty lies opportunity”. As such, it is timely that we capitalise on these opportunities for the pharmacy profession to advance healthcare. As we welcome a brave new world, we strive to build a more resilient pharmacy community which is flexible and able to adapt to emerging needs.

On behalf of the 31st SPC Organising Committee and the PSS, we thank you for participating in this inaugural hybrid congress and we hope that you will have a great time here with us!

31st SPC 2022 Organising Committee

CHAIRPERSONS



Ms Ng Wan Xin Yvonne
Co-Chairperson



Ms Vivian Chin Hui Min
Co-Chairperson

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Dr Constance Neo
Xue Rui
Scientific Chairperson



Mr Lim Teong Guan
Abstracts Chairperson

Members

- Ms Abigail Tan Ming Li
- Ms Azrina Imran Tan
- Ms Cheryl Neoh Chia Chin
- Dr Fiona Yeo Hui Ing
- Dr Han Zhe
- Dr Jennifer Ng Kim Yoke
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- Mr Ooi Kit Siang
- Ms Png Wan Yu
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- Ms Trevina Lee Li Xuan

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Mr Puah Yong Kin
Chairperson

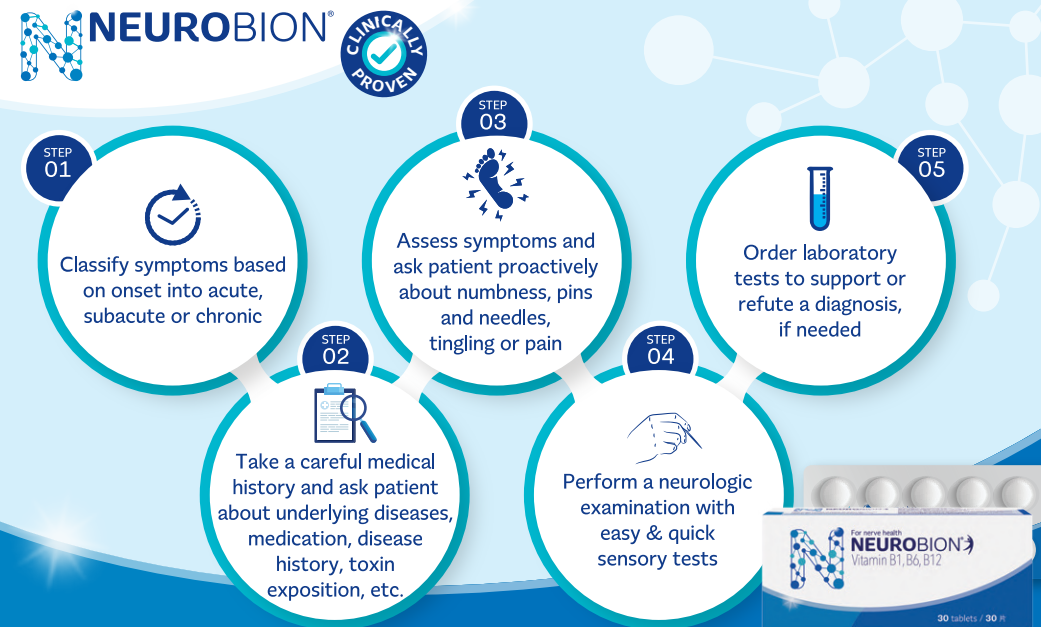
Members

- Mr Ian Tan Sheng Feng
- Ms Poh Kar Men
- Mr Tan Wei Xun

Opening Performance

The opening performance for the 31st Singapore Pharmacy Congress is choreographed by Alex Lim. Born and based in Singapore, he started dancing professionally at the age of 17. As a firm believer of being one's best authentic self, he found movements unadulteratedly honest and true to his heart. He continues to explore the infinite possibilities of where this path leads, and will move where his heart goes.

This dance performance item is inspired from the congress theme, "Emerging Healthcare in a Brave New World", choreographed to bring both joy and a sense of nostalgia with the world opening up. In these trying times with still many uncertainties, this dance signifies the hope and strength of a better tomorrow. Through adaptability and leadership, we will make A Million Dreams come true.



Pre-Congress Workshops Programme Overview

Date & Time	Topic
<p>18 July 2022 (Monday)</p> <p>19:00-21:00</p>	<p>Workshop 1: Health Literacy Interventions to Improve Health Outcomes</p> <p>Ms Lee Poh Ling (Senior Pharmacist, National Healthcare Group Pharmacy)</p> <p>Ms Low Suat Fern (Principal Pharmacist, Yishun Community Hospital)</p> <p>Ms Sandra Xu (Senior Pharmacist (Clinical), National Healthcare Group Pharmacy)</p> <p>Ms Tang Xue Li (Pharmacist, Institute of Mental Health)</p>
<p>19 July 2022 (Tuesday)</p> <p>19:00-21:00</p>	<p>Workshop 2: Evidence-Based Medicine (EBM) – Critical Appraisal for Patient Care</p> <p>Dr Wang Aiwen (Senior Principal Clinical Pharmacist, Singapore General Hospital)</p> <p>Dr Yeo Yan Ting (Principal Clinical Pharmacist, Singapore General Hospital)</p> <p>Ms Tracy Zhang Yanxin (Senior Pharmacist, Woodlands Health)</p>

Pre-Congress Workshops Programme Overview

Date & Time	Topic
<p>20 July 2022 (Wednesday)</p> <p>19:00-21:00</p>	<p>Workshop 3: Disease or Lifestyle? – Opportunities for Interventions (Sponsored by Johnson & Johnson Consumer Health)</p> <p>Ms Susan Tan (Certified Quit Smoking Consultant & Trainer)</p> <p>Dr Nishant Garodia (Asia Pacific Medical Affairs Manager, Consumer Health, Johnson & Johnson)</p> <p>Dr Ashita Bhatia (Oral Care Scientist, Asia Pacific R&D, Johnson & Johnson)</p> <p>Dr Orawan Suitthimeathegorn (Medical Affairs Manager, Asia Pacific Skin Health, Johnson & Johnson)</p>
<p>21 July 2022 (Thursday)</p> <p>19:00-21:00</p>	<p>Workshop 4: Introduction to Vericiguat State-of-the-Art Therapies in Worsening Heart Failure with Reduced Ejection Fraction (HFrEF): End-of-the-Road or New Hope? (Sponsored by Bayer (South East Asia))</p> <p>Asst Prof Raymond Wong (Senior Consultant, Department of Cardiology, National University Heart Centre)</p> <p>Dr Dinna Soon (Senior Consultant Cardiologist, Lead, Heart Failure Service, Khoo Teck Puat Hospital)</p>
<p>22 July 2022 (Friday)</p> <p>19:00-21:00</p>	<p>Workshop 5: Introduction to Finerenone Practical Use in Clinical Management of Chronic Kidney Disease (CKD) for Patients with Type II Diabetes (T2D) (Sponsored by Bayer (South East Asia))</p> <p>A/Prof Goh Su-Yen (Senior Consultant, Endocrinology, Singapore General Hospital)</p> <p>Adj Asst Prof Yeo See Cheng (Head of Department & Senior Consultant, Department of Renal Medicine, Tan Tock Seng Hospital)</p>

Day 1: 23 July 2022 (Saturday)
Programme Overview

Time	Programme
From 07:30	Registration
08:30-09:15	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>Breakout Lecture: (Room 331) Making Pharmacogenetic Testing Commonplace (Sponsored by Thermo Fisher)</p> <p>Dr Goh Lih Ling (Senior Principal Scientific Officer, Personalised Medicine Services, Tan Tock Seng Hospital)</p> <p>Dr Carol Tham (Senior Consultant, Department of Neurology, National Neuroscience Institute)</p> <p>Dr See Toh Wei Yann (Senior Pharmacist (Clinical), Tan Tock Seng Hospital)</p> </div> <div style="width: 48%;"> <p>Breakout Lecture: (Room 335-336) Serenading the Era of Cardiovascular Disease Prevention: SiRNA-ing LDL to Target (Sponsored by Novartis)</p> <p>A/Prof Tan Ru San (Senior Consultant, Department of Cardiology, National Heart Centre Singapore)</p> </div> </div>
09:15-10:00	Tea Break & Poster Viewing
10:00-11:00	<p>Opening & Award Ceremonies (Summit I) <i>*Delegates are to be seated by 09:45.</i></p> <p>Guest of Honour: Dr Janil Puthucheary (Senior Minister of State, Ministry of Communications and Information & Ministry of Health)</p>
11:00-12:00	<p>Keynote Lecture: (Summit I) Value-Based Healthcare/Transformation</p> <p>Dr Prem Kumar Nair (Chief Executive Officer, IHH Healthcare Singapore)</p>
12:00-12:30	Lunch break

Day 1: 23 July 2022 (Saturday)
Programme Overview

Time	Programme		
12:30-13:30	<p>Lunch Symposium: (Summit 1) Probiotics in the Management of Irritable Bowel Syndrome (Sponsored by DCH Auriga)</p> <p>Dr Wang Yu Tien (Senior Consultant, Gastroenterology and Hepatology, Nobel Gastroenterology Centre Gleneagles Medical Centre)</p>		
13:30-15:00	<p>Track 1: Evolution (Summit 1)</p>	<p>Track 2: Transformation (Room 331)</p>	<p>Track 3: Pharmacy Technician (PT) Symposium (13:45-17:00) (Room 335-336)</p>
	<p>Rapid Diagnostics and the Evolution of Antibiotic Stewardship A/Prof Christine Teng (Associate Professor, Department of Pharmacy, National University of Singapore)</p>	<p>Bot MD: Innovation That Delights Ms Dorothea Koh (Chief Executive Officer & Founder, Bot MD)</p>	<p>Registration (13:45-14:30)</p>
	<p>Low Clearance Clinic Dr Sim Mui Hian (Principal Clinical Pharmacist, Singapore General Hospital)</p>	<p>Digital Transformation: Cardiac Rehabilitation Anytime Anywhere with Heart Track Mr Rethinam Ganesan (Senior Physiotherapist, Tan Tock Seng Hospital)</p>	<p>Towards a Flourishing Pharmacy Community Ms Carolyn Ho (Senior Manager, Chief Pharmacist's Office, Ministry of Health)</p>
	<p>EDIFY: Mitigating ED Admissions Amongst Elders Ms Selina Cheong (Senior Pharmacist (Clinical), Tan Tock Seng Hospital)</p>	<p>Design for Healthcare Mr Low Cheaw Hwei (Head of Design, Philips ASEAN Pacific and Design Consulting, Asia, Philips Electronic Singapore Pte Ltd)</p>	
	<p>Q&A Session</p>	<p>Q&A Session</p>	

Day 1: 23 July 2022 (Saturday)
Programme Overview

Time	Programme		
15:00-15:45	Presentation of Outstanding Abstracts <i>(Summit 1)</i>	Breakout Lecture: <i>(Room 331)</i> What's In and Out of Acne Management? (Sponsored by Galderma) A/Prof Mark Koh (Head of Department & Senior Consultant, Department of Dermatology, KK Women's and Children's Hospital)	Track 3: Pharmacy Technician (PT) Symposium (13:45-17:00) <i>(Room 335-336)</i>
		Panel Discussion	
		Break (15:30-15:45)	
15:45-17:00	Plenary Lecture 1: <i>(Summit 1)</i> Chief Pharmacist's Address – Riding on the Forces for Change Dr Camilla Wong (Chief Pharmacist, Chief Pharmacist's Office, Ministry of Health)	PT Best Abstract Presentation	
		Expansion of the Pharmacy Technician's Role: The Future of Work Ms Denise Yang (Senior Pharmacy Technician, Tan Tock Seng Hospital) Ms Jocelyn Diamantha (Pharmacy Technician, Khoo Teck Puat Hospital) Mr Izwan Hosni (Senior Pharmacy Technician, KK Women's and Children's Hospital) Ms Ashwini Suppaiyah (Pharmacy Technician, Sengkang General Hospital)	
		Panel Discussion	

Day 1: 23 July 2022 (Saturday)
Programme Overview

Time	Programme
17:00-18:00	<p style="text-align: center;">Evening Symposium: (Summit 1) Managing Cancer Patients in the Current COVID-19 Pandemic (Sponsored by Bristol Myers Squibb) Clin Asst Prof Lee Jie Xin Joycelyn (Consultant, Division of Medical Oncology, National Cancer Centre Singapore)</p>
18:30-22:30	<p style="text-align: center;">Social Night Venue: TAP Craft Beer Bar @ Millenia Walk Address: 9 Raffles Blvd, #01-06/07/08, Singapore 039596 <i>Free flow food and drinks will be provided.</i></p> <p style="text-align: center;"><i>*Only for delegates who have registered for Social Night</i></p>

Day 2: 24 July 2022 (Sunday)
Programme Overview

Time	Programme
From 07:30	Registration
08:30-09:30	Plenary Lecture 2: (Summit 1) Reinvention for the New Normal
	Plenary Session 2.1: Leadership: Thinking Differently A/Prof Audrey Chia (Associate Professor, NUS Business School & Yong Loo Lin School of Medicine, National University of Singapore)
	Plenary Session 2.2: Learning From Other Industries Dr Colin Tan (Chief Medical Officer, Singapore Civil Defence Force)
	Panel Discussion / Q&A
09:30-10:30	Morning Symposium: (Summit 1) Updates on COVID-19 Therapeutic Options Dr Shawn Vasoo (Clinical Director & Senior Consultant, National Centre for Infectious Diseases)
10:30-11:15	Tea Break & Poster Viewing

Day 2: 24 July 2022 (Sunday)
Programme Overview

Time	Programme		
11:15-12:45	Track 4: Precision <i>(Summit 1)</i>	Track 5: Innovation <i>(Room 331)</i>	Track 6: Governance <i>(Room 335-336)</i>
	<p>Transforming Health in Singapore through Precision Medicine</p> <p>Prof Patrick Tan (Executive Director, Precision Health Research Singapore (PRECISE))</p>	<p>Igniting the Creative Spark to Drive What Matters in Practice Innovation</p> <p>Ms Lynette Ong (Director, Transformation, Tan Tock Seng Hospital)</p>	<p>EXPEDITE: The Pandemic Special Access Route (PSAR)</p> <p>Dr Looi Yee Hoo (Deputy Director, Therapeutic Products Branch, Health Sciences Authority)</p>
	<p>QPOP: An AI-Application Towards Personalised Cancer Treatment</p> <p>A/Prof Edward Chow (Associate Professor, Cancer Science Institute of Singapore, National University of Singapore)</p>	<p>Supply Chain Resiliency Amidst COVID-19 Pandemic</p> <p>Ms Tan Yan Ann (Managing Director, Zuellig Pharma Pte Ltd)</p>	<p>Product Defect Surveillance through Web Crawling and Machine Learning, and Management of Issues Relating to Substandard Medicines</p> <p>Mr Desmond Teo (Data Analyst, Vigilance and Compliance Branch, Health Sciences Authority)</p> <p>Mr Choong Chih Tzer (Senior Regulatory Specialist, Vigilance and Compliance Branch, Health Sciences Authority)</p>

Day 2: 24 July 2022 (Sunday)
Programme Overview

Time	Programme		
11:15-12:45	Track 4: Precision <i>(Summit 1)</i>	Track 5: Innovation <i>(Room 331)</i>	Track 6: Governance <i>(Room 335-336)</i>
	Pharmacogenomics in Neurology – A Pharmacist’s Perspective Dr Wong Pei Shieen (Senior Principal Clinical Pharmacist, Singapore General Hospital)	The Use of Robotics and Technology in the Setting Up of a GMP-Ready Aseptic Compounding Facility Mr Peter Yap (Pharmacy Practice Manager, National Cancer Centre Singapore)	Medico-legal Dilemmas in Tele-medicine Ms Elaine Teo (Director, Aged and Ancillary Service Regulations and Transformation, Ministry of Health)
	Q&A Session	Q&A Session	Q&A Session
12:45-13:15	Lunch Break		
13:15-14:15	Lunch Symposium: <i>(Summit 1)</i> Deep Dive on Peripheral Neuropathy <i>(Sponsored by Procter & Gamble)</i>		
14:15-15:45	Plenary Lecture 3: <i>(Summit 1)</i> Resilience and Recovery		
	Plenary Session 3.1: The Art of Becoming Resilient Dr Huang Wanping (Head, Principal Psychologist, Tan Tock Seng Hospital)		

Day 2: 24 July 2022 (Sunday)
Programme Overview

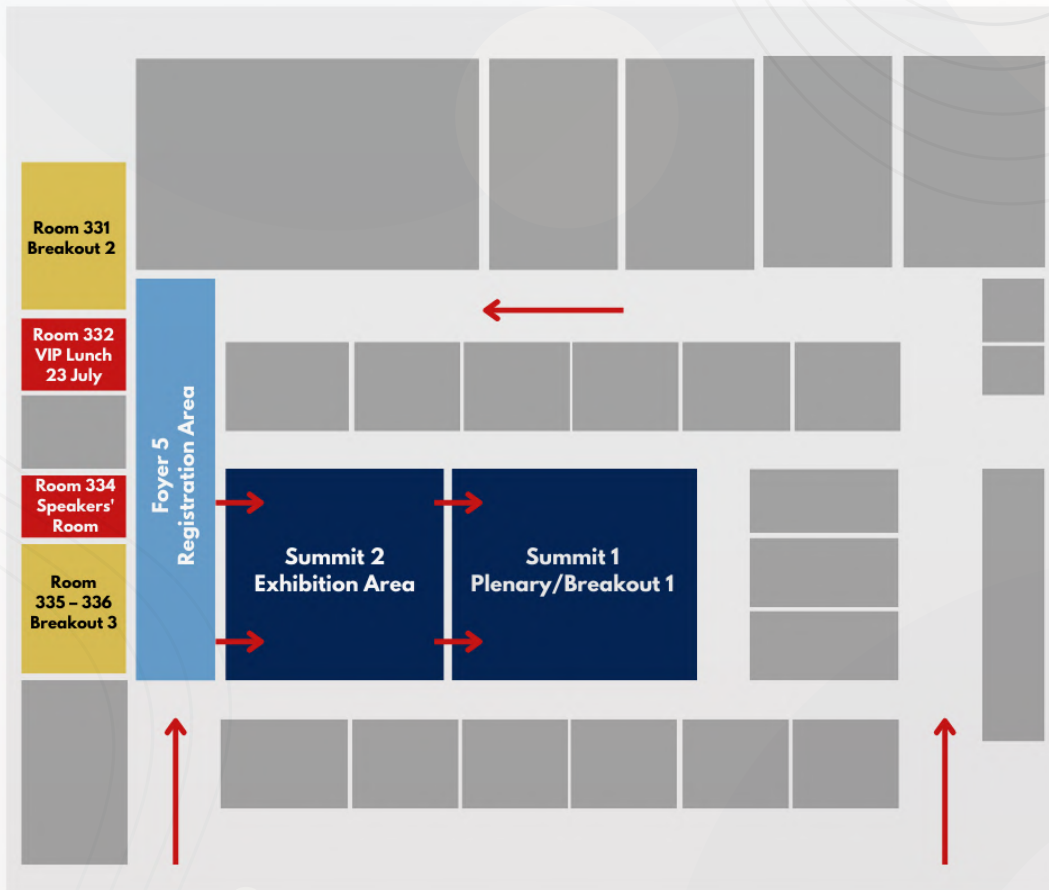
Time	Programme		
14:15-15:45	Plenary Session 3.2: The Disappearing Commute Ms Soon Jiaying (Senior Clinical Psychologist, Resilienz)		
	Plenary Session 3.3: Joy in Work Prof Chua Hong Choon (Chief Executive Officer, Khoo Teck Puat Hospital & Yishun Health)		
	Panel Discussion / Q&A		
15:45-16:30	Award Presentation for Outstanding Posters and Abstracts <i>(Summit 1)</i>	Tea Break & Poster Viewing	
16:30-18:00	Track 7: Advancement <i>(Summit 1)</i>	Track 8: Activation <i>(Room 331)</i>	Track 9: Scholarship <i>(Room 335-336)</i>
	Technology Enablement in Singapore's Pharmacy Services: A New Frontier Dr Goh Cheong Hian (Deputy Director, Audit & Licensing Division, Health Sciences Authority)	The ESTHER Network – What is Best for Esther (Patient)? Dr Khee Giat Yeng (Senior Principal Clinical Pharmacist, Singapore General Hospital)	PECT-ing and Unpacking the Pharmacy Undergraduates' Experiential Training for the Brave New World A/Prof Doreen Tan (Associate Professor, Department of Pharmacy, National University of Singapore)

Day 2: 24 July 2022 (Sunday)
Programme Overview

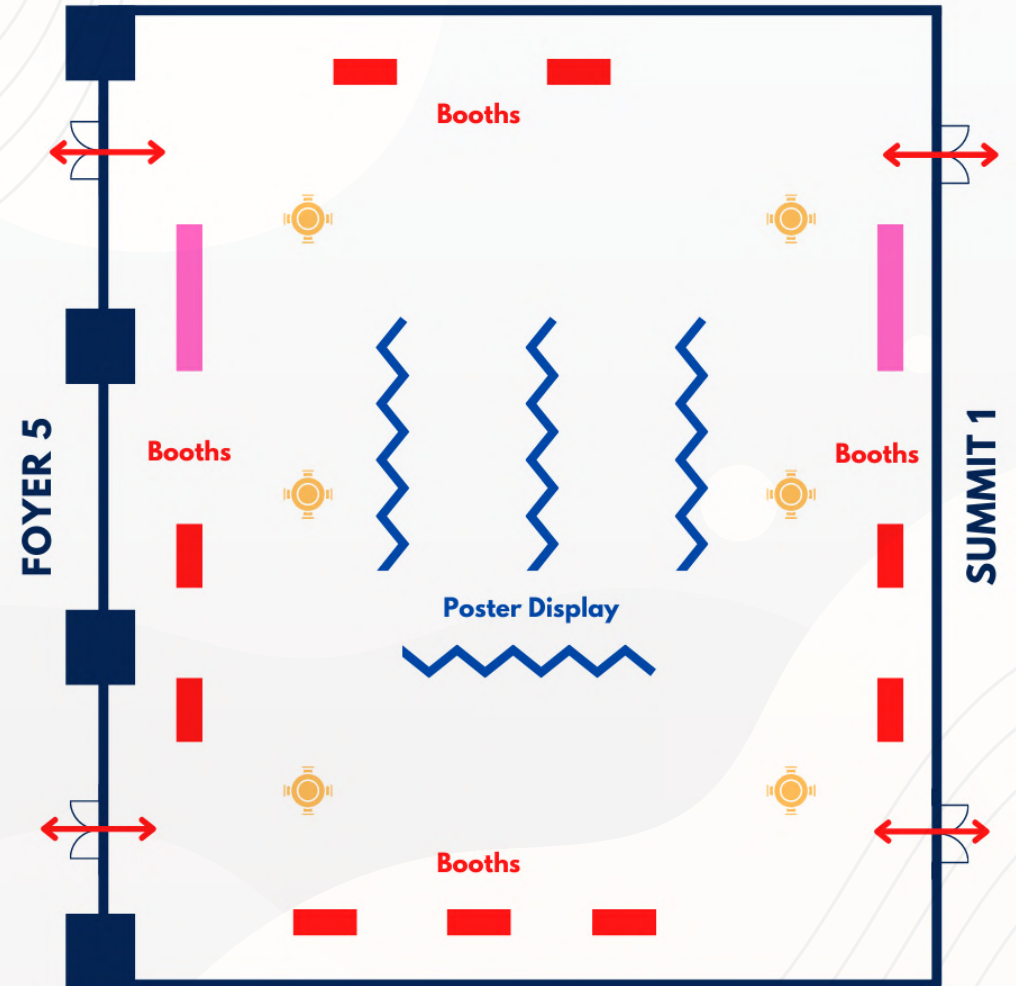
Time	Programme		
16:30-18:00	Track 7: Advancement <i>(Summit 1)</i>	Track 8: Activation <i>(Room 331)</i>	Track 9: Scholarship <i>(Room 335-336)</i>
	<p>Singapore's 1st E-Pharmacy: WellAway</p> <p>Mr Marshall Liu (Associate Manager, WellAway E-Pharmacy)</p>	<p>The PROMise of Person-Centred Care</p> <p>Dr Soh Huimin (Senior Pharmacist (Clinical), Tan Tock Seng Hospital)</p>	<p>A Path Less Travelled: Narratives from Data-Analytics, Pharmacoeconomics, and Health Preference Research</p> <p>Dr Tan Eng Hooi (Postdoctoral Research Assistant, Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences, University of Oxford)</p> <p>Dr Michelle Lim (Associate Director, Clinical Program Operations, Exploratory Medicine and Pharmacology, Eli Lilly and Company)</p> <p>Dr Poon Jiat Ling (Director, Value, Evidence, and Outcomes, Eli Lilly and Company)</p>
	<p>Incorporating Technology into Community Pharmacy Services in the Time of COVID-19: A Hong Kong Perspective</p> <p>Mr Hubert Suen (Pharmaceutical Officer, ActiveCare Group)</p>	<p>Primary Care Services — A Case Study Implementing BPS Interventions</p> <p>Mr Choo Yan Cheng (Senior Pharmacist, Watson's Personal Care Stores)</p>	<p>Q&A Session</p>
	<p>Q&A Session</p>	<p>Q&A Session</p>	<p>Q&A Session</p>

Event Layout

Suntec Singapore - Level 3



Summit 2



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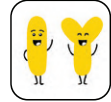
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regularity



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flavor-free



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not form into
a gel



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Pre-Congress Workshops Programme Synopses

WORKSHOP 1:

Health Literacy Interventions to Improve Health Outcomes

Ms Lee Poh Ling

Senior Pharmacist
National Healthcare Group
Pharmacy

Ms Low Suat Fern

Principal Pharmacist
Yishun Community Hospital

Ms Sandra Xu

Senior Pharmacist (Clinical)
National Healthcare Group
Pharmacy

Ms Tang Xue Li

Pharmacist
Institute of Mental Health

Synopsis

In this pre-congress workshop on Health Literacy, you will be introduced to why health literacy is an important topic each pharmacist must be familiar with, what the definition of health literacy is and how to equip ourselves with health literacy knowledge. You will also learn about the consequences of poor health literacy, its red flags and misconceptions, and the strategies to improve health literacy. Participants will be grouped into four breakout rooms. Each room will be given a unique case study and the discussion will be guided by a facilitator. We will also be sharing with you a study conducted by Duke-NUS and NUH with regard to making our future medication labels more health literate.

WORKSHOP 2:

Evidence-Based Medicine (EBM) – Critical Appraisal for Patient Care

Dr Wang Aiwen

Senior Principal Clinical
Pharmacist
Singapore General Hospital

Dr Yeo Yan Ting

Principal Clinical Pharmacist
Singapore General Hospital

Ms Tracy Zhang Yanxin

Senior Pharmacist
Woodlands Health

Synopsis

In this era of rapidly evolving evidence, it is pertinent that clinicians are well-versed in critical evaluation and appraisal of literature. In this workshop, participants will be integrating their prior pharmacotherapy and research methodology learnings by evaluation of some sample medical literature (e.g. randomised controlled trials, systematic reviews). Facilitators of the workshop will lead the discussion on nuances of such evaluations and strengthen the participant's fundamental knowledge and skills, so as to gain appropriate understanding of the results to promote evidence-based medicine (EBM) practices beyond p -value interpretation.

WORKSHOP 3:

Disease or Lifestyle? – Opportunities for Interventions
(Sponsored by Johnson & Johnson Consumer Health)

Ms Susan Tan

Certified Quit Smoking
Consultant & Trainer

Dr Nishant Garodia

Asia Pacific Medical Affairs
Manager
Consumer Health
Johnson & Johnson

Dr Ashita Bhatia

Oral Care Scientist
Asia Pacific R&D
Johnson & Johnson

Dr Orawan

Suithimeathegorn
Medical Affairs Manager
Asia Pacific Skin Health
Johnson & Johnson

Synopsis

Tobacco or substance use, oral health concerns and sensitive skin issues have increased dramatically during the COVID-19 pandemic due to lifestyle changes and stress. In this workshop, participants will discuss and be exposed to opportunities for pharmacist-led interventions towards improving the wellbeing of patients during their daily interactions.

WORKSHOP 4:

Introduction to Vericiguat
State-of-the-Art Therapies in Worsening Heart
Failure with Reduced Ejection Fraction (HFrEF):
End-of-the-Road or New Hope?
(Sponsored by Bayer (South East Asia))

Synopsis

HFrEF patients often encounter repeated worsening symptomatic events despite being on treatment recommended by the current available guidelines. This leads to increased hospital admissions and mortality, resulting in physical, financial and emotional burdens for them and their caregivers. This session will explore the challenges faced by healthcare professionals and patients in the management of worsening HFrEF. Verquvo (vericiguat), a novel soluble guanylate cyclase (sGC) stimulator, offers a stabilising force in protecting patients with HFrEF from future events. We will also look into patients' perspective on managing their heart failure condition.

Asst Prof Raymond Wong

Senior Consultant
Department of Cardiology
National University Heart
Centre

Dr Dinna Soon

Senior Consultant
Cardiologist
Lead, Heart Failure Service
Khoo Teck Puat Hospital

WORKSHOP 5:

Introduction to Finerenone Finerenone and Its Practical Use in Chronic Kidney Disease (CKD) for Patients with Type II Diabetes (T2D) (Sponsored by Bayer (South East Asia))

A/Prof Goh Su-Yen
Senior Consultant,
Endocrinology, Singapore
General Hospital

Adj Asst Prof Yeo See Cheng
Head of Department &
Senior Consultant
Department of Renal
Medicine
Tan Tock Seng Hospital

Synopsis

The risk of CKD progression and cardiovascular (CV) events remains high in patients with T2D and CKD despite having well-controlled blood glucose and blood pressure levels. The FIDELIO-DKD study evaluated Finerenone in addition to the standard of care in patients with CKD and T2D. Despite the current standard of care, the residual risk of CKD is still present, hence this new therapy brings hope to closing the gap in the treatment of CKD in patients with T2D. Finerenone, approved by HSA on 25th November 2021, is the first non-steroidal, selective mineralocorticoid receptor (MR) antagonist to demonstrate positive renal and cardiovascular outcomes in patients with CKD associated with T2D.

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is about providing quality patient care by placing the needs of patients first. At NHG Pharmacy, you'll discover a culture of teamwork, professionalism and mutual respect – and most importantly, a career that makes a difference.

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passion and achieve your
ultimate career goal!



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Being a learning organisation, you will be provided with **training for professional leadership, support for personal growth and clinical advancements.**



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Apart from being a member of the dynamic team, you will also enjoy the opportunity to **collaborate with different healthcare professionals** in the provision of clinical services.



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Being the first to pioneer the multi-dose medication packing system in Singapore and also with our adoption of Outpatient Automation Pharmacy System, you will **enjoy working** in an environment which **constantly innovates** to bring pharmacy services to the next level.



We value your opinion

At NHG Pharmacy, we recognise that each and every one of our employees' opinion matters. We **engage our staff** regularly through various platforms, so you can expect that we are always there to listen.

We are seeking patient-oriented pharmacists who want to make a difference in the lives of patients every day.

If you are a Pharmacist registered with the Singapore Pharmacy Council,
we welcome you to be part of our dynamic team!



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Alternatively, you may send or email a detailed resume
stating your current and expected salary to NHG Pharmacy
C/O National Healthcare Group, Human Resource Department.

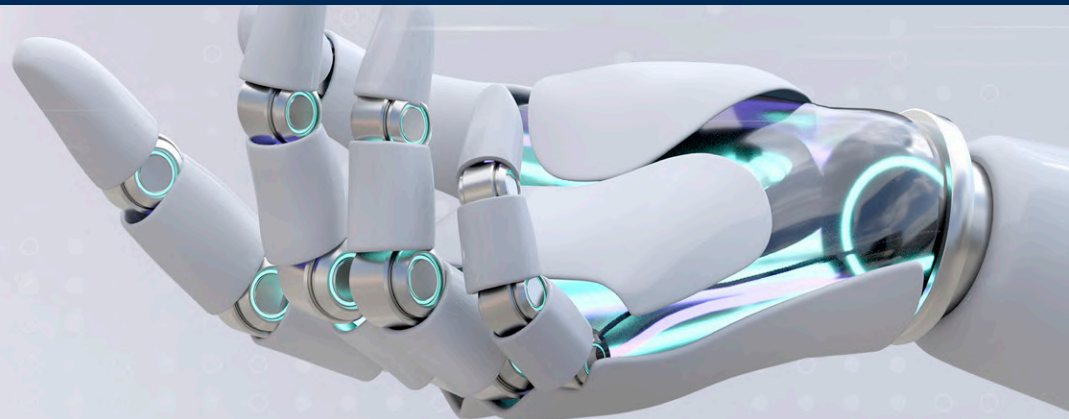
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Nexus@one-north
Singapore 138543

Email:
Wan_Qi_Teo@nhg.com.sg



Day 1

Programme Synopses



BREAKOUT LECTURE

Making Pharmacogenetic Testing Commonplace (Sponsored by Thermo Fisher)

Dr Goh Lih Ling
Senior Principal Scientific
Officer
Personalised Medicine
Services
Tan Tock Seng Hospital

Dr Carol Tham
Senior Consultant
Department of Neurology
National Neuroscience
Institute

Dr See Toh Wei Yann
Senior Pharmacist (Clinical)
Tan Tock Seng Hospital

Synopsis

Pharmacogenomics (PGx) is becoming established in many centres around the world and will become increasingly integral to the practice of Medicine as it allows for patient-centred risk-stratification of pharmacologic response and prediction of adverse drug events. In this session, we describe a highly collaborative implementation of PGx testing in a public healthcare institution.

BREAKOUT LECTURE

Serenading the Era of Cardiovascular Disease Prevention: SiRNA-ing LDL to Target (Sponsored by Novartis)

A/Prof Tan Ru San
Senior Consultant
Department of Cardiology
National Heart Centre
Singapore

Synopsis

This session aims to introduce small interfering RNA (SiRNA) as an option in the management of LDL-C lowering. The lecture takes the form of an interactive case study; with the audience polling to introduce the mechanism of action, its place in therapy, share efficacy and safety data; and the importance of achieving LDL-C targets in high-risk patients.

KEYNOTE LECTURE

Value-Based Healthcare/Transformation

Dr Prem Kumar Nair
Chief Executive Officer
IHH Healthcare Singapore

Synopsis

Value-based healthcare is about providing the best quality appropriate care to patients and reducing medical costs at the same time. It does not refer to a single care episode but to the overall wellness of people. The emphasis is on the quality of care given to patients, not the quantity.

As medications and therapies are integral to patient care, the role of the pharmacist in this area is a very important one. From patient education, physician partnering and involvement in the therapeutics committees to cost-effective procurement and supply chain efficiency, pharmacists are central to the concept of value-based healthcare.

LUNCH SYMPOSIUM

Probiotics in the Management of Irritable Bowel Syndrome (Sponsored by DCH Auriga)

Dr Wang Yu Tien
Senior Consultant
Gastroenterology and
Hepatology
Nobel Gastroenterology
Centre Gleneagles Medical
Centre

Synopsis

Irritable Bowel Syndrome (IBS) is a chronic functional gastrointestinal disorder which is associated with alterations in the Gut Microbiome. This results in bothersome abdominal discomfort and altered bowel habits. As there is evidence that probiotics are effective in managing IBS symptoms, we will review its clinical use in the management of IBS.

TRACK 1: EVOLUTION

Rapid Diagnostics and the Evolution of Antibiotic Stewardship

A/Prof Christine Teng
Associate Professor,
Department of Pharmacy,
National University of
Singapore

Synopsis

Rapid diagnostic tests (RDTs) can reduce the time to identification and/or susceptibilities of pathogens from days to mere hours. This talk will review how implementation of RDTs has enhanced appropriate use of antibiotics and improved patient outcomes especially when integrated with antibiotic stewardship programmes. Awareness of RDTs' benefits and limitations, along with assessment of institutional needs will be critical to ensure effective implementation and augmentation of antibiotic stewardship programmes.

Low Clearance Clinic

Dr Sim Mui Hian
Principal Clinical Pharmacist
Singapore General Hospital

Synopsis

Low Clearance Clinic started as a one-stop multidisciplinary clinic for patients with chronic kidney failure, primarily to facilitate timely renal replacement therapy planning on top of optimising their condition and management of any symptoms that they may have. In this clinic, besides the doctor's consult, the patient may also have consults with other healthcare professionals such as the pharmacist, nurse, dietician, medical social worker, and renal coordinator as needed. Through this talk, we will explore the transformation of Low Clearance Clinic, expanded roles of the pharmacist as a collaborative prescriber, key monitoring outcomes, challenges faced and opportunities ahead.

TRACK 1: EVOLUTION

EDIFY: Mitigating ED Admissions Amongst Elders

Ms Selina Cheong
Senior Pharmacist (Clinical)
Tan Tock Seng Hospital

Synopsis

“Front-door geriatrics” is the term coined for front-loading geriatric assessments and interventions right from the emergency department (ED), so as to meet the multidimensional needs of vulnerable older adults and reduce adverse outcomes. These measures are essential to the prompt management of frail older adults with complex needs. At Tan Tock Seng Hospital, we have successfully established the Emergency Department Interventions for Frailty (EDIFY) programme consisting of geriatric-trained healthcare professionals, with aims of minimising potentially avoidable admissions and delivering early integrated geriatric interventions at the ED. For this talk, we present a novel front-door transdisciplinary care model, describing the role of the geriatric clinical pharmacist beyond the usual scope of practice. Additional responsibilities include early assessment (performing history-taking and physical examination, ordering diagnostic tests) of patients with potential for discharge from the ED or transfer to lower-acuity care areas, as well as early escalation of ill cases to the geriatricians, when indicated.

TRACK 2: TRANSFORMATION

Innovation that Delights

Ms Dorothea Koh
Chief Executive Officer
and Founder
Bot MD

Synopsis

In Ms Dorothea Koh's presentation, she will share her experiences innovating digital health solutions for doctors and healthcare professionals around the world and her start-up's journey in developing Bot MD, an A.I. Assistant that integrates hospital content to provide instant answers to doctors' and patients' queries.

Since 2018, 18,000 healthcare professionals have used Bot MD globally, including 6,000 doctors and nurses in Singapore. During the COVID-19 pandemic, Bot MD was used to power consumer chat platforms to help doctors and nurses monitor over 4,000 COVID-19 patients in Singapore and Indonesia.

TRACK 2: TRANSFORMATION

Digital Transformation: Cardiac Rehabilitation Anytime Anywhere with Heart Track

Mr Rethinam Ganesan
Senior Physiotherapist
Tan Tock Seng Hospital

Synopsis

Cardiac rehabilitation is the gold standard physiotherapy management for patients who have undergone a percutaneous coronary intervention after myocardial infarction. However, the uptake rate of cardiac rehabilitation has remained low globally. There are several patient-related barriers, such as the inconvenience of traveling to the hospital for exercise and work commitments that affect uptake rates. Hence, to address these patient-related barriers, the Design Thinking Approach was adopted to invent Heart-Track™. Heart-Track™ is a novel cardiac rehabilitation digital system in which care is delivered via a mobile application for patients who had undergone post-percutaneous coronary intervention to complete their exercise rehabilitation at their own pace and convenience. In doing so, Heart-Track™ aims to provide better health, better care, and better lives to patients.

Design for Healthcare

Mr Low Cheaw Hwei
Head of Design
Philips ASEAN Pacific and
Design Consulting, Asia
Philips Electronic
Singapore Pte Ltd

Synopsis

Design as a creative problem-solving capability has been recently introduced into healthcare. From improving patient and staff experience to reimagining healthcare systems, design is rapidly being adopted as a driver and ally to healthcare innovation centred around the user.

So, what is the role of design in healthcare and how is it applied to address the complex healthcare problems we face?

TRACK 3: PHARMACY TECHNICIAN (PT) SYMPOSIUM

Towards a Flourishing Pharmacy Community

Ms Carolyn Ho
Senior Manager
Chief Pharmacist's Office
Ministry of Health

Synopsis

Beyond developmental frameworks and training programmes, networking opportunities for sharing of ideas and views are essential for the development of a future-ready pharmacy workforce. For pharmacy technicians, regular engagements through the Chief Pharmacist – Pharmacy Technician Leaders meeting platform gather leaders from various public healthcare institutions since October 2019. The aims are for leaders to: (i) plan the overall vision and strategy for pharmacy technicians, (ii) lead change by progressing initiatives to support the pharmacy workforce, and (iii) share best practices related to pharmacy and facilitate cross-learning. In 2021, the idea of forming a Community of Practice (CoP) for pharmacy technicians across institutions came to fruition through a collaboration with the Pharmaceutical Society of Singapore. The CoP would provide avenues for learning, sharing of best practices, and promoting recognition of the pharmacy support workforce. This presentation will provide updates and insights on national initiatives for the development of pharmacy technicians in Singapore.

Expansion of the Pharmacy Technician's Role: The Future of Work

Ms Denise Yang
Senior Pharmacy Technician
Tan Tock Seng Hospital

Synopsis

During the COVID-19 outbreak, the Tan Tock Seng Hospital (TTSH) Pharmacy experienced a rapid increase in the medication delivery workload. This presentation will detail how pharmacy technicians stepped up to support operations. It also highlights the teamwork between pharmacy technicians and pharmacists in delegating the workload to ground staff and in disseminating information on workflow changes to relevant personnel in different departments.

Ms Jocelyn Diamantha
Pharmacy Technician
Khoo Teck Puat Hospital

Synopsis

Being a Clinic Pharmacy Technician has been the best part of my professional journey as a Pharmacy Technician. Being at the different touch points of patient care has been a meaningful experience as it allowed me to provide patients with a deeper understanding of their condition, share the importance of the use of each medication and check compliance to their medications. The roles of a Clinic Pharmacy Technician include assisting Cardiac Pharmacists in clinic to ensure smooth patient flow, triaging patients by soliciting patients' chief complaints, asking standard monitoring questions, performing medication reconciliation, interviewing patients for their adherence rates, coaching patients and caregivers on home blood pressure, blood sugar, and weight monitoring; and how to recognise fluid overload symptoms. Additionally, Clinic Pharmacy Technicians also facilitate manpower planning and allocation of resources by tracking and reporting workload data so as to allow the pharmacists to schedule patients' next appointments with a peace of mind.

TRACK 3: PHARMACY TECHNICIAN (PT) SYMPOSIUM

Expansion of the Pharmacy Technician's Role: The Future of Work

Mr Izwan Hosni
Senior Pharmacy Technician
KK Women's and Children's
Hospital

Synopsis

2020 was an unprecedented year for the healthcare sector, battling COVID-19, an invisible enemy that the world had no knowledge of. Singapore went through various stages of lockdown and enforcement of safe management rules. Healthcare workers were challenged as frontliners in the battle. This presentation will describe the evolving roles of Pharmacy Technicians during the crisis, for example, dispensing drugs to foreign workers that were in dormitories for active COVID-19 cases, and converting under-utilised wards to ISO wards. It will also detail how the COVID-19 pandemic created opportunities to utilise limited resources well and paved the way for new initiatives such as telemedicine.

Ms Ashwini Suppaiyah
Pharmacy Technician
Sengkang General Hospital

Synopsis

This presentation will detail how a Pharmacy Technician adapted to new roles during the COVID-19 pandemic. From June to October 2021, Ms Ashwini Suppaiyah was assigned to work alongside doctors and nurses, dispensing medications to foreign workers in dormitories who reported feeling unwell. She will share about how she met the demands of the role by using tools like Google Translate, learning different languages, asking for help from mediators, improvising her drug labels with pictures and doing frequent inventory stock-take to ensure sufficient medications on hand. She will also share about her participation in the Pfizer Vaccine Dilution Project from January to May 2021. Ms Ashwini Suppaiyah had to equip herself with the right knowledge and techniques about dilution and handling injections in order to handle the demands of her role.

BREAKOUT LECTURE

What's In and Out of Acne Management? (Sponsored by Galderma)

A/Prof Mark Koh
Head of Department &
Senior Consultant
Department of Dermatology
KK Women's and Children's
Hospital

Synopsis

Pharmacists play a pivotal role in advising acne sufferers to adopt early and effective treatment. This inherently treats the current and new lesions, and also reduces the risk of acne scarring, which may affect up to 95% of acne patients. This lecture seeks to provide an update on the acne treatment guidelines, and to share the "ins and outs" in acne management.

PLENARY LECTURE 1: CHIEF PHARMACIST'S ADDRESS

Riding on the Forces for Change

Dr Camilla Wong
Chief Pharmacist
Chief Pharmacist's Office
Ministry of Health

Synopsis

Our environment is rapidly changing, and we need to evolve to keep up, but what does that mean? Internal and external drivers of healthcare accentuate the need for us to understand how our workforce needs to transform to deliver current and future healthcare models. What is the leadership that needs to see us through these forces for change that includes changing expectations of the younger generations, new therapies, pandemics, and the changing healthcare financing models, e.g. Healthier SG? What do we need to consider from a service delivery, manpower capability and workspace transformation perspective, using technology as an enabler? How do we better prepare our pharmacy workforce? An engaged workforce is one that finds meaning and purpose in what they do, with quality relationships as its cornerstone, increasing team spirit, mutual respect, and importantly, trust. With this, collective thinking can occur, allowing the pharmacy fraternity to forge onwards and change at a faster speed.

EVENING SYMPOSIUM

Managing Cancer Patients in the Current COVID-19 Pandemic (Sponsored by Bristol Myers Squibb)

**Clin Asst Prof
Lee Jie Xin Joycelyn**
Consultant
Division of Medical Oncology
National Cancer Centre
Singapore

Synopsis

In this session, we share insights on how to manage cancer patients with concomitant COVID-19 infections. We will discuss if patients on active cancer treatment have a predisposition to COVID-19 infections, weigh risk-benefits of persisting with Immune Checkpoint Inhibitor (ICI) therapy, educate on how to best time COVID-19 primary vaccination series and/or booster shots and discuss vaccine-related reactions. In so doing, we hope to synthesise the information towards holistic management of cancer patients in the community.

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At Woodlands Health, we are a tight-knit team working together to care for and improve the lives of our patients, community, and healthcare family. We are expanding our team, inviting those who are keen to join us in opening our Campus and services progressively from end 2023.

Pharmacist / Senior Pharmacists

Woodlands Health is seeking Pharmacists/Senior Pharmacists to join us on a full-time basis.

For the Senior Pharmacist role, we are also looking out for someone interested in the following areas of work:

- 1) Inpatient ICU (preferably with prior experience)
- 2) Hospital to Home
- 3) Ambulatory Care Clinics



bit.ly/3PTQHja

Pharmacy Technician / Senior Pharmacy Technician / Pharmacy Technician Executive

Woodlands Health is seeking Pharmacy Technicians to join us on a full-time basis.

For Senior Pharmacy Technician or Pharmacy Technician Executive, we are looking for someone who desires to:

- 1) Progress into supervisory roles in unit dose packaging area, outpatient and inpatient settings
- 2) Take up the medication safety lead



bit.ly/3t6EX3e

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SOCIAL NIGHT

2022

23 July, Saturday
6.30pm - 10.30pm

TAP Craft Beer Bar @ Millenia Walk





Day 2

Programme Synopses

PLENARY LECTURE 2: REINVENTION FOR THE NEW NORMAL

Leadership: Thinking Differently

A/Prof Audrey Chia
Associate Professor
NUS Business School and
Yong Loo Lin School of
Medicine
National University of
Singapore

Synopsis

One of the underrated roles of a leader is that of intellectual stimulation. In A/Prof Chia's research on social innovation in global health and medicine, she used case studies and systematic empirical analysis to examine how social innovators have solved complex or intractable problems. These social innovators thought differently about the problems and encouraged others to do the same. The socially innovative practices associated with thinking differently can be applied by leaders in any field, to better engage and activate the creativity of the people whom they lead.

PLENARY LECTURE 2: REINVENTION FOR THE NEW NORMAL

Learning From Other Industries

Dr Colin Tan
Chief Medical Officer
Singapore Civil Defence
Force

Synopsis

This presentation will cover how the SAF and the SCDF responded to the COVID-19 pandemic, both to maintain the operational readiness of the forces, and to support the national effort.

In particular, this presentation will share the unique setups of the uniformed organisations which well-position them to respond in such contingencies and illustrate with examples how these are integral to Singapore's overall response.

Lastly, this presentation introduces paramedics as an allied health profession, touching on their training and skillsets which define their irreplaceable role in the local healthcare system; and how they have and continue to contribute to the ongoing COVID-19 pandemic.

MORNING SYMPOSIUM

Updates on COVID-19 Therapeutic Options

Dr Shawn Vasoo
Clinical Director & Senior
Consultant
National Centre for
Infectious Diseases

Synopsis

The rapid development of therapeutic options from prevention to treatment against SARS-CoV-2 is exciting news but few of us understand what this means. How do we know if the drug is safe and effective? Will all patients be optimally protected from COVID-19? What are the considerations to be made before prescribing a drug?

Adjunct Assistant Professor Shawn Vasoo, Clinical Director at National Centre for Infectious Diseases (NCID) and Senior Consultant in the Department of Infectious Diseases at Tan Tock Seng Hospital, will provide his perspectives on the various therapeutic innovations, drawing from his extensive experience at the forefront against COVID-19.

TRACK 4: PRECISION

Transforming Health in Singapore through Precision Medicine

Prof Patrick Tan
Executive Director
Precision Health Research
Singapore (PRECISE)

Synopsis

Singapore, like many other countries, faces evolving healthcare demands driven by a rapidly ageing population and increased prevalence of chronic diseases. Precision Medicine (PM) is an innovative data-driven medical approach, where scientists and doctors take into consideration the patient's genetic background, lifestyle, and environmental factors to pre-empt the development of diseases, deliver accurate diagnosis and optimise treatments.

In Singapore, the National Precision Medicine (NPM) programme is a whole-of-government approach to explore how PM should be best deployed to transform healthcare, drive research and clinical innovation, propel growth and create value propositions to uplift the local biomed tech industry. Through NPM, we hope to preserve health and improve health outcomes through a data-driven medical approach to provide Singaporeans with the highest quality of life.

QPOP: An AI-Application Towards Personalised Cancer Treatment

A/Prof Edward Chow
Associate Professor
Cancer Science Institute of
Singapore
National University of
Singapore

Synopsis

Information not available

Pharmacogenomics in Neurology – A Pharmacist's Perspective

Dr Wong Pei Shieen
Senior Principal Clinical
Pharmacist
Singapore General Hospital

Synopsis

Pharmacogenomics, often viewed as the “low-hanging fruit” of genomics medicine, has made significant advances over the last decade. Clinical application has become a reality with the development of comprehensive databases and clinical practice guidelines, by international workgroups such as the PharmGKB, Pharmacogenetics Implementation Consortium (CPIC®) and the Dutch Pharmacogenetics Working Group (DPWG). As of June 2021, the United States Food and Drug Administration (FDA) has 326 approved drugs with a corresponding pharmacogenomic biomarker on the drug label, of which 10% are used in neurology. In Singapore, HLA-B*15:02 genotyping before initiating carbamazepine in patients of Asian ancestry was the first widely implemented pharmacogenomic test, recommended as standard of care by the Health Sciences Authority (HSA) of Singapore, to prevent Stevens-Johnson syndrome and toxic epidermal necrolysis. Other notable drug-gene pairs that are relevant in the field of Neurology include CYP2C19 genotyping to assess treatment efficacy of clopidogrel for stroke prevention, and CYP2C9 genotyping prior to initiation of siponimod. This session will highlight current integration of pharmacogenomics in the clinical management of neurological disorders, practical challenges with respect to clinical implementation and future directions.

TRACK 5: INNOVATION

Igniting the Creative Spark to Drive What Matters in Practice Innovation

Ms Lynette Ong
Director
Transformation
Tan Tock Seng Hospital

Synopsis

Creativity, as a verb, is about solving problems with new solutions that have value. Creativity comes from the Latin term *creo* and simply refers to 'create' or 'make'. Creativity is in you and me. It is possible to harness the creativity in each of us and our stakeholders through a creative process. This will then allow collective creativity and wisdom to solve complex issues or prepare for the rapidly evolving business environment, and deliver What Matters to our patients, colleagues, and stakeholders. This session will share how a creative approach is used to envision a Pharmacy without Walls in Tan Tock Seng Hospital, Singapore.

Supply Chain Resiliency Amidst COVID-19 Pandemic

Ms Tan Yan Ann
Managing Director
Zuellig Pharma Pte Ltd

Synopsis

The healthcare supply chain in Asia has by far seen one of its greatest challenges from the impact of COVID-19. To ensure the continuity of healthcare supplies, having a robust supply chain is of paramount importance, and more so when it comes to protecting our community. More importantly, we have seen the pandemic driving digitalisation in many companies including ours, to adapt to the new ways of conducting business with our customers and clients.

In this session, Ms Tan will share an overview of the healthcare supply chain and take a closer look at how Zuellig Pharma, one of Singapore's leading healthcare service providers, combats the challenges posed by the pandemic through building resiliency in its operations by adopting and accelerating its digital initiatives during these exceptional times.

TRACK 5: INNOVATION

The Use of Robotics and Technology in the Setting Up of a GMP-Ready Aseptic Compounding Facility

Mr Peter Yap
Pharmacy Practice Manager
National Cancer Centre
Singapore

Synopsis

This session aims to provide the audience with an overview of what is required of a GMP-ready aseptic compounding facility for compounding of chemotherapy drugs. The audience will be taken on a journey to the setting up of such a facility. It will focus on the additional requirements needed to comply with the Pharmaceutical Inspection Co-operation Scheme (PIC/S) standards. From there, the audience will be introduced to how the use of robotics and other technology can help to meet these standards, which aim to ensure that products are consistently produced and controlled according to quality standards. The session will also introduce the audience to some of the robotics currently in the market and how these and other technological tools can and are enhancing the current practices used in aseptic compounding to ensure that the safety (of the staff), efficacy and sterility of these products are maintained.

TRACK 6: GOVERNANCE

EXPEDITE: The Pandemic Special Access Route (PSAR)

Dr Looi Yee Hoo
Deputy Director
Therapeutic Products Branch
Health Sciences Authority

Synopsis

The Pandemic Special Access Route (PSAR) was implemented in December 2020 to enable regulatory agility in responding to any emergency that may pose serious threats to the public, such as in the situation of a pandemic. Through the PSAR pathway, HSA prioritises the review of critical COVID-19 vaccines and therapeutics; and enables rolling submission to facilitate early initiation of the regulatory review while clinical and quality-related studies by the manufacturers are still ongoing. This has allowed HSA to expedite access to COVID-19 vaccines and anti-viral therapies while ensuring the scientific rigour of the assessment of quality, safety, and efficacy.

TRACK 6: GOVERNANCE

Product Defect Surveillance through Web Crawling and Machine Learning, and Management of Issues Relating to Substandard Medicines

Mr Desmond Teo
Data Analyst
Vigilance and Compliance
Branch
Health Sciences Authority

Mr Choong Chih Tzer
Senior Regulatory Specialist
Vigilance and Compliance
Branch
Health Sciences Authority

Synopsis

Substandard medicines are medicines that fail to meet their quality standards and/or specifications and can lead to serious safety issues. It is crucial to identify and manage such issues promptly to protect public health. The Vigilance and Compliance Branch (VCB) of HSA maintains oversight of investigations into product quality defects in Singapore to assess risk levels, determine appropriate market actions, and corrective and preventive actions, if any, to address the issue and mitigate risks. To enhance post-market surveillance of substandard medicines, VCB developed an automated web crawling tool, coupled with machine learning and keyword-based models, to extract and classify alerts relating to substandard medicines to facilitate review of cases. The tool accurately classified up to 97% of relevant alerts from about 350 alerts across 46 regulatory agency webpages per week. Future efforts to automate the classification of defect types and the extent of risk to public health could be explored.

Medico-legal Dilemmas in Tele-medicine

Ms Elaine Teo
Director
Aged and Ancillary
Service Regulations and
Transformation
Ministry of Health

Synopsis

This session discusses tele-medicine in practice and emerging trends, the associated risks, and the medico-legal dilemmas for professionals and service providers.

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LUNCH SYMPOSIUM

Deep Dive on Peripheral Neuropathy (Sponsored By Procter & Gamble)

Speaker

Information not available

Synopsis

More than 50% of type 2 diabetes mellitus patients over 60 years old suffer from diabetic peripheral neuropathy (DPN). If DPN is not diagnosed and treated in early stages, it usually progresses to neuropathic pain that can significantly impact a patient's quality of life. In this session, we will explore the signs & symptoms, burdens and management of DPN. Additionally, we will explore the role of Vitamin B1 in neuroactivation, Vitamin B6 in neurotransmission and Vitamin B12 for nerve regeneration.

PLENARY LECTURE 3: RESILIENCE AND RECOVERY

The Art of Becoming Resilient

Dr Huang Wanping

Head, Principal Psychologist
Tan Tock Seng Hospital

Synopsis

This presentation will explore what we can all try and do within our internal locus of control to own our individual journeys in becoming resilient. Resilience is defined as one's ability to withstand, adapt and grow in the face of adversity, setback, and failure. In so doing, we will be able to develop an individual action plan as we learn how to become resilient using the "Withstand Adapt Grow" framework. This simple framework serves as a guide to help operationalise the efforts one can take to shore up his level of individual resilience.

PLENARY LECTURE 3: RESILIENCE AND RECOVERY

The Disappearing Commute

Ms Soon Jiaying
Senior Clinical Psychologist
Resilienz

Synopsis

Do you find yourself feeling exhausted and less effective at work? These are some characteristics of burnout, which occurs when chronic workplace stress is not effectively managed. The uncertainties, reduced social interactions and frequent changes in regulations have worn people down.

Working from home has made it more difficult to strive for a work-life balance. This in turn leads to a sense of disconnection between engagement and well-being in both work and personal life. This talk introduces you to ways to enhance your well-being. You will learn about the signs, symptoms, and stages of burnout, as well as the difference between burnout and other mental health conditions. This educational talk will also provide you with strategies to cope with burnout and enlighten you on an alternative perspective of work-life engagement as opposed to work-life balance.

Joy in Work

Prof Chua Hong Choon
Chief Executive Officer
Khoo Teck Puat Hospital and
Yishun Health

Synopsis

The past couple of years, dealing with the COVID-19 pandemic, have been an extremely stressful and challenging period for healthcare workers in Singapore; and many have experienced significant declines in their well-being, both physical and mental. It is therefore important to acknowledge the importance of staff well-being in healthcare organisations.

The Joy in Work movement, initiated by the Institute for Healthcare Improvement, has special relevance as we help healthcare workers to focus on what matters most in their work. This plenary session will examine the key elements of the Joy in Work framework, and how they can be applied to the local healthcare setting, to improve the well-being of healthcare workers in Singapore.

TRACK 7: ADVANCEMENT

Technology Enablement in Singapore's Pharmacy Services: A New Frontier

Dr Goh Cheong Hian
Deputy Director
Audit and Licensing Division
Health Sciences Authority

Synopsis

Under the Health Products (Licensing of Retail Pharmacies) Regulations 2016, a pharmacy licence is issued by HSA for the company to carry on a retail pharmacy business specified in the licence. Over the years, there is greater use of technology in the Singapore healthcare landscape. It is important that companies comply with the requirements when integrating technology into their pharmacy activities. This presentation shares an overview of the technology enablement (e.g., tele-pharmacy service, e-Pharmacy) in Singapore's pharmacy services, the expectations and responsibilities of pharmacy licensees; and HSA guidance resources for licensees to prepare and fulfil the prescribed legislative responsibilities.

Singapore's 1st E-Pharmacy: WellAway

Mr Marshall Liu
Associate Manager
WellAway E-Pharmacy

Synopsis

WellAway e-Pharmacy is Singapore's first HSA-registered e-Pharmacy and a subsidiary of Pan-Malayan Pharmaceuticals, Singapore's leading local pharmaceutical wholesaler.

Setting up an e-Pharmacy is beyond codes and programming. It needs to take into consideration one's logistic capabilities and buy-ins from various stakeholders such as pharmaceutical companies, doctors and patients. It is also important for pharmacists to rethink their roles in the digital setting. In this session, Marshall will share the success and hard work behind WellAway e-Pharmacy and how pharmacists can play a part in the new era of digital health.

TRACK 7: ADVANCEMENT

Incorporating Technology into Community Pharmacy Services in the Time of COVID-19: A Hong Kong Perspective

Mr Hubert Suen
Pharmaceutical Officer
ActiveCare Group

Synopsis

COVID-19 has brought its fair share of challenges to community pharmacies and the residential care/nursing homes that they serve. This includes manpower shortages, a reduction of nursing home visitations by clinicians and pharmacists, and in turn – a reduction of face-to-face clinical meetings. The traditional reliance of residential care/nursing homes on paper medication charts to prepare, check and subsequently administer medications to their residents compounds the issues brought along by COVID-19. During the pandemic, technological innovations such as Zoom meetings and various iOS applications have allowed community pharmacists to overcome some of these challenges to ensure they can provide continuity of care for their patients.

TRACK 8: ACTIVATION

The ESTHER Network — What is Best for Esther (Patient)?

Dr Khee Giat Yeng
Senior Principal Clinical
Pharmacist
Singapore General Hospital

Synopsis

The ESTHER Network (EN) started in Jonkoping, Sweden, in 1997. “Esther” is a symbolic 88-year-old lady who requires close coordination across different care settings to address her health and social care needs. The Network constantly seeks to answer the question, “What is best for Esther?” by putting the individual at the heart of all its work.

ESTHER Network Singapore was established in 2016, and it has been a platform for co-production and co-design with patients, residents, and caregivers; undergirded by the philosophy of person-centred care and self-improvement. It is a tool to encourage a culture of shared decision, co-production, and empowerment.

This presentation will illustrate how EN connects the dots between social and healthcare providers to facilitate person-centred improvement work and deliver services that matter to patients. Pharmacist-led person-centred improvement initiatives will be shared to demonstrate how we can be involved and deliver person-centred services.

TRACK 8: ACTIVATION

The PROMise of Person-Centred Care

Dr Soh Huimin
Senior Pharmacist (Clinical)
Tan Tock Seng Hospital

Synopsis

Patient-Reported Outcomes (PRO) have been progressively incorporated into clinical practice in recent times. Given the current transition to person-centred value-based care, PRO measures (PROMs) have become increasingly important to shared decision-making between patients and their healthcare providers.

In patients with multimorbidity, it is often a challenge to elicit personal beliefs and concerns that contribute to medication non-adherence, nor is it feasible to address them all in a time-limited clinic consultation. For this segment, we share an example of implementation of PROMs to support effective medication management. We hope to inspire colleagues to routinely incorporate PROMs into their daily practice, build trusting partnerships with their patients, and have conversations that truly reflect patient preferences.

Primary Care Services — A Case Study Implementing BPS Interventions

Mr Choo Yan Cheng
Senior Pharmacist
Watson's Personal Care
Stores

Synopsis

“Medical care is estimated to account for only 10 to 20 percent of the modifiable contributors to healthy outcomes for a population. The other 80 to 90 percent are sometimes broadly called the Social Determinants of Health: health-related behaviours, socioeconomic factors, and environmental factors.” – Sanne Magnan, MD, PhD, of Health Partners Institute.

The biopsychosocial (BPS) approach systematically considers biological, psychological, and social factors and their complex interactions in understanding health, illness, and health care delivery. Senior activity centres achieve this with community spaces where care staff build relationships with clients and keep them mentally stimulated by encouraging participation in active ageing.

In a pilot programme coordinated by MOH, pharmacists are partnered with the centres and their seniors to help with empowerment in health ownership and effective medication usage. Mr Choo Yan Cheng (Senior Pharmacist) from Watson's Personal Care Stores will share his reflections on community healthcare and experiences with seniors and centre staff.

TRACK 9: SCHOLARSHIP

PECT-ing and Unpacking the Pharmacy Undergraduates' Experiential Training for the Brave New World

A/Prof Doreen Tan
Associate Professor
Department of Pharmacy
National University of
Singapore

Synopsis

In 2018, the new B. Pharm (Hons.) programme saw its first students entering the revamped pharmacy course by the NUS Pharmacy Department. Integrating pharmaceutical, biomedical, clinical and systems sciences, the curriculum design was deliberate in scaffolding and spiralling concepts throughout the four undergraduate years – morphing from problem-based to competency-based learning. Pre-Employment Clinical Training (PECT) was now to commence from Year 1 and this was termed PECT I to differentiate it from the current PECT which commenced only in the final year (now termed PECT II). The pedagogy for PECT I – the Kolb's learning cycle – led to the conceptualisation of the PECT I framework to mirror the curriculum. Work commenced in February 2021 in a series of two workshops involving several senior pharmacists across the island, with an intended roll-out of PECT I for October 2021 when the inaugural batch would be in Year 2. Practising pharmacists as young as second- and third-year practitioners were selected and trained through Faci-Net to be clinical educators for these young students. Join me in recounting the deliberate design of PECT I and learn what future-ready graduates could look like, in meeting the challenges of the brave new world.

View the ethos of PECT I [here](#) or [here](#)

A Path Less Travelled: Narratives from Data-Analytics, Pharmacoeconomics and Health Preference Research

Dr Tan Eng Hooi
Postdoctoral Research
Assistant
Nuffield Department
of Orthopaedics,
Rheumatology and
Musculoskeletal Sciences
University of Oxford

Synopsis

In this presentation, Dr Tan Eng Hooi will share her postgraduate journey and challenges faced along the way. The following topics will be covered: postgraduate study options (Masters/PhD, in person/distance learning, part time/full time); experience at the University of Oxford; and career pathways for a postgraduate/postdoctoral researcher.

Dr Michelle Lim
Associate Director, Clinical
Program Operations
Exploratory Medicine and
Pharmacology
Eli Lilly and Company

Synopsis

Dr Michelle Lim has a proven track record of ten years in the pharmaceutical industry spanning across drug development and clinical research. She is well-versed in ICH-GCP and adept at clinical strategy planning and implementation of clinical trials. Her doctoral research in resistance mechanisms and discovery of novel genes for Novartis's Phase IIb antimalarial drug candidate was published in peer-reviewed journals, including a first-author paper in Nature Microbiology. Michelle has been a registered pharmacist with the Singapore Pharmacy Council since 2011. In this talk, she will share her postgraduate journey, challenges faced along the way, and industry experience in drug development.

TRACK 9: SCHOLARSHIP

A Path Less Travelled: Narratives from Data-Analytics, Pharmacoeconomics, and Health Preference Research

Dr Poon Jiat Ling
Director
Value, Evidence, and
Outcomes
Eli Lilly and Company

Synopsis

From Singapore to the American Midwest. This was not where I thought my career would take me when choosing my 'A' levels subjects. It also was not the intended goal of the journey I set off on when I entered NUS Pharmacy. Far from it. My one guiding purpose throughout my academic and professional career has been to "help patients". This has taken me on a road less travelled, away from direct patient care into measurement science and patient-focused outcomes research. As a measurement scientist, I have a direct impact on making life better for patients at the "source", leading the incorporation of the patient voice throughout the drug development life cycle to understand and assess what matters most to patients – how they feel and function. Join me as I share my story about the decision-making that took me on this somewhat "different" career path.

Speakers

Keynote Speaker



Dr Prem Kumar Nair

Chief Executive Officer
IHH Healthcare Singapore

Dr Prem Kumar Nair is the Chief Executive Officer of IHH Healthcare Singapore, overseeing IHH's business units in Singapore – Mount Elizabeth, Mount Elizabeth Novena, Gleneagles and Parkway East hospitals, Parkway Shenton, Parkway Radiology, Parkway Laboratories and Parkway College. A physician and healthcare executive with over 35 years of experience in both public and private sectors, he was previously with Raffles Medical Group for 27 years, as Chief Corporate Officer and Managing Director, Singapore Healthcare. He is an Adjunct Associate Professor at the National University of Singapore's Saw Swee Hock School of Public Health. In 2010, he received the Public Service Medal at the National Day Awards for his contributions to the Singapore Prison Service. He is also a Justice of the Peace.

Dr Prem graduated from the National University of Singapore with a Bachelor of Medicine and Surgery, and a Master of Business Administration (Distinction), Manchester Business School.

Plenary Speakers



Dr Camilla Wong

Chief Pharmacist
Chief Pharmacist's Office
Ministry of Health

Dr Camilla Wong has 25 years of experience in healthcare and is currently Director, Allied Health, Sengkang General Hospital (SKH) and Chief Pharmacist at the Ministry of Health (MOH).

At SKH, Dr Wong oversees 13 Allied Health departments including Pharmacy. She is a member of several SKH committees including the Medical Board and IT Steering Committee, and as part of the SKH Senior Management team, serves as a catalyst for collaborative partnerships between the various departments and SKH stakeholders.

Dr Wong has played an integral role in the development of career pathways and competency frameworks for the pharmacists and Allied Health professionals both cluster-wide and nationally. She has been a role model and mentor to pharmacists and other healthcare professionals, with many helping leadership and headship positions.

Recognised as a leader in healthcare, she has been appointed to numerous committees spanning a variety of portfolios including the SHS Allied Health Council, One Rehabilitation Workgroup, Institute of Patient Safety and Quality, Patient Experience Council, Singapore Pharmacy Council, MOH Pharmacist Specialist Accreditation Board, and HSA Medicines Advisory Committee.

As Chief Pharmacist, MOH, Dr Wong oversees the National Pharmacy Strategy which spans over 19 initiatives, encompassing pharmaceutical care excellence, developing a confident pharmacy workforce, re-designing the supply chain, and information and technology enablement.

She was a past president of the Pharmaceutical Society of Singapore (PSS) and has received a number of awards including the PSS' Professor Lucy Wan, Outstanding Pharmacist of the Year Award, Federation of Asian Pharmaceutical Associations Ishidate Award for Hospital Pharmacy, Group CEO SingHealth Excellence Award for Allied Health and the Singapore National Day Awards, Long Service and Commendation Medals.

Plenary Speakers



A/Prof Audrey Chia

Associate Professor
NUS Business School and Yong Loo Lin School of Medicine
National University of Singapore

Audrey Chia is Associate Professor at the NUS Business School, with a joint appointment at the Yong Loo Lin School of Medicine, National University of Singapore (NUS). Her research applies leadership, change and innovation as theoretical foundations to address health, environmental and social challenges. Her research has been published in journals such as JAMA (Journal of the American Medical Association), The BMJ (British Medical Journal) and Obesity Reviews. She has served as an invited expert on social entrepreneurship, innovative philanthropy and financing, and sustainable development at the United Nations, Asian Development Bank, Organisation for Economic Co-operation and Development, and the Asia-Pacific Leaders' Malaria Alliance. She serves on the Management Committee of the United Nations Global Compact Network Singapore. A/Prof Chia directs NUS Business School's Executive Leadership Development Programme. From 2011-2017, she directed the NIHA (NUS Initiative to Improve Health in Asia) Healthcare Leadership Programme for senior leaders across Asia.



Dr Colin Tan

Chief Medical Officer
Singapore Civil Defence Force

Dr Colin Tan is a Senior Consultant specialising in Public Health, with an interest in healthcare management.

He is a military medical officer with the Singapore Armed Forces (SAF) and has held various appointments both within and outside of the SAF. Most recently, Dr Colin Tan was the Head of General Staff in the Singapore Armed Forces Medical Corps when COVID-19 emerged and was deeply involved in the planning and execution of contingency plans in response to the pandemic.

Dr Colin Tan is currently the Chief Medical Officer in the Singapore Civil Defence Force, where he is responsible for the clinical performance of the 995 Emergency Medical Services.



Dr Huang Wanping

Head, Principal Psychologist
Tan Tock Seng Hospital

Dr Huang Wanping is a Principal Psychologist and Head of the Department of Psychology at Tan Tock Seng Hospital. She was awarded the Health Manpower Development Programme scholarship by the Ministry of Health (MOH) in 2008 to pursue a postgraduate degree in Clinical Neuropsychology at Macquarie University, Sydney, Australia. She is passionate about helping individuals cope with the multitude of psychological, cognitive, emotional and behavioural changes following traumatic brain injury, stroke, and neurological conditions in order to optimise recovery, rehabilitation, and quality of life.



Ms Soon Jiaying

Senior Clinical Psychologist
Resilienz

Ms Soon Jiaying is a Clinical Psychologist with the Resilienz Clinic. Over the years, she has worked with youths, adults and the elderly with various mental health issues and severity. She supported clients who had difficulty coping with mental health issues such as depression, anxiety, insomnia, behavioural issues, interpersonal issues, self-harm and risk. Jiaying believes in the importance of public education to reduce the stigma of mental health conditions and promote mental wellness. It is her hope to be able to empower others to find hope and meaning to their lives.

Plenary Speakers



Prof Chua Hong Choon

Chief Executive Officer
Khoo Teck Puat Hospital and Yishun Health

Dr Chua Hong Choon is Chief Executive Officer of Khoo Teck Puat Hospital (KTPH) and Yishun Health, and Deputy Group Chief Executive Officer (Strategy and Transformation), National Healthcare Group (NHG) in Singapore. A psychiatrist by training, Dr Chua is also Adjunct Professor at the Lee Kong Chian School of Medicine, NTU and Adjunct Associate Professor at Yong Loo Lin School of Medicine, NUS.

Dr Chua is interested in the fields of public health, psychiatric epidemiology, depression and anxiety, and quality and safety in healthcare. He was the first Patient Safety Officer at the Institute of Mental Health (IMH), where he initiated programmes to improve clinical quality and safeguard patient safety at IMH.

Symposium and Track Speakers



Dr Goh Lih Ling

Senior Principal Scientific Officer
Personalised Medicine Services
Tan Tock Seng Hospital

Dr Goh Lih Ling is the Laboratory Director of the Molecular Diagnostic Laboratory at Tan Tock Seng Hospital (TTSH). She received her Ph.D. in 2006 from the National University of Singapore and continued her post-doctoral training in molecular cell biology at A*STAR's Institute of Medical Biology. She joined TTSH in 2014 and established the Molecular Diagnostics Laboratory and Biobank, with the major objective of bridging the gap between genomics research and its applications for precision medicine. Till date, she has authored and co-authored more than 30 peer-reviewed papers and received the prestigious Health Manpower Development Plan (HMDP) award in 2015 to learn the implementation of the precision medicine programme in Mayo Clinic. Her major clinical and research interests focus on the development of pharmacogenetics and less invasive blood testing for early detection of cancer and disease progression.



Dr Carol Tham

Senior Consultant
Department of Neurology
National Neuroscience Institute

Dr Carol Tham is a Senior Consultant Neurologist with the National Neuroscience Institute, Singapore. She is also an Adjunct Assistant Professor with Duke-NUS School of Medicine. She completed her specialist training in Neurology in Singapore and did a clinical fellowship in Stroke in Canada. Her clinical and research interests are in acute ischaemic stroke, stroke genetics and reperfusion strategies.

Symposium and Track Speakers



Dr See Toh Wei Yann

Senior Pharmacist (Clinical)
Tan Tock Seng Hospital

Dr See Toh Wei Yann is a senior clinical pharmacist with Tan Tock Seng Hospital, Singapore. She completed her PharmD in 2018 and is also a board-certified ambulatory care pharmacist. She manages anticoagulation service for patients on warfarin therapy and runs pharmacist-led cardiovascular risk factors management clinics. She is also certified as a clinical diabetes educator who manages diabetes in a transdisciplinary diabetes care team.



Dr Wang Yu Tien

Senior Consultant
Gastroenterology and Hepatology
Nobel Gastroenterology Centre Gleneagles Medical Centre

Dr Wang Yu Tien joined Nobel Gastroenterology Centre with 20 years of experience from Singapore General Hospital (SGH) where he was Senior Consultant and Director of Research at the Department of Gastroenterology and Hepatology.

His subspecialty interest is in digestive function disorders (e.g. Gastroesophageal Reflux and Irritable Bowel Syndrome). He did his fellowship at St. Barts and Royal London Hospital in 2012. After returning, he started the Irritable Bowel Syndrome Service at SGH which integrated Medical, Psychological and Dietary services. He was also the former director of the Gastrointestinal Function Laboratory at Singapore General Hospital and Scientific Chairperson of the Gastroenterology Society of Singapore.

He has conducted extensive research in digestive function disorders and has served as the Gastroenterology editor of Singapore Medical Journal.



A/Prof Tan Ru San

Senior Consultant
Department of Cardiology
National Heart Centre Singapore

A/Prof Tan Ru San is a Senior Consultant with the Department of Cardiology at the National Heart Centre Singapore. His research interests include cardiac imaging and cardiac engineering. He is also an experienced clinical trialist and has been a member of steering committees of several landmark clinical trials.



A/Prof Christine Teng

Associate Professor
Department of Pharmacy
National University of Singapore

A/Prof Christine Teng has been a pharmacist for more than 20 years and remains passionate in her roles as a pharmacist, an educator and a researcher. As a pharmacist in Tan Tock Seng Hospital, she ensures appropriate use of antibiotics as part of the Antimicrobial Stewardship Team. In NUS, A/Prof Christine oversees the Doctor of Pharmacy Programme and the Office of Residency Training and teaches various NUS Pharmacy undergraduate and postgraduate courses. She delights in teaching students and mentoring young pharmacists. A/Prof Christine conducts research to bridge the gaps between knowledge, practice and optimal patient care. She was a research scholar at Mayo Clinic (Rochester, Minnesota) in 2013 and assumed a key role in conducting the first randomised controlled trial (RCT) on use of rapid diagnostics and antimicrobial stewardship for management of bloodstream infections.

Symposium and Track Speakers



Dr Sim Mui Hian

Principal Clinical Pharmacist
Singapore General Hospital

Dr Sim Mui Hian received her Pharm.D. from the National University of Singapore and subsequently became a collaborative prescriber in 2019. She is currently a Principal Clinical Pharmacist at the Singapore General Hospital. She has a keen interest in Renal Medicine and has been running the Low Clearance Clinic, Peritoneal Dialysis Clinic and Renal Supportive Care Clinic. Through these clinics, she optimises the pharmacotherapy of her patients and engages them in understanding their medications.



Ms Selina Cheong

Senior Pharmacist (Clinical)
Tan Tock Seng Hospital

Ms Selina Cheong has ten years of working experience in Geriatrics, is a Certified Geriatric Pharmacist and is currently a Senior Clinical Pharmacist at Tan Tock Seng Hospital. She completed her Postgraduate Year 2 Pharmacy Residency training (Geriatrics) by Ministry of Health Singapore in 2016. She holds a Master's in Clinical Pharmacy from Queen's University, UK, and an Honours degree in Pharmacy from NUS.

Selina's work is based mainly in the inpatient and emergency department setting. These include educating the elderly and their caregivers on how to manage medications and their diseases, as well as collaborating with other healthcare professionals to provide quality care to older adults. She is also involved in research on medication use in the elderly population. Selina has spoken at various conferences, including the Australian and New Zealand Society for Geriatric Medicine Annual Meeting, Asia-Pacific Conference of Hypertension, Singapore Health and Biomedical Congress and Singapore Pharmacy Congress.



Ms Dorothea Koh

Chief Executive Officer and Founder
Bot MD

Dorothea Koh is the Co-Founder and Chief Executive Officer of Bot MD, a Y Combinator-backed startup that is building an AI clinical assistant for doctors. Since 2018, Bot MD has been used by over 18,000 doctors globally. During the COVID-19 pandemic, Bot MD was used to help doctors provide daily vital signs monitoring to over 4,000 patients. Prior to starting Bot MD, Dorothea was the General Manager of Baxter for Indonesia, Singapore and Philippines. She has 15 years of healthcare industry experience across several geographies including China where she helped innovate new business models. Dorothea began her career in the Singapore Economic Development Board before joining Medtronic as Senior Manager, Business Development and Strategy. Dorothea graduated summa cum laude with her B.S. in Biomedical Engineering from Northwestern University and received her M.S. in Bioengineering from Stanford University. She is the youngest fellow to be awarded the Stanford Bidesign Innovation fellowship.



Mr Rethinam Ganesan

Senior Physiotherapist
Tan Tock Seng Hospital

Mr Rethinam Ganesan is a Senior Physiotherapist and has been working at Tan Tock Seng Hospital for the past eight years. He has a keen interest in population health and in the prevention and management of chronic diseases. He has experience managing patients with cardiac diseases, bronchiectasis, chronic obstructive pulmonary disease, obesity and diabetes in both inpatient and outpatient settings. Rethinam was previously the Programme Lead for the Division of Central Health's diabetes community programme. This programme was awarded the Centre of Allied Health Pharmacy Excellence Grant in 2019. In addition, he is an advocate for the use of technology in chronic disease management.

Symposium and Track Speakers



Mr Low Cheaw Hwei

Head of Design
Philips ASEAN Pacific and Design Consulting, Asia
Philips Electronic Singapore Pte Ltd

Mr Low Cheaw Hwei is Head of Design for Philips ASEAN Pacific and Design Consulting for Asia. He is also the Head of Government and Public Affairs for Philips in Singapore. Currently on the Philips ASEAN Pacific and Philips Experience Design management team, Cheaw Hwei looks after the overall direction of design in the region. He leads the company's pivot to a design-led transformation as Philips, a leader in healthcare technology, moves towards experience and solutions-based innovation. His second role brings synergy in driving both design and innovation initiatives into the work that Philips does with the public sector in Singapore. Cheaw Hwei is currently chairperson of the Design Education Advisory Committee (DEAC), a national level initiative set up to push the agenda of design into the industry and education sector.



Ms Carolyn Ho

Senior Manager
Chief Pharmacist's Office
Ministry of Health

Ms Carolyn Ho works at the Chief Pharmacist's Office, Ministry of Health Singapore. She engages key stakeholders to progress workforce development initiatives for pharmacy. She is passionate about the advancement of a future-ready workforce in pharmacy and healthcare. For this presentation, she shares insights gathered through the Chief Pharmacist - Pharmacy Technician Leaders meeting platform and the Pharmacy Technicians Training and Development Committee. The Committee's key contributions include the development and implementation of the Pharmacy Technician Entry-to-Practice Competency Assessment Framework and the Skills Framework for pharmacy support workforce. She looks forward to learning from others and sharing experiences within the pharmacy community.



Ms Denise Yang

Senior Pharmacy Technician
Tan Tock Seng Hospital

Denise is a Senior Pharmacy Technician at Tan Tock Seng Hospital Outpatient Pharmacy. She joined the 'Pharmily' in 2016 after receiving a Diploma Certification at Republic Polytechnic.

Other than the regular duties such as dispensing and conducting interventions, she is also a member of the Home Delivery team and Outpatient Pharmacy Automation System (OPAS) Re-engineering team. She has to work closely with her team to train newcomers (pharmacy technicians, pre-registration pharmacists, and temporary staff) to help them better understand the hospital's OPAS system.

In recognition of these contributions, she was presented with the Support Staff Educator Award for Pharmacy Technicians in 2021.



Ms Jocelyn Diamantha

Pharmacy Technician
Khoo Teck Puat Hospital

Jocelyn Diamantha graduated from Republic Polytechnic in 2016 where she earned a Diploma in Pharmaceutical Sciences with Merit. She is a well-trusted and passionate Pharmacy Technician with over five years of working experience in direct patient care, floor operations, and manpower allocation. She is also known as a "Clinic Pharmacy Technician" in Khoo Teck Puat Hospital Pharmacy, assisting Ambulatory Clinic Pharmacists by performing pre-consult interviews, medication reconciliation, and some administrative work. She was appointed as Second In-Charge of Pharmacy Technicians within one year to set up a new pharmacy at Admiralty Medical Centre. She is also involved in many improvement projects, also known as "Kaizen", to increase productivity and efficiency of operational workflows. Her team competed and was awarded a medal at the Alexandra Health Kaizen Fest 2018 for their project, "Virtual Interactive Pharmacy Shelf". Another project, "At the Snap of a Finger", which transformed and improved manual workload tracking by using Central Data Repository (CDR), was also shortlisted for Yishun Health's Kaizen Competition 2021.

Symposium and Track Speakers



Mr Izwan Hosni

Senior Pharmacy Technician
KK Women's and Children's Hospital

Izwan Dzakie Hosni is a Senior Pharmacy Technician at KK Women's and Children's Hospital. He has been with the hospital's IOPAS Department for the last eight years and now leads his department's Risk Management policies and Pillpick system. He graduated with a diploma in Pharmaceutical Science from Republic Polytechnic and holds an Advanced Diploma in Pharmaceutical Science from Nanyang Polytechnic.

During the early stages of COVID-19 in early 2020, Izwan volunteered to serve the dormitory workers in Shaw Lodge. It was one of the few dormitories set up by MOH. The one-month stint in the dormitories convinced him about the importance of adaptability and resilience. In 2021, he was awarded the HERO Award during the special edition of the annual Singapore Health Quality Service Award (SHQSA) for his contributions to the dormitories that he served.



Ms Ashwini Suppaiyah

Pharmacy Technician
Sengkang General Hospital

Ashwini Suppaiyah holds a Degree in Biomedical Sciences, and began working as a Pharmacy Technician at Sengkang General Hospital in 2019.

Her scope of work includes guiding A&E patients at the reception, typing prescriptions, packing discharge patients' medication bags and monitoring patients' drugs and supply of medications. She is also a part of the consumables team where she ensures her pharmacy has sufficient supplies of all the materials needed in their daily operations.

When COVID-19 hit, she took part in the Dormitory project for five months where she helped dispense medications to foreign workers. She spent another five months serving in the Vaccine Dilution project in Punggol Polyclinic.



A/Prof Mark Koh

Head of Department & Senior Consultant
Department of Dermatology
KK Women's and Children's Hospital

Dr Mark Koh is a dermatologist, paediatric dermatologist and dermatopathologist. He is Head and Senior Consultant at the Department of Dermatology, KK Women's & Children's Hospital. He is a Visiting Consultant at Singapore General Hospital, Sengkang General Hospital & National Cancer Centre. Dr Koh is a Clinical Associate Professor at Duke-NUS Graduate Medical School, Adjunct Associate Professor at NTU-Lee Kong Chian Medical School, and Senior Clinical Lecturer at the NUS-Yong Loo Lin Medical School. Dr Koh is Secretary General of the Asian Society of Pediatric Dermatology (ASPD) and Treasurer of the International Society of Pediatric Dermatology (ISPD).



Clin Asst Prof Lee Jie Xin Joycelyn

Consultant
Division of Medical Oncology
National Cancer Centre Singapore

Dr Lee is a medical oncologist in the Department of Gastrointestinal Oncology, Division of Medical Oncology at National Cancer Centre Singapore. She sees patients and conducts clinical research in the field of gastrointestinal oncology, with an interest in hepatopancreatobiliary cancers, immuno-oncology and supportive care. She participates in postgraduate and undergraduate medical teaching.

Symposium and Track Speakers



Dr Shawn Vasoo

Clinical Director & Senior Consultant
National Centre for Infectious Diseases

Dr Shawn Vasoo is Clinical Director and Senior Consultant at the National Centre for Infectious Diseases (NCID), Singapore. He graduated from the National University of Singapore in 2001, and completed his residency training in Internal Medicine and his fellowship in Infectious Diseases at Rush University Medical Center in Chicago and following that, a Clinical Microbiology Fellowship and Orthopaedic ID fellowship at the Mayo Clinic in Rochester, Minnesota.

He also leads the Infectious Diseases Research Laboratory at NCID. He is active in undergraduate and postgraduate medical education and as Clinical Director oversees clinical and outbreak preparedness activities at NCID, which is a ~330 bed facility in Singapore purpose-built for outbreaks, and also chairs the COVID-19 therapeutic workgroup in Singapore. Besides COVID-19, he oversaw responses at NCID to several outbreak responses in recent years, including measles and monkeypox in 2019.



Prof Patrick Tan

Executive Director
Precision Health Research Singapore (PRECISE)

Prof Patrick Tan is the Executive Director of PRECISE and will oversee the implementation of Phase II of Singapore's National Precision Medicine Strategy, which aims to transform healthcare in Singapore, and improve patient outcomes through new insights into the Asian genome and data-driven healthcare solutions.

During the 2020 COVID-19 pandemic, Prof Tan was Programme Director of Operation Stronghold, establishing one of Singapore's largest COVID-19 testing facilities through a joint effort involving A*STAR (Agency for Science, Technology and Research), National University Health System, and Temasek Holdings.

Prof Tan is also Executive Director of the Genome Institute of Singapore and Professor at the Duke-NUS Medical School. He received his B.A. (summa cum laude) from Harvard University and M.D., Ph.D. from Stanford University, where he received the Charles Yanofsky prize for Most Outstanding Graduate Thesis in Physics, Biology or Chemistry.

Other awards include the President's Scholarship, Loke Cheng Kim Scholarship, Young Scientist Award (A*STAR), Singapore Youth Award, Chen New Investigator Award (Human Genome Organisation), President's Science Award, and the Japanese Cancer Association International Award. In 2018, he received the American Association for Cancer Research (AACR) Team Science Award as Team Leader, representing the first time a team from Asia has received the award. He is an elected member of the American Society for Clinical Investigation (ASCI), the Bioethics Advisory Committee (BAC), a Board Member of the International Gastric Cancer Association, and on the Board of Reviewing Editors for Science.

Symposium and Track Speakers



A/Prof Edward Chow

Associate Professor
Cancer Science Institute of Singapore
National University of Singapore



Dr Wong Pei Shieen

Senior Principal Clinical Pharmacist
Singapore General Hospital

Dr Wong Pei Shieen is a clinical pharmacist with a special interest in Neurology, based at Singapore General Hospital. She is recognized as an active interprofessional team player within the National Neuroscience Institute (NNI) community and takes lead in various drug-related initiatives. She strongly believes that pharmacists are equipped with the skillsets to operationalise rational drug use through utilisation of appropriate tools, engagement of key stakeholders and understanding the healthcare landscape. She is currently growing her team of pharmacists, as well as educating future pharmacists to positively contribute to the care of patients with neurological disorders. During her Neurology training at University of Colorado, she had the privilege of crossing paths with practitioners and researchers who are passionate about clinical implementation of pharmacogenomics. This seeded her interest in pharmacogenomics application, and she hopes to work with like-minded practitioners to further its utilisation in our local community.



Ms Lynette Ong

Director
Transformation
Tan Tock Seng Hospital

Ms Lynette Ong is a change leader, experienced and passionate in transformation work through driving care and process redesign, workforce transformation, culture development and people development. She is an advocate for design thinking and lean in healthcare, championing for user-centered processes and products with built-in efficiency and sustainability. Under her charge, Tan Tock Seng Hospital is one of the founding members of the Singapore Chapter of the International Service Design Network (SDN). The network provides opportunities to co-learn from a larger design community and provide new insights to improving care delivery.

Ms Ong is also the Associate Director, Centre for Healthcare Innovation (CHI). She oversees the CHI Living Lab, which supports the development of innovative ideas for proof of concept and value. Ms Ong is a trained Design, Lean and OD practitioner by INSEAD Business School, Belmont University - Jack C. Massey Graduate School of Business and Northwestern University Kellogg School of Management.



Ms Tan Yan Ann

Managing Director
Zuellig Pharma Pte Ltd

Ms Tan Yan Ann is the Chief Executive of Zuellig Pharma Singapore, one of Asia's largest healthcare service groups. With more than 20 years of experience in Supply Chain Management, Yan Ann has held key roles such as Finance Director and Chief Operating Officer prior to being appointed as Chief Executive.

Under her leadership, Yan Ann has also driven Zuellig Pharma Singapore's digital transformation journey through innovative business solutions for healthcare professionals and clients such as eZRx, ZOLA and Ziplinsider. She has also led the Singapore office in its growth strategy such as its appointment as the Central Warehousing Distribution partner of ALPS to support the evolving local healthcare landscape. Prior to joining Zuellig Pharma, Yan Ann served in both finance and commercial roles at Unilever for close to 10 years. She also sits on the Board of the Singapore Association of Pharmaceutical Industries.

Symposium and Track Speakers



Mr Peter Yap

Pharmacy Practice Manager
National Cancer Centre Singapore

Peter is currently the Pharmacy Practice Manager at National Cancer Centre Singapore (NCCS). Peter has many years of experience in the various areas of pharmacy practice such as hospital, community, nursing homes as well as in sales and marketing in the pharmaceutical industry.

Peter is currently involved in the setting up of the new Cytotoxic Compounding Hub for the preparation of cytotoxic drugs at the new NCCS. This will be a Good Manufacturing Practice (GMP) facility and will see the introduction of robotics and technology to augment the increase in workload expected at the new Compounding Hub as it will not only cater to patients at the new NCCS, but also to the other institutions within the SingHealth cluster such as the Singapore General Hospital and Kangkar Kerbau Hospital.

Peter is a past winner of the Professor Lucy Wan Outstanding Pharmacist of the Year award and the area of aseptic compounding is something close to his heart and which he is passionate about.



Mr Desmond Teo

Data Analyst
Vigilance and Compliance Branch
Health Sciences Authority

Desmond is a Data Analyst and Pharmacist at the Health Sciences Authority (HSA), where he monitors the safety and quality profile of drugs and vaccines using data analytics. He is involved in the active surveillance of adverse event signals associated with the COVID-19 vaccines and helps to develop algorithms and tools to detect and manage these signals. Desmond also develops tools for health product quality surveillance, such as a webcrawler for horizon scanning.

Prior to his work at HSA, he was a Senior Pharmacist at the National University Hospital (NUH), where he co-developed the NUH myMeds mobile application to facilitate medication management for both patients and caregivers. The application was awarded the Excellence Award at the 2018 Asian Hospital Management Awards ceremony.

Desmond obtained his pharmacy degree from the National University of Singapore, and subsequently his MBA from the Quantic School of Business and Technology.



Dr Looi Yee Hoo

Deputy Director
Therapeutic Products Branch
Health Sciences Authority

Looi Yee Hoo, PhD, is Deputy Director of Therapeutic Products Branch of the Health Products Regulation Group, Health Sciences Authority (HSA), which administers the regulation and pre-market evaluation for drug registration in Singapore. Dr Looi started his HSA career as an evaluator for both clinical and toxicology review. He currently leads non-clinical evaluation and helps oversee benefit-risk assessment for marketing approval. Prior to joining HSA, he conducted safety assessments of drug candidates as an industry pharmacologist. Dr Looi earned his PhD in Pharmacology from the University of Strathclyde (United Kingdom), and completed his post-doctoral training, focusing on heart failure research, at King's College London.



Mr Choong Chih Tzer

Senior Regulatory Specialist
Vigilance and Compliance Branch
Health Sciences Authority

Chih Tzer is a pharmacist and graduated from the University of Otago, New Zealand with a Bachelor's in Pharmacy. He is a senior regulatory specialist with the Health Sciences Authority and has been working in the Vigilance and Compliance Branch for the past 15 years. His work involves the management of product defects and regulatory communications. Prior to joining the Health Sciences Authority, Chih Tzer has worked in both the hospital and retail pharmacy sector.

Symposium and Track Speakers



Ms Elaine Teo

Director
Aged and Ancillary Service Regulations and Transformation
Ministry of Health

Trained as a pharmacist, Elaine joined the Singapore Ministry of Health (MOH) in 2003 where she accumulated vast experience as a 'public entrepreneur' and regulator.

Amongst her various roles in public service, she had been instrumental in the establishment of the Optometrists and Opticians Board, the Allied Health Professions Council, and the Agency for Care Effectiveness. She also served as the inaugural registrar of the Allied Health Professions Council where she led the successful implementation of state licensure and professional regulation for occupational therapists, physiotherapists, speech therapists, radiographers and radiation therapists. Currently, she oversees aged and ancillary services regulation and regulatory transformation in the Health Regulation Group in the Ministry of Health, where she leads teams to assure regulatory compliance and patient safety, and to implement new tools, such as regulatory sandboxes, analytics, patient and consumer engagement and education, to strengthen the regulator's toolkit in responding to new risks in the evolving healthcare landscape.



Dr Goh Cheong Hian

Deputy Director
Audit and Licensing Division
Health Sciences Authority

Dr Goh Cheong Hian is currently Deputy Director of GDP and Licensing Unit of Health Products Regulation Group at Health Sciences Authority (HSA). He is also an Adjunct Assistant Professor in NUS Pharmacy. At HSA, Dr Goh is involved in developing policies, guidelines and frameworks for the regulation of retail pharmacies, as well as importers and wholesalers of Health Products and Chinese Proprietary Medicines. He has a keen interest in good manufacturing and distribution practices to ensure the manufacture of good quality medicines and preservation of product quality throughout the supply chain from manufacturers to distributors and retail pharmacies. Dr Goh received his Ph.D. from NUS, his MPH from Johns Hopkins University Bloomberg School of Public Health and postdoctoral training from University of Illinois at Urbana-Champaign. As a registered pharmacist, he is a PECT preceptor to pharmacy undergraduates at Audit and Licensing Division. He is also recipient of the 2018 SPC Excellent Preceptor Award.



Mr Marshall Liu

Associate Manager
WellAway E-Pharmacy

Marshall is the Associate Manager for WellAway, Singapore's first HSA-registered e-Pharmacy. Marshall heads the business and product development for WellAway and oversees the day-to-day e-Pharmacy operations.

As a Ministry of Health Holdings scholar, Marshall was previously a registered pharmacist in National University Health System and subsequently took up operational roles in Woodlands Health Campus.

He graduated from King's College London in Master of Pharmacy (M.Pharm.) and obtained a Post-Graduate Diploma in Web and Programming from Singapore Polytechnic.



Mr Hubert Suen

Pharmaceutical Officer
ActiveCare Group

Hubert is a young pharmacist who serves as the Pharmaceutical Officer of ActiveCare Pharmacy in Hong Kong. The pharmacy specialises in providing medication management and reconciliation services to care home residents. Hubert has been actively involved in the development and rollout of IT systems to ensure that the right drug gets given to the right patient, at the right dose and at the right time. This has proven to be especially important during the current COVID-19 pandemic which exacerbates the chronic staff shortages faced by care homes. Hubert graduated from the University of Sydney and gained his medication review accreditation in Australia before moving back to Hong Kong. He also serves as a part time lecturer at the Hong Kong Metropolitan University.

Symposium and Track Speakers



Dr Khee Giat Yeng

Senior Principal Clinical Pharmacist
Singapore General Hospital

Giat Yeng is a Singapore General Hospital pharmacist with a board certification in pharmacotherapy. She is a certified collaborative prescriber in inpatient glucose management, obesity management clinic and rheumatology monitoring clinic.

By formulating and implementing on-boarding training programmes and on-the-job training for community pharmacists, Giat Yeng prepares them for the provision of pharmaceutical care services in the community.

Giat Yeng had been trained as an ESTHER Coach since her induction into the ESTHER Network in 2016. She was subsequently appointed as ESTHER Champion for Pharmacy, the SingHealth ESTHER Network. As the innovation co-lead, she is responsible for identifying and nominating project leads for transformative person-centered initiatives to be scaled up, to improve internal or cross-sector processes and services.



Dr Soh Huimin

Senior Pharmacist (Clinical)
Tan Tock Seng Hospital

Huimin is a Senior Pharmacist (Clinical) from Tan Tock Seng Hospital (TTSH). She graduated from the National University of Singapore with a Bachelor of Science (Pharmacy) in 2012 and obtained her Doctor of Pharmacy (Pharm.D.) in 2018. She is also a Board-Certified Pharmacotherapy Specialist (BCPS).

Huimin's clinical responsibilities are in Internal Medicine and they span various settings from inpatient wards to the ambulatory care setting. She is the lead for the General Medicine Complex Care Pharmacist Clinic, where she leads a team in performing Medication Therapy Management for patients with multiple clinical needs. She is also the co-lead for PopMed, an initiative from TTSH Pharmacy which aims to improve transition of care between acute hospitals and the community. Regardless of practice setting, Huimin believes a person-centred approach is vital to improve patient's health literacy and medication adherence.



Mr Choo Yan Cheng

Senior Pharmacist
Watson's Personal Care Stores

Yan Cheng is a Senior Pharmacist with Watson's Personal Care Stores. He graduated from NUS with B.Sc. (Pharm) (Hons) in 2015 and obtained Board Certification in Geriatric Pharmacy (BCGP) in 2019. He is currently pursuing the NUS Graduate Certificate in Community based Geriatric Pharmaceutical Care.

In his work in eldercare, Yan Cheng has collaborated with nursing homes and senior activity centres to help improve medication usage.

He was the chairperson of the PSS Intermediate and Long-Term Care (ILTC) Pharmacists workgroup from 2019-2022.



A/Prof Doreen Tan

Associate Professor
Department of Pharmacy
National University of Singapore

A/Prof Doreen Tan is a cardiology specialist pharmacist who has spent over 20 years in Geriatrics and Cardiology-related work. She previously headed Khoo Teck Puat Hospital's Pharmacy Department, crossed to Corporate Development as Assistant Director of Value Office before joining National University of Singapore's Department of Pharmacy fulltime, attracted by the idea of how the integrated curriculum could change the face of pharmacy practice. She purposefully designed the undergraduate integrated Cardiovascular Science and Therapeutics module, introducing key changes to the undergraduate syllabus by bringing in blood pressure taking and electrocardiogram practicals to cement application and learning. As faculty advisor, Doreen led the design of the new NUS pharmacy undergraduate Pre-Employment Clinical Training Programme (PECT) 1 which spans across Years 1 to 3. Despite disruptions due to COVID-19, Year 2 students finally went on rotation at the National University Polyclinics in December 2021. She is an appointed member of the National University Health System Steering Committee for Pharmacogenomics, an appointed visiting Cardiology Specialist Pharmacist to NUH's Cardiology Department and co-lead for the B.Pharm. (Hons.) Student-led Collaborative Innovative Pharmacy Inquiry (SCI-Phi) Project.

Symposium and Track Speakers



Dr Tan Eng Hooi

Postdoctoral Research Assistant
Nuffield Department of Orthopaedics, Rheumatology and
Musculoskeletal Sciences
University of Oxford

Dr Tan Eng Hooi is a researcher interested in public health and pharmacoepidemiology. She worked as a clinical pharmacist for three years before pursuing further studies. She was awarded Master of Public Health from the University of Sydney and Ph.D. from the National University of Singapore. She is a postdoctoral researcher with the Pharmaco and Device Epidemiology group at the University of Oxford. In her role, she collaborates with international data partners to perform characterisation studies, drug utilisation research, and comparative effectiveness and safety analyses.



Dr Poon Jiat Ling

Director
Value, Evidence, and Outcomes
Eli Lilly and Company

Poon Jiat Ling, Ph.D. is a Director in Value, Evidence, and Outcomes at Eli Lilly and Company, responsible for the development of innovative and efficient patient-focused endpoints and measurement strategies to support drug development across Lilly's portfolio. Jiat Ling has over eight years of experience in patient-focused outcomes research in both consultancy and industry. Prior to her role at Eli Lilly and Company, she was a Research Scientist in Patient Centered Research at Evidera. Jiat Ling has a B.Sc. in Pharmacy from the National University of Singapore and received her doctorate in Pharmaceutical Economics and Policy from the University of Southern California.



Dr Michelle Lim

Associate Director, Clinical Program Operations
Exploratory Medicine and Pharmacology
Eli Lilly and Company

Dr Michelle Lim is currently an Associate Director for Clinical Program Operations at Eli Lilly and Company. Michelle was awarded the Industrial Postgraduate Ph.D. scholarship by the Economic Development Board of Singapore in 2011, and she received her Ph.D. from the National University of Singapore in 2015. Her doctoral research in resistance mechanisms and discovery of novel genes for Novartis' Phase IIb antimalarial drug candidate was published in peer-reviewed journals, including a first-author paper in Nature Microbiology. Michelle has been a registered pharmacist with the Singapore Pharmacy Council since 2011.

Pre-Congress Workshop Speakers



Ms Lee Poh Ling

Senior Pharmacist
National Healthcare Group Pharmacy

Poh Ling graduated with a Master of Pharmacy from University of Strathclyde, Glasgow, UK in 2006. She has been a pharmacist with National Healthcare Group (NHG) Polyclinic Pharmacy since September 2010. Poh Ling has an active interest in public health education and has delivered talks to the public on medication safety and smoking cessation. She is involved in the development of products and services to promote safe use of medications for patients. Poh Ling also runs Anticoagulation Clinic in the polyclinic to empower patients on the safe use of anticoagulants. She is also engaged in preceptorship of polytechnic students and NUS pharmacy students during their attachments.

Poh Ling attended a Plain Language Writing Course by Dr Audrey Tan and developed an interest in health literacy. Together with Sandra, they developed the Health Literacy Curriculum for NHG Pharmacy staff and is a strong advocate of making information simpler and clearer for patients to understand.



Ms Sandra Xu

Senior Pharmacist (Clinical)
National Healthcare Group Pharmacy

Ms Sandra Xu graduated with a Bachelor of Science (Pharmacy) (Honours) from the National University of Singapore in 2009. She has a Master's in Clinical Pharmacy and is a Board-Certified Ambulatory Care Pharmacist. She is a pharmacist in National Healthcare Group (NHG) Pharmacy and has an active interest in public education. In community settings, Sandra conducts talks to members of the public during events and continual education lectures to other healthcare professionals. She also runs anticoagulation and hypertension, diabetes, lipid (HDL) and Medication Therapy Management (MTM) clinics as part of an inter-professional care team for the patients. Sandra attended a Plain Language Writing Course by Dr Audrey Tan and developed an interest in health literacy. Together with Poh Ling, they developed the Health Literacy Curriculum for NHG Pharmacy staff and is a strong advocate of making information simpler and clearer for patients to understand.



Ms Low Suat Fern

Principal Pharmacist
Yishun Community Hospital

Suat Fern is an accredited Geriatric Specialist Pharmacist. She is currently heading the Pharmacy department in Yishun Community Hospital and is the deputy head at Yishun Health.

She set up the Geriatric Pharmacist Memory Clinic at Alexandra Hospital (the predecessor of Khoo Teck Puat Hospital (KTPH)) and has instituted the Pharmacist Outreach Programme through home visitations. She also piloted the Geriatric Integrated Medical Clinic at KTPH. She is currently leading the National Healthcare Group's cross-institution Health Literacy Workgroup.

At the national level, Suat Fern sits on various workgroups, namely the Pharmacy Specialists Accreditation Committee for Advanced Pharmacotherapy (Geriatrics), the National Pharmacy Residency Programme in Geriatrics, the Pharmacy Residency Examination Committee and the Pharmacy Specialist Accreditation Board.

Despite her hectic schedule, Suat Fern continues to contribute her time to the training of pre-registration pharmacists, Pharm.D. candidates and residents in Geriatrics. She is also active in delivering talks at the Senior Activity Centres in Yishun.



Ms Tang Xue Li

Pharmacist
Institute of Mental Health

Ms Tang Xue Li graduated from National University of Singapore with a Bachelor of Science (Pharmacy) in 2019. Upon graduation, she joined Institute of Mental Health (IMH) as a Pharmacist. During her time in IMH, she runs the Smoking Cessation service. She is also involved in formalising and improving the workflow for the Medication Delivery service amidst the COVID-19 pandemic. She is currently undergoing training for the Medication Management service. Xue Li was also trained as a Health Literacy trainer at NHG level and leads the Pharmacy team in IMH in health literacy-related matters.

Pre-Congress Workshop Speakers



Dr Wang Aiwen

Senior Principal Clinical Pharmacist
Singapore General Hospital

Dr Wang Aiwen graduated from the National University of Singapore (NUS) in 2007. In 2015, she completed her Pharm.D. from University of Chicago at Illinois and received the Board of Pharmacist Specialties Certification in Pharmacotherapy. She mainly practices as a drug information pharmacist at Singapore General Hospital, promoting evidence-based medicine practices through consultations, evidence-based reviews for the Pharmacy and Therapeutics Committee, and contributes to various research and educational activities. As a passionate and committed educator, she is also jointly appointed as a lecturer at NUS, where she teaches the next generation of healthcare professionals. Dr Wang also actively contributes to safe and effective medication practices through her various workgroup commitments at the hospital, healthcare cluster, and initiatives at the Ministry of Health. In 2020, she was awarded the AMEI Golden Apple Award (Young Educator) and the National Day Award – Efficiency Medal by the Prime Minister's Office.



Ms Tracy Zhang Yanxin

Senior Pharmacist
Woodlands Health

Ms Tracy Zhang Yanxin runs the Drug Information Service at Woodlands Health. Prior to this, she worked in the inpatient and community hospital settings and actively contributed to antibiotic stewardship efforts. At work, she is most proud of her team's spirit to rise to challenges together as they tackle drug enquiries, rationalise drug therapy choices and collaborate with clinicians when there are requests for adding new drugs to the formulary so as to establish safe medication use processes. She is also proud of their attention to detail in the process of helping to set up the national Next Generation Electronic Medical Record (NGEMR).



Dr Yeo Yan Ting

Principal Clinical Pharmacist
Singapore General Hospital

Dr Yeo Yan Ting is a Principal Clinical Pharmacist at Singapore General Hospital. She has ten years of experience and is still actively practicing in the realm of renal medicine in an acute tertiary care hospital. As a clinician educator, she is involved in Pharmacy Department education work and training of pharmacists, with a focus on training in pharmacotherapy in chronic kidney disease related conditions and renal transplants.



Ms Susan Tan

Certified Quit Smoking Consultant & Trainer

Susan has been working with Health Promotion Board since 2003 on Smoking Cessation counselling, workplace programmes and certification of trainers. She has been teaching Motivational Interviewing and EASY with SUSAN Health Coaching since 2015 and conducting continuing education talks to case managers, dentists, general practitioners and pharmacists.

Pre-Congress Workshop Speakers



Dr Nishant Garodia

Asia Pacific Medical Affairs Manager
Consumer Health
Johnson & Johnson

Nishant is a physician by training, with over 5 years of clinical experience and 8 years of experience in the Medical Affairs team. He shares relevant clinical evidence through forums to the industry and physician community. His passion lies in bringing a positive change to a patient's life.



Dr Ashita Bhatia

Oral Care Scientist
Asia Pacific R&D
Johnson & Johnson

Dr Ashita Bhatia is the head of Oral Care Scientific Engagement for Asia Pacific with Johnson & Johnson. She is currently also the R&D and Product Development & Deployment lead for Premium Oral Care for Asia Pacific. Trained as a Dentist, Ashita has lectured extensively at Dental Universities across the region including the National University of Singapore, Mahidol University in Thailand and Hong Kong University. Most recently, she was also invited as a guest on CNN on the show Med Talk, Health Talk to talk about the importance of oral health and mouthwash.



Dr Orawan Suitthimeathegorn

Medical Affairs Manager
Asia Pacific Skin Health
Johnson & Johnson

A pharmacy postgraduate, Orawan has more than 10 years of experience gained across multiple R&D disciplines in Singapore and the UK including regulatory affairs, clinical research, and formulation of personal care products. She provides medical and scientific expertise for Johnson & Johnson's skin health portfolio amongst consumers and healthcare professionals. Orawan obtained a Bachelor of Pharmacy from Chulalongkorn University, Thailand and a PhD from The School of Pharmacy, University of London, UK.



Asst Prof Raymond Wong

Senior Consultant
Department of Cardiology
National University Heart Centre

Assistant Professor Raymond Wong is currently a Senior Consultant in the Department of Cardiology, National University Heart Centre, Singapore. He also holds the appointment of Director of Clinical Services of Department of Cardiology, and Clinical Director of Nuclear Cardiology.

Asst Prof Raymond Wong graduated from the Yong Loo Lin School of Medicine, National University of Singapore in 1997. He obtained the Membership of the Royal Colleges of Physicians (United Kingdom) in 2002 and completed the Cardiology Advance Specialist training at the Cardiac Department of NUH in 2006. After that, Asst. Prof. Wong went on to the Cleveland Clinic, Ohio for advance fellowship in Heart Failure Transplantation, as well as Cardiac Imaging (Echocardiography and Nuclear Cardiology) in 2007-2008.

Asst Prof Wong has special research interests in the fields of heart failure and cardiomyopathy. In addition, he is involved in many quality improvement projects within the hospital.

Pre-Congress Workshop Speakers



Dr Dinna Soon

Senior Consultant Cardiologist
Lead, Heart Failure Service
Khoo Teck Puat Hospital

Dr Dinna Soon is a Senior Consultant Cardiologist and the lead for the Heart Failure Service at Khoo Teck Puat Hospital.

She graduated from University College London in 2001. She is a member of the Royal Colleges of Physicians of United Kingdom, and a Fellow of the Academy of Medicine, Singapore. After completing her Cardiology training, she went on to pursue the Heart Failure Fellowship at the Heart Failure and Transplant Unit at the well-known St Vincent's Hospital, Sydney.

Dr Soon has special interests in Heart Failure and Echocardiography.

Apart from clinical work, she is also actively involved in many local and international heart failure trials. She has had her research articles published in international medical journals, and presented her research at local and international platforms.



A/Prof Goh Su-Yen

Senior Consultant
Department of Endocrinology
Singapore General Hospital

A/Prof Goh is Head, SingHealth-Duke Diabetes Centre and Senior Consultant, Department of Endocrinology at Singapore General Hospital (SGH). She is also the Clinical Director of Future Health Systems at SGH, overseeing innovation and technology, analytics and future workforce. She holds concurrent posts as Clinical Associate Professor at Duke-NUS and Faculty in SingHealth Senior Residency (Endocrinology).

Dr Goh was the lead discussant for the Singapore Ministry of Health Appropriate Care Guides (ACGs) on "Oral pharmacotherapy for type 2 diabetes" and "Basal insulin therapy in type 2 diabetes" from the Agency for Care Effectiveness (ACE), MOH and was on the writing committees for the other diabetes ACGs.

She is actively involved in diabetes clinical trials including leading the Singapore team in CVD-REAL2, a landmark multinational RWE study in diabetes and cardiovascular outcomes. She is responsible for establishing SGH as the only centre in Asia offering DAFNE -- a self-management programme for people with type 1 diabetes. She also has an interest in health services research, digital technology and clinical service improvement and leads the Telemedicine and outpatient care transformation across SingHealth.



Adj Asst Prof Yeo See Cheng

Head of Department & Senior Consultant
Department of Renal Medicine
Tan Tock Seng Hospital

Dr Yeo See Cheng received his Medical Degree and Training from the National University of Singapore and Royal College of Physicians. He is currently the Head of Department of the Department of Renal Medicine in Tan Tock Seng Hospital, Singapore and an Adjunct Assistant Professor in Lee Kong Chian School of Medicine in Nanyang Technological University, Singapore. He is also a Clinical Lecturer in Yong Loo Lin School of Medicine of the National University of Singapore. He has been a member of various committees in the field of Nephrology and Research, has authored several published and unpublished research papers and has received scholarships and awards for research. He leads the Singapore Society of Nephrology, with the role of the Vice President.

Ms Guek Leng Loh¹,
A/Prof Doreen Su-Yin
Tan², Mr Brandon Kok
Joon Chong³, Dr Ganga
Ganesan⁴, A/Prof Mark
Yan Yee Chan⁵

¹Department of Pharmacy, Ng Teng Fong General Hospital, Singapore, Singapore. ²Department of Pharmacy, National University of Singapore, Singapore, Singapore. ³Saw Swee Hock School of Public Health, National University of Singapore, Singapore, Singapore. ⁴Ministry of Health, Singapore, Singapore. ⁵Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore

R2: Comparative Bleeding Outcomes Between P2Y12 Inhibitors in Acute Coronary Syndrome Patients on Dual Antiplatelet Therapy: A South-East Asian Database Study (SEA-DAPT)

Background/Aims

Compared to Caucasians, East Asian patients with acute coronary syndrome (ACS) have been reported to respond differently to P2Y12 inhibitors. We aim to explore the bleeding outcomes between P2Y12 inhibitors and the predictors for bleeding in the Singaporean Southeast Asian population with ACS.

Methods and Results

In this retrospective nationwide database cohort study, we compared the one-year bleeding outcomes of newly initiated P2Y12 inhibitors in 16,520 ACS patients who underwent coronary revascularisation between January 2013 and December 2017 (8,565 [52%] clopidogrel; 6,326 [38%] ticagrelor; 1,629 [10%] prasugrel). After propensity-score matching, compared to clopidogrel, ticagrelor was associated with an increased risk of any bleeding (Hazard Ratio (HR) 1.29, 95% Confidence Interval (CI) 1.11-1.50, $p=0.001$), particularly BARC Type 3 bleeding (HR 1.56, 95% CI 1.23-1.98, $p<0.001$), while prasugrel was associated with more respiratory/nasal bleeding (HR 6.03, 95% CI 2.09-17.38, $p=0.001$). No significant differences were observed in any bleeding between prasugrel and clopidogrel, or ticagrelor and prasugrel. Multivariate logistic regression analysis showed that age ≥ 65 years old, hyperlipidemia, chronic obstructive pulmonary disease (COPD) (surrogate for smoking), eGFR <30 ml/min/1.73m², anemia, prior bleeding within 6 months and concurrent oral anticoagulant use were independent predictors for bleeding. Compared to Chinese, Indians and Others were associated with lower risk of bleeding while Malays showed similar risk of bleeding. The risk of bleeding increased as the Charlson's Comorbidity Score increased.

Conclusion

Among Southeast Asian patients with ACS, ticagrelor was associated with an increased risk of BARC Type 3 and any bleeding while prasugrel was associated with increased respiratory/nasal bleeding, when compared to clopidogrel. Predictors for bleeding were older patients, hyperlipidemia, COPD, severe chronic kidney disease, anemia, recent bleeding and concurrent oral anticoagulant use. Bleeding risk was lower in Indians and Others, but not in Malays, when compared to Chinese.

Ms Carolyn Ho¹,
Mrs Ng-Hong Mok
Shiang², Dr Camilla
Wong¹, A/Prof Lita Chew¹

¹Ministry of Health,
Singapore, Singapore.
²National Healthcare
Group Pharmacy,
Singapore, Singapore

E1: The First Year: Implementation of Pharmacy Technicians Entry-to-Practice Competency Assessment Framework (2021/22)

Introduction

The Pharmacy Technicians Entry-to-Practice Competency Assessment Framework was developed to ensure graduates who are planning to join the health care sector achieve the minimum competency requirements at recruitment. The framework was developed by the ministry-appointed Pharmacy Technicians Training and Development Committee (Pharm Tech TDC). The first batch of students to undergo the assessments at polytechnics and healthcare institutions graduated in May 2022. This presentation reports the results and insights gathered from the first implementation year.

Methods

A set of assessment tools were co-created by Pharm Tech TDC with educators and practitioners. Training workshops were conducted for onboarding of preceptors ahead of the internships. An implementation guide with assessment tools, training plans and sample questions was published. At the end of the year, surveys were conducted to gather feedback from students and preceptors. The results of the assessments were consolidated by schools for review at Pharm Tech TDC.

Results

190 students from 4 polytechnics were assessed during internships at 17 healthcare institutions. The results from the assessment checklists indicated that over 80% of the students were rated as competent for at least 4 out of 6 Key Tasks. 606 multisource feedback informed the ethical and behavioral aspects, as well as assessors' interest to recruit the students. Through online surveys, 64 preceptors and 117 students provided feedback on their experiences and challenges faced. 84.5% agreed that the assessment checklists satisfactorily evaluate students' abilities to fulfil the 6 Key Tasks.

Discussion

The assessment tools are useful to support implementation of the framework. There is a need to address the challenge of training students to perform physical medication reconciliation and sale of General Sales List/ Pharmacy-Only medications during internships. Continued collaboration among key stakeholders is key to ensure successful implementation and progress. Longer term monitoring is required to evaluate the outcome and impact.

Dr Sreemanee Raaj
Dorajoo, Ms Pei San Ang,
Mr Desmond Chun Hwee
Teo, Ms Michelle Sau
Yuen Ng, Mr Chih Tzer
Choong, Ms Doris Sock
Tin Phuah, Ms Dorothy
Hooi Myn Tan, Ms Filina
Meixuan Tan, Ms Maggie
Siok Hwee Tan, Ms
Jalene Poh

Health Sciences Authority,
Singapore, Singapore

I8: Risk Classification Tools for Prioritising the Management of Quality Issues Relating to Substandard Medicines in Singapore

Introduction

Substandard medicines are medicines that fail to meet their quality standards and/or specifications. These can lead to serious safety issues. Product defect reporting of substandard medicines facilitates identification of such issues, and ensure measures are implemented to protect public health.

Methods and Results

To embrace digital tools to improve efficiency, the HSA Vigilance and Compliance Branch developed an online therapeutic product defect risk classification tool in May 2019 to guide companies on product defect reporting. This tool is a decision tree matrix to classify the defect based on its potential impact on safety. It guides companies on when to report defect to HSA and whether the defect is considered critical that requires prompt action. This assists companies to plan and strategise their proposed actions.

HSA recognises each incident of defect is unique as the hazard to patients may depend on various factors. In December 2021, HSA developed a regulatory risk impact prioritisation model for substandard medicines to sieve out cases with potentially higher public health risks. A statistical approach was applied to the model which emphasised four key product- and defect-related factors that could predict the likelihood of an issue turning into one that carries high public health risks. This statistical model was validated against labelled gold standard cases from 2020 to 2021 and achieved improved sensitivity (94% vs 42%) and positive predictive value (47% vs 43%) for the identification of high impact cases. This model is available as a R Shiny app.

Conclusion

As far as we are aware, the Product Defect Risk Classification Tool is first of its kind and no drug regulatory agency has this tool made available to industry. HSA has identified four factors that would help to determine the critical characteristics of substandard medicines associated with high public health impact and for case prioritisation.

Best Poster Finalists

S/N	Category	Title	Presenting Author	Institution
E4	Education or Training	Pharmaceutical Care Services: Medication Management Resources for Caregivers, Patients, and Volunteers in the Community	Mr Soo Ying Zhou	National Pharmacy Programme Management Office, Ministry of Health, Singapore
E5	Education or Training	Student and Facilitator Feedback on the Inaugural Pre-employment Clinical Training Programme I at National University Polyclinics (NUP) for Year 2 NUS Pharmacy Undergraduates	Dr Leroy Koh	National University of Singapore, Singapore
E7	Education or Training	A Health Literacy “Train-the-Trainer” Program for Pharmacists in Public Education Work	Dr Yap Kai Zhen	National University of Singapore, Singapore
I9	Industry or Regulation	Singapore National Pharmacy Residency Program Accreditation – Processes & Outcomes	Mr Lim Teong Guan	Singapore General Hospital, Singapore
O12	Others (including COVID-19 Related)	Implementation of Bin Code Location to Reduce Pharmacy Near Misses in Bedok Polyclinic	Ms Toh Li Mei	SingHealth Polyclinics, Singapore
O14	Others (including COVID-19 Related)	Development of a Consolidated Dosing List for Topical Medications Prescribed for Paediatric Patients at SingHealth Polyclinic – Pasir Ris	Ms Ooi Swee Phaik	SingHealth Polyclinics, Singapore
P15	Practice Innovation	Clinical Utility of Thiopurine Metabolite Monitoring in Inflammatory Bowel Disease and Its Impact on Healthcare Utilization in Singapore	Ms Amanda Wong	Singapore General Hospital, Singapore
P16	Practice Innovation	Pharmacist-led Immunomodulator Clinic in Titration and Monitoring of Immunosuppressants in Inflammatory Bowel Disease in Singapore General Hospital	Dr Valerie Ng	Singapore General Hospital, Singapore
P17	Practice Innovation	Automated Batching and Collation of Data from Patient Input (ABCD PI) Sources for Efficient Medication Delivery Service	Mr Tiew Wen Jun	Changi General Hospital, Singapore

Best Poster Finalists

S/N	Category	Title	Presenting Author	Institution
P18	Practice Innovation	Quantifying Chemotherapy Wastage and Exploring the Development of a Chemotherapy Wastage Calculator in an Ambulatory Cancer Centre	Mr Peter Yap	National Cancer Centre Singapore, Singapore
P19	Practice Innovation	Can early Medication Review in Patients with Polypharmacy Improve Clinical Outcomes?	Mr Gan Boon Sing	Tan Tock Seng Hospital, Singapore
P20	Practice Innovation	Pharmacists' Impact in ACS and HF Patients at Outpatient and Transition-of-care Settings	Ms Louise Amelia Sugiri	National University of Singapore, Singapore
R21	Original Research	Chronic Medication Burden in Young Survivors of Pediatric Cancer: A Retrospective Analysis Using a Population-Wide Electronic Database in Hong Kong	Dr Cheung Yin Ting	The Chinese University of Hong Kong, Hong Kong
R22	Original Research	Preferences for the Format and Content of Prescription Medication Labels among Older Adults – A Discrete Choice Experiment and Best-Worst Scaling Study	Ms Sumithra Suppiah	Duke-NUS Medical School, Singapore
R23	Original Research	Functional Health Literacy and Its Correlates: Findings from a National Survey of Older Adults in Singapore	Ms Sumithra Suppiah	Monash University, Warragul, Victoria, Australia and Duke-NUS Medical School, Singapore
R24	Original Research	Impact of Medication Information Leaflets on HealthHub	Dr Yap Kai Zhen	National University of Singapore, Singapore
R25	Original Research	Walking a Thin Line: Comparing Outcomes in Clopidogrel and Ticagrelor in Asian Acute Coronary Syndrome Patients with or without High Bleeding Risk	Mr Tan Seh Yi, Joseph	National University of Singapore, Singapore

Best Abstracts (Pharmacy Technicians)

S/N	Category	Title	Presenting Author	Institution
O79	Practice Innovation	Improving the Safety and Efficiency of Hospital-to-vendor Handover Process of Medication Delivery Service (MDS)	Mr Abdul Kadir Abd Gafar	Tan Tock Seng Hospital, Singapore
P80	Others (including COVID-19 Related)	Implementation of PillTopup System to Improve User Accessibility, Usage and Minimize Error Occurrence in Tan Tock Seng Hospital Basement 2 Outpatient Pharmacy	Ms Sara Chang	Tan Tock Seng Hospital, Singapore

Congress Exhibitors

Deluxe Booths

GALDERMA

EST. 1981

Galderma Singapore

With a unique heritage in dermatology, Galderma has distinguished itself as one of the few players capable of inventing, developing and bringing truly innovative dermatological solutions to the market. Galderma has three integrated business units – Aesthetics, Consumer Care and Prescription Medicine – that manage a unique portfolio of products to meet the needs of every individual and consumer with superior outcomes. By collaborating with trusted healthcare professionals, Galderma aspires to advance dermatology for every skin story.



Procter & Gamble (Singapore)

We produce globally recognised brands and we grow the best business leaders in the industry. With a portfolio of trusted brands as diverse as ours, it is paramount that our leaders are able to lead the vast array of brands, categories, and functions with courage. We serve consumers around the world with one of the strongest portfolios of trusted, quality leadership brands, including Neurobion®, Sangobion®, Vicks®, Cebion®, Iliadin®, Ariel®, Gillette®, Head & Shoulders®, Herbal Essences®, Oral-B®, Pampers®, Pantene®, Tampax® and more. Our community includes operations in approximately 70 countries worldwide. Visit <http://www.pg.com/> to know more.

Regular Booths



AstraZeneca Singapore

AstraZeneca is a global, science-led biopharmaceutical company that focuses on the discovery, development and commercialisation of prescription medicines, primarily for the treatment of diseases in five therapy areas – Oncology; Cardiovascular, Renal & Metabolism; Respiratory & Immunology; Vaccines & Immune Therapies and Rare Disease.

Based in Cambridge, UK, AstraZeneca operates in over 100 countries and its innovative medicines are used by millions of patients worldwide.

AstraZeneca Singapore is one of Singapore's leading biopharmaceutical companies that aims to make a difference in the healthcare industry by touching and saving as many lives as possible through innovation in the scientific medical field.



DCH Auriga (Singapore)

DCH Auriga is an Asia-based integrated market management provider specialising in healthcare. For over 50 years, we have partnered with world-leading companies to bring essential pharmaceutical and life science offerings to Asia. Our comprehensive commercial and logistics solutions enable our partners to access market opportunities in Asia and help deliver the best possible care to those in need. Having a synergistic set of product portfolios across pharmaceuticals, medical devices, consumer healthcare and nutritional health positions us strongly for optimal operations and procurement efficiency. Our agile approach to market management enables us to respond faster to customer needs and stay ahead of rapidly changing market conditions. Our partners appreciate that and so will you.



Good Pharma Dermatology

Suu Balm is a range of skincare products formulated by the National Skin Centre (NSC), Singapore's Dr Tey Hong Liang, an Associate Professor who runs the Itch Clinic at the NSC. Our range of products aims to target itch and dryness in a fast and effective way by combining menthol and high-quality, skin-identical ceramides in our moisturisers, as well as having ultra-clean and gentle ingredients in our washes. To date, Suu Balm has sold over 1.5 million products worldwide and has expanded its range for specific areas such as the scalp and face to cater to everyone: from babies to senior citizens.

Congress Exhibitors

Regular Booths



ICM Pharma

ICM Pharma is among Singapore's largest homegrown pharmaceutical manufacturers and was cGMP-certified by the Ministry of Health in the 1980s. ICM Pharma produces and markets a wide range of pharmaceuticals, Over-the-Counter (OTC), and personal care products that include external and internal preparations such as liquids, semi-solids and powders.

Under the flagship of PharmaKoe, specialty medicines are supplied through global in-licensing. ICM Pharma is one of the leading suppliers to public and private healthcare institutions, clinics and pharmacies in Singapore.

The group is setting its footprint in the space of innovation in the Biotech sector through its collaboration with Alloksys Life Sciences BV, Netherlands.



Office of Residency Training (representing Ministry of Health Singapore)

Pharmacy residencies are experiential clinical training programmes that are designed for pharmacists to gain hands-on knowledge and skills in advanced patient care practice. The broad-based R1 residency programme is designed for training of advanced clinical pharmacy practitioners and the specialty R2 residency programmes are designed for training pharmacy specialists in oncology, infectious diseases, psychiatry, cardiology, geriatrics, critical care or paediatrics.



Pfizer

At Pfizer, we apply science and global resources to bring therapies that extend and significantly improve lives. We strive to set the standard for quality, safety and value in the discovery, development and manufacture of healthcare products. Pfizer colleagues work to advance wellness, prevention, treatments and cures that challenge the most feared diseases of our time. Consistent with our responsibility as an innovative biopharmaceutical company, we collaborate with healthcare providers, governments and communities to support and expand access to reliable, affordable healthcare around the world. For more than 170 years, we have worked to make a difference. Learn more at www.Pfizer.com.sg and <https://www.facebook.com/PfizerSG/>.



Pharmaceutical Society of Singapore

The Pharmaceutical Society of Singapore (PSS) is a non-profit professional organisation representing pharmacists in Singapore. It is steered by an elected council comprising a President and 11 Council Members. Our membership comprises pharmacists practicing in the community; hospital; marketing, sales, & distribution; and academic sectors.

The mission of the PSS is to "Maximise the contribution of pharmacists to the healthcare of Singaporeans". We have adopted a two-pronged strategy – to upgrade pharmacists professionally and to reach out to the public through health education programmes. The Society aims to provide Singaporeans with high quality pharmaceutical services, which emphasise safe, efficacious and cost-effective drug treatments.



Teva Pharmaceutical Investments Singapore

Teva, a global pharmaceutical leader and the world's largest generic medicines producer, is committed to putting people at the center of what we do. By building on our strong global footprint and harnessing our size and scale, we are increasing access to quality health solutions to enable millions of people around the world to live better, healthier days. We do this by developing and producing affordable, high quality generic drugs, innovative specialty pharmaceuticals and active pharmaceutical ingredients.

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