

in conjunction with 20th Anniversary of the Clinical Research Centre, Sarawak General Hospital & Sarawak State Research Day

"Quantum Leap in Research Leadership"



PROGRAMME BOOK

VENUE: WATERFRONT HOTEL, KUCHING, SARAWAK DATE: 20-22 SEPTEMBER 2023

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Foreword DEPUTY SECRETARY-GENERAL(FINANCE) OF HEALTH



It is with great pleasure I welcome all of you to the 16th National Conference for Clinical Research, which coincides with the 20th Anniversary of the Clinical Research Centre of Sarawak General Hospital and Sarawak State Research Day. Research leadership requires a constant vigilance, unwavering dedication, a thirst for knowledge, and above all, a vision for a healthier future. The ability to influence, innovate and implement research findings is what separates research leaders from the rest, and it is this distinction that we celebrate and foster at this conference.

Recognising the importance of research in policy development, the World Health Organization (WHO) has placed a significant emphasis on evidence-based decision-making. The recent Health White Paper produced by Ministry of Health has unequivocally emphasized the pivotal role of research in transforming healthcare systems. By investing in research, we not only foster advancements in medical knowledge and technologies but also pave the way for policy reforms that enhance healthcare access, affordability, and quality.

I am pleased to announce that the Ministry of Health has pledged its support by allocating approximately RM8 million for the next year under a new cluster aptly named Clinical Trial Cluster. These grants are intended to fully support enthusiastic and bright investigators in conducting investigator-initiated trials (IITs). These IITs allow for our own homegrown investigators to conduct high quality interventional studies that will be used for evidence-based policy making. I encourage each and every one of you to seize this opportunity to pursue clinical research in the 4 domains namely prevention, diagnosis, treatment and disease monitoring.

The importance of research leadership is evident - now more than ever. It is at the heart of our fight against existing and emerging health threats. It is central to our quest for improving healthcare quality and accessibility. It is pivotal in turning the promise of Health White Paper into reality. This conference represents an opportunity to equip our current and future leaders with the knowledge, skills and vision to successfully navigate the rapidly evolving landscape of clinical research. I am confident that the discussions and collaborations sparked here will lead to quantum leaps in our collective quest for better health.

I am proud of the commitment and dedication shown by everyone involved in clinical research. I look forward to hearing the new ideas and innovations that will emerge from this conference, and the positive impact they will have on our healthcare system and, ultimately, on the lives of our citizens.

YBhg. Dato' Sri Norazman AyobDeputy Secretary-General (Finance)
Ministry of Health

Foreword DIRECTOR-GENERAL OF HEALTH





The National Conference of Clinical Research (NCCR) has consistently provided a national platform for researchers, academicians, clinicians, and healthcare providers to gather and exchange insights on clinical research updates, which are essential to inform evidence-based policies and decision-making in healthcare. In recent years, the importance and impact of clinical research have become increasingly evident, especially during the pandemic and now with the ongoing endemicity of COVID-19. As John C. Maxwell once quoted, "Anyone can steer the ship, but it takes a leader to chart the course". This notion underscores the crucial role of effective leadership in clinical research, mainly as the catalyst for conducting high quality and meaningful research.

The 16th NCCR, with the theme of "Quantum Leap in Research Leadership", pays a special tribute to Sarawak General Hospital (SGH), as it is celebrating the 20th Anniversary of the Clinical Research Centre. Despite its humble beginning in the Land of the Hornbills, CRC SGH has continuously exemplified clinical research excellence with its clear strategic vision and effective leadership. CRC SGH has taken a quantum leap by conducting the first ever First-In-Human trial in Malaysia this year, and we proudly applaud this significant milestone achievement for the nation.

At the 76th World Health Assembly held in Geneva last May 2023, we also explored collaboration prospects on various research fronts aligned with Malaysia's priorities, such as digital health, mental health, public health and primary care. Digital health, one of the key areas attracting our attention, is important to ensure equitable healthcare access and universal health coverage. Future collaborations will not only bring us new knowledge and experiences but also hold promising prospects for economic gains in Malaysia.

We are honoured to welcome distinguished speakers and experts in multiple fields to shed light on their research areas. We believe their presentations will be eye-opening and beneficial for all conference delegates. Heartiest congratulations to the conference committee for putting together a robust scientific programme. As you delve into the realm of clinical research, we encourage you to seize this opportunity to network with like-minded individuals and enjoy the conference!

Thank you all for your participation, and we wish you a successful and fulfilling conference experience.

Datuk Dr. Muhammad Radzi Bin Abu Hassan Director-General Ministry of Health Malaysia

Foreword



DEPUTY DIRECTOR-GENERAL OF HEALTH



It is with great pleasure that I welcome you to the 16th NCCR 2023. Each year, this renowned national conference brings together brilliant minds from various clinical research fields to share ideas and thoughts on their latest findings. Incorporating this year's theme "Quantum Leap in Research Leadership", we explore the journey of visionary researchers who are unafraid to think out of the box and transcend boundaries in their relentless pursuit of scientific discovery.

I would like to extend my heartfelt congratulations to our very own Clinical Research Center Sarawak General Hospital (CRC SGH) for the successful dosing of the first oncology patient in the First-in-Human trial. This groundbreaking accomplishment marks a momentous milestone for clinical trials in Malaysia. What makes it even more meaningful is that this achievement aligns with the 20th anniversary of CRC Sarawak General Hospital. The transformation of a humble research office into a world-class clinical research ward, equipped with their own ISO certified laboratory sets a very good example of power of effective leadership in clinical research in fostering growth and unlocking the full potential of researchers. Through collaboration, they have achieved what was once considered far-reaching or even impossible.

We have gathered some of the brightest minds and talented researchers from around the world for this conference. From captivating keynote addresses and thought-provoking plenaries to interactive workshops and insightful symposiums, this conference will provide a vibrant platform for knowledge sharing, idea exchange, and network building. As we engage in this collective endeavour, let us remember that the quantum leap in research leadership is not solely about scientific progress; it is about inspiring and shaping a better world for future generations.

Lastly, I hope this conference will serve as a catalyst, inspiring all participants to aspire to be better leaders in their respective research fields and continuously reach new heights in your careers. Together, we can drive positive change and make significant contributions to the advancement of clinical research. Let us seize this opportunity to learn, connect, and forge a brighter future.

Thank you, and I wish you all a productive and inspiring conference experience.

Datuk Dr. Nor Fariza binti Ngah Deputy Director-General (Research & Technical Support) Ministry of Health Malaysia

Foreword **ORGANISING CHAIRPERSON**





For the first time ever, the National Conference for Clinical Research (NCCR) carries greater meaning. As a public health physician, I humbly lead by example, echoing the resonating conference theme of "Quantum Leap in Research Leadership." The theme of our conference represents our collective aspiration to push the boundaries of knowledge and innovation in the realm of clinical research. It symbolises our determination to take a giant leap forward in our pursuit of transformative breakthroughs that will shape the future of healthcare. The conference will also be held in conjunction with the momentous 20th Anniversary of the Clinical Research Centre, Sarawak General Hospital and the Sarawak State Research Day.

We have meticulously curated an exceptional lineup of esteemed speakers and experts who will share their invaluable insights, experiences, and cutting-edge research findings. Our program encompasses a diverse range of topics, including advancements in medical therapeutics, novel methodologies, and the ever-evolving role of leadership in research.

We are fortunate to be living in an era where scientific discoveries are flourishing at an unprecedented pace. From groundbreaking treatments to revolutionary diagnostic tools, the landscape of clinical research is constantly evolving. However, with progress comes the responsibility to foster effective research leadership that can harness the full potential of these advancements and translate them into tangible benefits for patients around the world.

As we embark on this remarkable journey together, I urge you to make the most of this conference. Engage in the lively discussions, challenge conventional wisdom, and explore novel perspectives. Let us remember that our collective efforts today will have a lasting impact on the future of clinical research and, ultimately, on the lives of those we strive to serve.

Thank you, and I wish you all a fruitful and memorable conference experience!

Datin Dr. Sheamini Sivasampu Director Institute for Clinical Research National Institutes of Health Ministry of Health Malaysia

Foreword ORGANISING CO-CHAIRPERSON





Congratulations to the organizers of the NCCR for hosting a remarkable event that is held in conjunction with the 20th Anniversary of the Clinical Research Centre, Sarawak General Hospital (SGH) as well as Sarawak State Research Day.

Indeed, Malaysia has come far from where we began. We can be proud of the research team including investigators at all MOH sites that has relentlessly push boundaries to place the country on the global clinical trial map through the multiple recruitment achievements. SGH has now become the go-to site for First-in-human (FIH) trials and their capabilities is showcased with the recognition of being the first site in APAC to dosed the first patient in its FIH study.

The success of good study quality, delivery and recruitment is also contributed by the leaderships at ICR and the respective CRCs. The theme of this year's NCCR conference is hence very apt to demonstrate how great leaderships can impact the whole management and process of clinical research.

Use the NCCR platform to build your network, share ideas and start new collaborations that could potentially unlock new possibilities, progress our research endeavours and foster an environment of shared growth and mutual learning.

In summary, the principles of humanity, sustainability and stability are vital for successful and impactful clinical research. Clinical trials address medical needs, offering innovative treatments that improve patient health. Stability ensures reliable and high-quality research outcomes. By following core values, a code of conduct, and operational excellence, clinical research promotes long-term business sustainability. Embracing these principles allows the field to continue advancing medical knowledge, benefiting patients, society, the environment, and the future of healthcare.

Thank you.

Dr. Akhmal YusofChief Executive Officer
Clinical Research Malaysia

Foreword NCCR SCIENTIFIC COMMITTEE CHAIRPERSON



The 16th National Conference for Clinical Research 2023, held in conjunction with the 20th anniversary of the establishment of the Clinical Research Centre, Sarawak General Hospital and the Sarawak State Research Day carries a theme that resonates with what Clinical Research means today for Malaysia – a quantum leap in research leadership.

In recent years, the Institute for Clinical Research, together with its 37 Clinical Research Centres at Hospital level, achieved significant progress by generating data and providing vital information that shapes clinical care and health policy.

The 16th NCCR embodies all that is exciting and relevant to clinical research today, drawing upon the experience and skills of all stakeholders. This will be reflected in the scientific and social programme – incorporating cutting edge topics and novel approaches to clinical research, delivered by a world class Faculty, over 3 days.

On behalf of the Organising Committee, I welcome you to the 16th NCCR in Kuching, in the Land of the Hornbills.

Dr. Alan Fong

Consultant Cardiologist Head of Clinical Research Centre Sarawak General Hospital, Sarawak Malaysia

in conjunction with 20th Anniversary of the Clinical Research Centre, Sarawak General Hospital & Sarawak State Research Day



QUANTUM LEAP IN RESEARCH LEADERSHIP

COMMITTEE MEMBERS

Organising Chairperson: Datin Dr. Sheamini SIVASAMPU

Organising Co-Chairperson : Dr. Akhmal YUSOF

Scientific Committee Chairperson : Dr. Alan FONG

Scientific Committee Co-Chairperson : Dr. Damenthi NAIR

Secretary: Dr. Sharon NG Shi Min

Dr. Norizan ROSLI Ms. TIONG Lee Len

Secretariat for Scientific Committee Dr. TOH Teck Hock

Dr. Jack WONG Siew Yu

Dr. Jeremiah DING Deck Shen

Ms. CHUN Geok Ying Ms. PANG Lai Hui

Ms. CHEAH Kit Yee

Ms. LEE Yi Lin

Mr. CHEW Chun Keat

Scientific reviewers: Mr. LAW Kian Boon

Dr. Masliyana bt HUSIN

Dr. LOO Ching Ee

Ms. CHUN Geok Ying

Dr. LAI Wei Hong

Ms. Stella CHUO Sing Hong

Mr. Kamarudin AHMAD

Secretariat for Organising Committee

Dr. Aimi Nadiah Binti JAMEL

Ms. Kamilah DAHIAN

Dr. Patrick LIM Soo How

Dr. TAN Shu Zhen

Dr. Aisyah Binti MOHD NORZI

Ms. Rozila Binti HARUN

Mr. Muhammad Zul Faris Bin MOHD NOOR

Ms. Zuriah Binti SARKAWI

PROGRAMME



20 SEPTEMBER 2023 (WEDNESDAY) NCCR

/A I	_	SER 2020 (WEDNESDAI)
ГІМЕ	CONFERENCE	WORKSHOP
0800	Arrival and registration of delegates	
0830	Keynote 1: Digital Health: New Opportunities for Research a	and Improvement in Clinical Care
	Professor Dr. Patrick THEN	
	Director, Centre for Digital Futures Swinburne University of Technology, Sarawak Car	mnus
	Malaysia	npus
0900	Plenary 1:	
	ASTRAZENECA	
	The Evolving Therapeutic Landscape of Complem	nent-Mediated Rare Diseases
	Dr. CHEW Lee Ping	
	Consultant Haematologist Head of Haematology Department	
	Deputy Head of Clinical Research Centre	
	Sarawak General Hospital, Sarawak	
	Malaysia	
	Moderator:	
	Datin Dr. Sheamini SIVASAMPU	
	Director	
	Institute for Clinical Research National Institutes of Health	
	Ministry of Health Malaysia	
0930	Plenary 2:	
	Translational Research: A Clinician-Scientist's Jou	irney
	Associate Professor Dr. Mark Y. CHAN	
	Deputy Director	
	Cardiovascular Research Institute (CVRI) and Card	
	Research Program, National University of Singapo Singapore	re (NOS)
1000	Tea break, networking and poster viewing	
1000	Symposium 1:	Workshop 1:
	Non-Communicable Diseases(NCD)	Why Sample Size Matters?
1030	Neuroprotective Activities of Palm Vitamin E	Dr. Mohamad Adam BUJANG
	Tocotrienols	Research Officer and Statistician
	Professor Emeritus Dr. YUEN Kah Hay	Clinical Research Centre
	School of Pharmaceutical Sciences	Sarawak General Hospital, Sarawak
	Universiti Sains Malaysia (USM), Penang Malaysia	Malaysia
	Ividiayold	

1055	Environmental Health and NCD Disease Burden
	Professor Dr. Jamal Hisham HASHIM
	Professor of Environmental Health
	Universiti Selangor (UNISEL)
	Director of Provenue Corporation, Selangor
	Malaysia
1120	Q&A
	Moderator:
	Dr. Jack WONG Siew Yu
	Public Health Physician
	Head of Clinical Research Centre
	Director of Miri Hospital, Sarawak
	Malaysia
1130	Plenary 3:
	Clinical Research at the Heart of a Pandemic – ICR's Local and Global Impact
	Datuk Dr. Kalaiarasu M. PEARIASAMY
	Former Director
	Institute for Clinical Research
	National Institutes of Health
	Ministry of Health Malaysia
1200	Plenary 4:
	NOVARTIS
	Research Collaboration- A New Frontier
	Research Collaboration- A New Frontier
	Dr. Balraj SETHI
	Head of Medical Affairs
	Novartis Corporation (M) Sdn. Bhd.
	The same and the s
1230	Lunch Panel Discussion:
	ROCHE
	Digital Registry
	❖ Datuk Dr. Nor Fariza NGAH
	Deputy Director-General of Health
	(Research & Technical Support)
	Ministry of Health Malaysia
	❖ Dr. Nuraidah MOHD MARZUKI
	Deputy Director at Health Informatics Centre
	Public Health Physician
	Ministry of Health, Malaysia
	❖ Dr. Adibah ALI
	Consultant Breast and Endocrine Surgeon
THE RE	Department of Surgery
	Sarawak General Hospital, Sarawak
	Malaysia

	❖ Dr. LIEW Houng Bang Consultant Physician and Cardiologist Head of Cardiology Department Head of Clinical Research Centre Queen Elizabeth II Hospital, Sabah Malaysia Moderator: Dr. Mohan Dass PATHMANATHAN Research Medical Officer	
	Digital Health Research & Innovation Unit (DHRi) Institute for Clinical Research National Institutes of Health Ministry of Health Malaysia	
1310	Break	
	Symposium 2: Infectious Diseases	Workshop 2: Writing a Research Protocol
1400	Melioidosis Dr. Anand Mohan MOHANA LAL Consultant Paediatrician Head of Paediatrics Department Deputy Head of Clinical Research Centre Bintulu Hospital, Sarawak Malaysia	Ms. Norazida AB RAHMAN Research Pharmacist Centre for Clinical Outcome Research Institute for Clinical Research National Institutes of Health Ministry of Health Malaysia
1425	Herpes Simplex Encephalitis Dr. Jeffrey LEE Soon Yit Research Medical Officer Clinical Research Centre Sibu Hospital, Sarawak Malaysia	Dr. LAI Wei Hong Research Officer and Quality Assurance Manager Clinical Research Centre Sarawak General Hospital, Sarawak Malaysia
1450	Q&A	
	Moderator: Dr. WONG Toh Mee Consultant Physician Deputy Head of Clinical Research Centre Sibu Hospital, Sarawak Malaysia	
1500	Tea break, networking and poster viewing	
	Symposium 3: Oncology	Workshop 3: How to Best Present a Scientific Poster
1530	Improving Outcomes through Early Phase Research Dr. VOON Pei Jye Consultant Medical Oncologist Head of Radiotherapy and Oncology Departments Sarawak General Hospital, Sarawak Malaysia	Professor Dr. TOH Teck Hock Consultant Paediatrician Head of Clinical Research Centre Sibu Hospital, Sarawak Malaysia

1555	Revolution in Treatment of Haematology Diseases Dr. CHEW Lee Ping Consultant Haematologist Head of Haematology Department Deputy Head of Clinical Research Centre Sarawak General Hospital, Sarawak Malaysia	
1620	Q&A Moderator: Dr. Alan FONG Consultant Cardiologist Head of Clinical Research Centre Sarawak General Hospital, Sarawak Malaysia	
1630	Plenary 5 Ministry of Health Malaysia Biobank Dr. Hans Prakash SATHASIVAM Head of Biobank Unit Institute for Medical Research National Institutes of Health Ministry of Health Malaysia	
1700	Adjourn	

PROGRAMME





1135	Doa recital
	Opening Ceremony:
	❖ 16th National Conference for Clinical Research
	 20th Anniversary of Clinical Research Centre, Sarawak General Hospital
	❖ Sarawak State Research Day
1145	Welcoming Address by Organising Chairperson Datin Dr. Sheamini SIVASAMPU
	❖ Director
	Institute for Clinical Research
	National Institutes of Health
	Ministry of Health Malaysia
1155	Opening Remarks by YB. Dato. Sri Professor Dr. SIM Kui Hian
	❖ Deputy Premier of Sarawak
	Minister for Public Health, Housing and Local Government
1205	Officiating Speech and Launch by YB Dr. Zaliha MUSTAFA
	❖ Minister of Health Malaysia
1245	MoU signing between National Institutes of Health (NIH), Ministry of Health
	(MOH) and Sarawak Infectious Disease Centre (SIDC)
1255	Photo session for VIPs & Head of CRCs
1300	Lunch Symposium: PFIZER
	PFIZER
	COVID-19 Vaccination and Treatment: What's the Way Forward?
	Dr. CHUA Hock Hin
	Consultant Infectious Disease Physician
	Head of Infectious Disease Department Sarawak General Hospital, Sarawak
	Malaysia
1340	Break
1400	Dr. Wu Lien-Teh Young Investigator Award Oral Presentation 5 Research Finalists Judges:
	❖ Datuk Dr. Kalaiarasu M. PEARIASAMY
	Former Director
	Institute for Clinical Research
	National Institutes of Health
	Ministry of Health Malaysia
	William y of Fleater Walaysia
	Professor Datu Dr. Andrew Kiyu Dawie anak USOP
	Professor of Public Health
	Faculty of Medicine and Health Sciences
	Universiti Malaysia Sarawak (UNIMAS), Sarawak
	Malaysia
	❖ Dr. Kalwinder Singh KHAIRA
	Consultant Physician
	Consultant i nysician

	Head of Medical Department Sarawak General Hospital, Sarawak	
	Malaysia	
1530	Tea break, networking and poster viewing	Dr. Wu Lien-Teh Research Award Poster Presentation 5 Research Finalists Judges:
		 Dr. NGIAN Hie Ung Director Sarawak General Hospital, Sarawak Malaysia Dr. OOI Mong How Senior Consultant Paediatrician Sarawak General Hospital, Sarawak Malaysia Dr. TEH Cheng Lay Consultant Rheumatologist, Department of Medicine, Sarawak General Hospital Malaysia
	Symposium 4: Acute Care	Workshop 4: Writing A Case Report for Publication
1545	Navigating Do-Not-Attempt Resuscitation (DNAR) Decisions in Emergency Department: A Surveillance Study on Who, What, When and Why Professor Dr. CHEW Keng Sheng Deputy Dean of Graduate Studies, Research and Commercialisation Consultant Emergency Physician Faculty of Medicine and Health Sciences Universiti Malaysia Sarawak (UNIMAS), Sarawak Malaysia	Dr. Benjamin NG Wei Liang Paediatrician Sibu Hospital, Sarawak Malaysia
1610	Ergonomics in Resuscitation and Acute Care Settings Associate Professor Dr. Shaik Farid ABDULL WAHAB Consultant Emergency Physician Head of Department of Emergency Medicine and Senior Lecturer Universiti Sains Malaysia (USM), Penang Malaysia	
1635	Q&A	
	Moderator: Dr. Jeremiah DING Deck Shen Emergency Physician Head of Clinical Research Centre Bintulu Hospital, Sarawak Malaysia	

1645	Plenary 8:		
	Advanced Regenerative Medicine and Clinical Trials		
	Professor Dr. Sung Yong OH Hemato/Medical Oncologist Director of Clinical Trial Center, Dong-A University Hospital, Busan Korea		
	Moderator: Dr. LIEW Houng Bang Consultant Cardiologist Head of Clinical Research Centre Queen Elizabeth II Hospital, Sabah Malaysia		
1715	Adjourn		

DAY 3

22 SEPTEMBER 2023 (FRIDAY)

TIME	CONFERENCE	WORKSHOP
0730	Arrival and registration of delegates	
0800	Plenary 9:	
	Access To Life-saving Advanced Therapies: Can We	Do Better Than Just Let Patients Die?
	Dr. LIM Teck Onn	
	Senior Consultant	
	ClinResearch Sdn. Bhd.	
	Malaysia	
	Moderator:	
	Dr. LIEW Houng Bang	
	Consultant Physician and Cardiologist	
	Head of Cardiology Department	
	Head of Clinical Research Centre	
	Queen Elizabeth II Hospital, Sabah	
	Malaysia	
0830	Plenary 10:	
	Environmental Aspects of Heart Disease	
	Professor Dr. Moo Hyun KIM	
	Cardiologist	
	Department of Cardiology	
	Dong-A University Hospital, Busan	
	Korea	
	Symposium 5:	Workshop 5:
	Drug Development	Preparing a Research Grant
0900	Accelerating Development of a Treatment for	Dr. Diana FOO Hui Ping
	Dengue Through an Endemic Country Led Dengue	Research Medical Officer and Director
	Alliance	of HumanPhysiology Lab

	Professor Dr. Neelika MALAVIGE Head of DNDi Dengue Global Programme & Scientific Affairs DNDi South Asia, India	Clinical Research Centre Sarawak General Hospital, Sarawak Malaysia
0925	A New Spin to Vaccine Development: One Breath is All It Takes Mr. Jinbo GOU Senior Director of Clinical Operations Center, CanSinoBio China	
0950	Q&A Moderator: Mr. CHEW Chun Keat Technical Head Centre for Clinical Trial Institute for Clinical Research National Institutes of Health	
1000	Malaysia	
1015	Plenary 11: Updates from National Pharmaceutical Regulato Malaysia Dr. Zaril Harza ZAKARIA Senior Principal Assistant Director Head of Investigational Product Evaluation and Sa National Pharmaceutical Regulatory Agency Ministry of Health Malaysia	
1045	Closing & Dr. Wu Lien-Teh Research Award Competition Prize Giving Ceremony Group photo session	
1130	Closing Speech by Scientific Chairperson Dr. Alan FONG Consultant Cardiologist Head of Clinical Research Centre Sarawak General Hospital, Sarawak Malaysia	
1140	Lunch and Adjourn	



QUANTUM LEAP IN RESEARCH LEADERSHIP

INVITED FACULTY



Dr. Adibah ALI

Consultant Breast and Endocrine Surgeon Department of Surgery Sarawak General Hospital, Sarawak Malaysia



Dr. Anand Mohan **MOHANA LAL**

Consultant Paediatrician Head of Paediatrics Department Deputy Head of Clinical Research Centre Bintulu Hospital, Sarawak Malaysia



Dr. Balraj SETHI

Head of Medical Affairs Novartis Corporation (M) Sdn. Bhd.



Dr. Benjamin NG Wei Liang

Paediatrician Sibu Hospital, Sarawak Malaysia



Professor Dr. CHEW Keng Sheng

Deputy Dean of Graduate Studies, Research and Commercialisation Consultant Emergency Physician Faculty of Medicine and Health Sciences Universiti Malaysia Sarawak (UNIMAS), Malaysia



Dr. CHEW Lee Ping

Consultant Haematologist Head of Haematology Department Deputy Head of Clinical Research Centre Sarawak General Hospital, Sarawak Malaysia



QUANTUM LEAP IN RESEARCH LEADERSHIP

INVITED FACULTY



Dr. CHUA Hock Hin

Consultant Infectious Disease Physician Head of Infectious Disease Department Sarawak General Hospital, Sarawak Malaysia



Dr. Diana FOO Hui Ping

Research Medical Officer and Director of Human Physiology Lab Clinical Research Centre Sarawak General Hospital Sarawak Malaysia



Professor Dr. GOH Bak Leong

Senior Consultant Nephrologist Head of Nephrology Department Head of Clinical Research Centre Serdang Hospital, Selangor Malaysia



Dr. Hans Prakash SATHASIVAM

Head of Biobank Unit Institute for Medical Research National Institutes of Health Malaysia



Dr. Ivan YAP Kok Seng

Chief Executive Officer, Sarawak Infectious Disease Centre Deputy General Manager, Sarawak Research and Development Council Malaysia



Professor Dr. Jamal Hisham **HASHIM**

Professor of Environmental Health Universiti Selangor (UNISEL) Director of Provenue Corporation, Selangor Malaysia



QUANTUM LEAP IN RESEARCH LEADERSHIP

INVITED FACULTY



Dr. Jeffrey LEE Soon Yit

Research Medical Officer Clinical Research Centre Sibu Hospital, Sarawak Malaysia



Mr. Jinbo GOU

Senior Director of Clinical Operations Center, CanSinoBio China



Dr. Joseph CHERIYAN

Affiliated Associate Professor, University of Cambridge Consultant Clinical Pharmacologist Cambridge University Hospitals NHS Trust United Kingdom



Datuk Dr. Kalaiarasu M. **PEARIASAMY**

Former Director Institute for Clinical Research National Institutes of Health Malaysia



Dr. LAI Wei Hong

Research Officer and Quality Assurance Manager Clinical Research Centre Sarawak General Hospital, Sarawak Malaysia



Dr. LIM Teck Onn

Senior Consultant ClinResearch Sdn. Bhd. Malaysia



QUANTUM LEAP IN RESEARCH LEADERSHIP

INVITED FACULTY



Dr. LIEW Houng Bang

Consultant Cardiologist Queen Elizabeth II Hospital, Sabah



Associate Professor Dr. Mark Y. CHAN

Head of Clinical Research Centre Malaysia





Dr. Mohamad Adam **BUJANG**

Research Officer and Statistician Clinical Research Centre Sarawak General Hospital, Sarawak Malaysia



Professor Dr. Moo Hyun KIM

Cardiologist Department of Cardiology Dong-A University Hospital, Busan Korea



Datuk Dr. Muhammad Radzi **Bin ABU HASSAN**

Director-General of Health Ministry of Health Malaysia



Datuk Dr. Nor Fariza NGAH

Deputy Director-General of Health (Research & Technical Support) Ministry of Health Malaysia



QUANTUM LEAP IN RESEARCH LEADERSHIP

INVITED FACULTY



Professor Dr. Neelika **MALAVIGE**

Head of DNDi Dengue Global Programme & Scientific Affairs DNDi South Asia India



Ms. Norazida AB RAHMAN

Research Pharmacist Centre for Clinical Outcome Research Institute for Clinical Research. National Institutes of Health Malaysia



Dr. Nuraidah MOHD **MARZUKI**

Deputy Director at Health Informatics Centre Public Health Physician Ministry of Health Malaysia



Professor Dr. Patrick THEN

Director, Centre for Digital Futures Swinburne University of Technology, Sarawak Campus Malaysia



Associate Professor Dr. **Shaik Farid ABDULL WAHAB**

Consultant Emergency Physician Head of Department of Emergency Medicine and Senior Lecturer Universiti Sains Malaysia (USM), Penang Malaysia



Professor Dr. Sung Yong OH

Hemato/Medical Oncologist Director of Clinical Trial Center, Dong-A University Hospital, Busan Korea



QUANTUM LEAP IN RESEARCH LEADERSHIP

INVITED FACULTY



Professor Datin Paduka Dr. TEO Soo Hwang, OBE

Chief Scientific Officer, Cancer Research Malaysia Adjunct Professor, University Malaya Medical Centre, Selangor Malaysia



Professor Dr. TOH Teck Hock

Consultant Paediatrician Head of Clinical Research Centre Sibu Hospital, Sarawak Malaysia



Dr. VOON Pei Jye

Consultant Medical Oncologist Head of Radiotherapy and Oncology Departments Sarawak General Hospital, Sarawak Malaysia



Professor Emeritus Dr. YUEN Kah Hay

School of Pharmaceutical Sciences Universiti Sains Malaysia (USM), Penang Malaysia



Dr. Zaril Harza ZAKARIA

Senior Principal Assistant Director Head of Investigational Product Evaluation and Safety Section National Pharmaceutical Regulatory Agency Ministry of Health Malaysia

MODERATORS



Dr. Alan FONG

Consultant Cardiologist Head of Clinical Research Centre Sarawak General Hospital, Sarawak Malaysia



Dr. Jack WONG Siew Yu

Public Health Physician Head of Clinical Research Centre Director of Miri Hospital, Sarawak Malaysia



Dr. LIEW Houng Bang

Consultant Cardiologist Head of Clinical Research Centre Queen Elizabeth II Hospital, Sabah



Datin Dr. Sheamini SIVASAMPU

Director
Institute for Clinical Research
National Institutes of Health
Ministry of Health Malaysia



Mr. CHEW Chun Keat

Technical Head Centre for Clinical Trial Institute for Clinical Research National Institutes of Health Malaysia



Dr. Jeremiah DING Deck Shen

Emergency Physician Head of Clinical Research Centre Bintulu Hospital, Sarawak Malaysia



Dr. Mohan Dass PATHMANATHAN

Research Medical Officer Digital Health Research & Innovation Unit (DHRi) Institute for Clinical Research, NIH Ministry of Health Malaysia



Dr. WONG Toh Mee

Consultant Physician Deputy Head of Clinical Research Centre Sibu Hospital, Sarawak Malaysia



QUANTUM LEAP IN RESEARCH LEADERSHIP

JUDGES



Professor Datu Dr. Andrew Kiyu Dawie anak Usop

Professor of Public Health Faculty of Medicine and Health Sciences Universiti Malaysia Sarawak (UNIMAS) Malaysia



Datuk Dr. Kalaiarasu M. **PEARIASAMY**

Former Director Institute for Clinical Research National Institutes of Health Malaysia



Dr. Kalwinder Singh

Consultant Physician Head of Medical Department Sarawak General Hospital Malaysia



Dr. Ngian Hie Ung

Director Sarawak General Hospital Malaysia



Dr. Ooi Mong How

Senior Consultant Paediatrician Sarawak General Hospital Malaysia



Dr. Teh Cheng Lay

Consultant Rheumatologist, Department of Medicine, Sarawak General Hospital Malaysia

in conjunction with 20th Anniversary of the Clinical Research Centre, Sarawak General Hospital & Sarawak State Research Day



QUANTUM LEAP IN RESEARCH LEADERSHIP

TOP 10 ABSTRACTS

EP 40

How long does COVID-19 vaccine induced antibodies last?

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ABSTRACT

Introduction: Three years have passed since the SARS-CoV-2 pandemic began. Malaysia is currently in the transition to the endemic phase after experiencing the peaks of Delta and Omicron waves. Pfizer-BioNTech mRNA COVID-19 vaccine was first administered to Malaysian healthcare workers in March 2021. This study was initiated to understand immunological responses among our healthcare workers following the vaccination.

Methods: A multicentre, prospective cohort study from March 2021 to March 2023 was conducted. Blood samples were collected from 551 healthcare workers at 8 scheduled visits over 2 years to measure the anti S1-RBD IgG antibody. Infection and vaccination data were also recorded.

Results: COVID-19 infections were reported by 333 (60%) participants with 12% of them having had second and third infections. Anti S1-RBD IgG antibody levels remained high (>2000BAU/ml) after 1.5 years of post-first booster and 0.5 years post-second booster among all participants. Mean IgG titres among infection-naive participants with or without a second booster showed no significant difference at a 2-year follow-up visit (1699.54 vs 1594.31BAU/ml; p=0.612).

Discussion/ Conclusion: This study found that IgG titres remained high for up to 17 months post first booster in infection-naïve individuals and higher IgG titres in infected individuals. The IgG titres waned slower after booster vaccination compared to primary vaccination, which corroborates with similar studies. Our study samples consist of healthy and work-age healthcare personnel; hence the findings are not generalisable to the elderly and immunocompromised population. Further research on antibody neutralising response and prevention of severe infection against emerging variants is needed to further review our vaccination programme.

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QUANTUM LEAP IN RESEARCH LEADERSHIP

TOP 10 ABSTRACTS

EP 107

PICKids Power-Up: Did Pfizer and Sinovac vaccination shield hospitalisation in Malaysian children (6 to 11 years old) during the Omicron surge? Analysis using multi-linked national surveillance data

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ABSTRACT

Introduction: Starting February 2022, Malaysia authorised Pfizer and Sinovac vaccines for children aged 5-11 under the national immunisation program (PICKids). This study aimed to assess vaccine effectiveness (VE) against COVID-19 hospitalisation in Malaysian children aged 6-11, considering the unique vaccine profiles, dosing strategies, and dose intervals in the country.

Methods: A national cohort of public school children aged 6 to 11 was created using the student registry, vaccination records, COVID-19 cases line listing, and hospital discharges. Time to hospital admission was the primary outcome. Data was gathered from various administrative sources under the Ministry of Education and Ministry of Health Malaysia. COVID-19-related hospitalisations were extracted from the Medical Treatment Report System, MyHealthDataWarehouse. Survival analysis was utilised to estimate hazard ratios adjusting for important covariates such as age, sex, regions and history of infection.

Results: The study included 2,203,846 children, with 119,698 partially vaccinated and 918,638 fully vaccinated with either Pfizer or Sinovac. The estimated VE against hospitalisation was 21% (95% CI: 10-30%) and 84% (95% CI: 82-86%) for one- and two doses of vaccines. The VE for full vaccination was 59% (95% CI: 37-73%) and 85% (95% CI: 83-87%) with Sinovac, and Pfizer, respectively.

Conclusion: This study is the first to compare Pfizer and Sinovac VE against COVID-19 hospitalisation under Omicron dominance in children in Malaysia. The VE of Pfizer (85%) was higher than previous studies in the US and Italy but similar to Singapore, while the VE of CoronaVac (59%) was consistent with observations in Brazil. This study informs child vaccination strategies during the Omicron pandemic and public health policies.

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EP 129

Demographics and causes of premature deaths in the Sarawak LIFECARE cohort

Sie Ri Chie¹, Abdul Latif Nur Ariefah Syamimi¹, Lai Wei Hong¹, Tan Shirin Hui¹, Bujang Mohamad Adam¹, Khoo Sing Yee¹, Hamdan Afiq Aiman¹, Parveen Raihana¹, Wee Joe Fu¹, Yap Eileen Pin Pin¹, Tiong Lee Len¹, Fong Alan Yean Yip^{1, 2}, Tiong Xun Ting¹

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ABSTRACT

Introduction: Premature death is a measure of unfulfilled life expectancy. The average life expectancy in Malaysia is 75.94 years. Death occurring prior to 60 years of age (retirement age in Malaysia) imposes an economic loss on the country. The leading cause of premature death in adults aged 18 and above is non-communicable diseases followed by communicable diseases and injury. This study aimed to examine the demographics and main causes of premature death for subjects in the LIFECARE cohort.

Methods: Participants of this study are healthy individuals of 18-50 years from Southern Sarawak, Malaysia. A total of 2543 subjects were recruited at baseline and were followed up between the years 2013 to December 2022, subjects that expired were identified. The causes of death used are based on the final cause of death on the death certificate issued by the National Registration Department (NRD), Malaysia.

Results: The total number of deaths recorded was 42 of which 28 were males (66.7%). The mean(SD) age at death was 45.9(8.8) years. Underlying causes of premature death in LIFECARE Sarawak cohorts were unspecified reasons (n=17,40.5%), cancer (n=10,23.8%), infections (n=5,11.9%), cardiovascular disease (n=5,11.9%) and injuries caused by road accidents, fire-related accidents, fall and drowning (n= 5,11.9%).

Conclusion: Most premature deaths are for unspecified reasons. Aside from unspecified reasons, cancer is the main cause of death. Further verification of the unspecified deaths is needed and initiatives to improve the registration of causes of death by all stakeholders should be considered.

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EP 143

Frozen buffy coat samples from long-term storage (12 years) under the LIFECARE cohort are still viable for whole exome sequencing

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ABSTRACT

Introduction: Rapid advancements in molecular biology through genomic analysis have led to a generation of big data and drastically improve our understanding of disease risk and pathogenesis. When sample collection and handling are fulfilled properly, DNA from frozen buffy coats stored for a long period still produces a good yield of DNA. The fundamental objective of this study is to evaluate the quality and quantity of isolated DNA from frozen buffy coat samples from the LIFECARE Cohort for downstream analysis like Whole Exome Sequence (WES).

Methods: Thirty-five frozen buffy coat samples from the LIFECARE Cohort were analyzed. 50 to 100uL of buffy coats were extracted using QIAamp-UCP-DNA-Micro Kit. DNA quantification and quality assessment were performed using ImplenNanoPhot_16nanophotometer and Denovix double-stranded-DNA broad-range assay to test the quantity, purity and integrity of the extracted DNA.

Results: The median duration of storage for 35 frozen buffy coat samples was 12.23 years (range: 11.08 - 13.17 years). Based on nanophotometer results, the median yield and concentration of DNA obtained was 0.59 ng and 35.0 ng/µl, with a mean A260/A280 ratio of 1.82±0.05 and A260/A230 ratio of 2.21±0.31, all within the acceptable standard ratio range. Denovix Fluorescence Assays which measure intact dsDNA indicated a median yield and concentration of 0.34 ng and 38.0 ng/µl.

Conclusion: DNA extracted from the 35 samples collected under the LIFECARE cohort with long-term storage was of good quality and concentration. Hence, the isolated DNA samples can be used for WES analysis or any downstream studies.

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QUANTUM LEAP IN RESEARCH LEADERSHIP

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A novice experience with Al-powered point-of-care ultrasound in screening primary care diabetic patients for systolic and diastolic dysfunction

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ABSTRACT

Introduction: Diabetes is highly prevalent among Malaysians, and is associated with heart failure (HF). Early detection of subclinical HF before patients decompensate and hospitalized is important. However, lack of access to echocardiography and trained sonographers limit primary prevention echocardiography screening at primary care. We hypothesized that Al-powered point-of-care (POC) ultrasound enables novices to perform echocardiography screening.

Methods: This pilot study enrolled primary care outpatient diabetic patients aged ≥40 years without known cardiovascular disease. A novice layperson with no prior echocardiography experience underwent a 3-day training program to acquire echocardiography images using Al-guided handheld POC ultrasound with Al-automated analysis and interpretation (Al-POCUS). All patients had Al-POCUS examination by the novice, and conventional cart-based manual transthoracic echocardiography (TTE) by trained sonographers validated by board-certified experts. The primary outcome was Al-POCUS accuracy in detecting left ventricular (LV) systolic dysfunction [LV ejection fraction (LVEF) <50%] or diastolic dysfunction [left atrial volume index (LAVI) >34 mL/m2], using TTE as the reference standard.

Results: We studied a total of 10 patients [60% male, mean age 63.5(9.8) years]. Al-POCUS yielded interpretable LVEF in 6 patients and LAVI in 5 patients. LVEF classification on Al-POCUS was concordant with TTE in 5 (83.3%) cases and discordant in 1 (16.7%) case. LAVI classification on Al-POCUS was concordant with TTE in all cases. The mean image acquisition time for Al-POCUS was 4.4(2.0) minutes.

Conclusion: AI-POCUS enables a novice layperson with 3-day training to perform echocardiography screening for LV systolic and diastolic dysfunction in primary care outpatient diabetic patients with good yield, well-correlated LV function classification, and short acquisition time.

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QUANTUM LEAP IN RESEARCH LEADERSHIP

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EP 29

Illness trajectories contributing to Malaysia's palliative care needs: An 11-year retrospective study

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ABSTRACT

Introduction: Palliative care should be accessible to all patients. This study aims to estimate future palliative care needs in Malaysia according to four illness trajectories associated with life-limiting chronic conditions; cancer, organ failure, frailty, and infectious disease.

Methods: Secondary data analysis was conducted using national mortality data spanning from 2004 to 2014. Palliative care needs were estimated using the minimum estimation method developed by Murtagh et al. and stratified according to illness trajectories.

Results: The frailty trajectory contributed the highest proportion of cases relative to total deaths (32 - 34%), followed by organ failure (24- 27%), cancer (9 - 11%), and infectious disease trajectory (approximately 1%). Similarly, the frailty trajectory accounted for the highest proportion of total palliative care needs, with proportions gradually decreasing from 50% in 2004 to approximately 45% in 2014. Conversely, the organ failure trajectory proportion marginally rose from about 36% in 2004 to approximately 38% in 2014. Cancer and infectious disease trajectories contributed about 13-15% and 0.5-1% of total palliative care needs, respectively. Sensitivity analysis using only medically certified deaths saw the proportions of frailty trajectory cases relative to total deaths and total palliative care needs falling drastically to about 4% and 15% on average respectively. However, the ratio between proportions of other trajectories remained fairly constant.

Conclusion: Although palliative care is often associated with the cancer trajectory, a much substantial need lays with both organ failure and frailty trajectories. Hence, palliative care should be integrated with other therapeutic areas to achieve equitable access across all trajectories.

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QUANTUM LEAP IN RESEARCH LEADERSHIP

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EP 73

Place of death for people with life-limiting illnesses (2005-2030): Past trends and projections in Malaysia

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ABSTRACT

Introduction: Place of death (PoD) is considered an important aspect of end-of-life care because it is related to quality of life. It also acts as a proxy indicator of whether care meets the patient's preference during end-of-life since most people prefer to die at home. This study aimed to examine the past trends and future projections of PoD of patients with life-limiting illnesses.

Methods: We conducted an analysis of decedents aged 15 years and above who died from life-limiting illnesses from 2005-2019 using the national mortality registry. PoD was categorized as home, hospital, care home and elsewhere. Future trends in PoD until 2030 were projected using simple linear modelling.

Results: Between 2005 and 2019, there were 1,423,942 deaths due to life-limiting illnesses with the highest cause of death being Alzheimer's disease, dementia and senility (37.0%), followed by heart disease (22.9%) and malignant neoplasm (15.4%). The percentage of home deaths declined from 59.9% to 49.2% in 2019. Contrastingly, percentages of hospital and care home deaths increased (35.1-45.2% and 0.6-1.1%). If the current trend continues, home deaths will decline further to 42.2% by 2030. This would correspond to a relative increase of 22.1% in-hospital deaths by 2030.

Conclusion: The rising trends in hospital deaths could be the result of growing hospital palliative care services in the country. Nevertheless, this trend is heading towards a direction which is against people's preferences. Therefore, more effort to expand and strengthen community palliative care support to enable more people to die in community settings is urgently called for.

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QUANTUM LEAP IN RESEARCH LEADERSHIP

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EP 90

Translation, validity and reliability of Chinese Epworth Sleepiness Scale for Children and Adolescents for Malaysian

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ABSTRACT

Introduction: Epworth Sleepiness Scale for Children and Adolescents (ESS-CHAD) is a valid and reliable self-administered questionnaire for the assessment of excessive daytime sleepiness and screening of sleep-disordered breathing for children and adolescents. This study aimed to translate and cross-culturally adapt ESS-CHAD into a Chinese version (CESS-CHAD) for Malaysians, and to assess its validity and reliability.

Methods: Forward-backward translation method was used to translate and cross-culturally adapt ESS-CHAD. Content validity for relevancy and clarity was tested using the item-content validity index (I-CVI). Face validity was conducted using semi-structured in-depth interviews with two primary school teachers and 30 native Chinese-speaking children and adolescents followed by thematic analysis. For criterion validity, 156 subjects answered the final CESS-CHAD and Chinese version of the Paediatric Sleep Questionnaire (C-PSQ) concurrently. For formative construct validity, the Variance Inflation Factor (VIF) was analysed using SmartPLS to assess the indicator's multicollinearity. Two weeks later, 32 subjects answered the final CESS-CHAD again for internal consistency and test-retest reliability.

Results: All eight questionnaire items passed the threshold I-CVI value of 0.79 for relevance and clarity. Spearman Correlation Coefficient value of 0.53 suggested a strong positive correlation between CESS-CHAD and C-PSQ. VIF ranging from 1.25 to 2.45 indicated no collinearity problem. Intraclass Correlation Coefficient ranging from 0.70 to 0.94 and Cronbach's alpha ranging from 0.82 to 0.97 confirmed good to excellent test-retest reliability and internal consistency, respectively.

Conclusion: ESS-CHAD has been translated and cross-culturally adapted into Chinese for Malaysians, and found to be valid and reliable.

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QUANTUM LEAP IN RESEARCH LEADERSHIP

TOP 10 ABSTRACTS

EP 127

Impact of accelerated access to molecular diagnostics on empirical use of acyclovir in suspected encephalitis: A case-control study

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ABSTRACT

Introduction: Introduction: Lacking of herpes simplex virus (HSV) Polymerase Chain Reaction (PCR) diagnostic testing in Sarawak government facilities often leads to unnecessary prolonged empirical acyclovir treatment duration in patients with suspected encephalitis. In 2017, Clinical Research Centre (CRC) Sibu Hospital set up a PCR laboratory for on-site and accelerated access collaboration. Our study aimed to compare treatment duration, cost of acyclovir, length of stay, and adverse drug reactions related to acyclovir usage before and after the availability of the HSV PCR diagnostic test.

Methods: This was a case-control study. HSV results and case notes of patients started with empirical acyclovir for suspected HSV encephalitis admitted to five specialist hospitals in the central and northern zones of Sarawak during the pre-intervention period (January 2017 - October 2018) were traced (control). During the post-intervention period (November 2019 - December 2020) patients with suspected encephalitis who started empirical acyclovir were recruited prospectively (case) and cerebral spinal fluid samples were tested with real-time PCR at CRC Laboratory.

Results: A total of 195 control patients (pre-intervention period) and 124 case patients (post-intervention period) were included. Patients in the post-intervention group had significantly shorter mean acyclovir treatment duration (5.3 days vs. 4.1 days, p=0.02), length of stay (22.3 days vs. 11.6 days, p=0.026), and lower cost of innovator acyclovir (RM2076.80 vs. RM 1606.40, p=0.022). There was lesser adverse drug reaction in the post-intervention period (4.1% vs. 0.8%, p=0.083).

Conclusion: Accelerated access to HSV PCR testing helps with safer, more cost-effective patient care and clinical practices as well as less burden on patients.

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QUANTUM LEAP IN RESEARCH LEADERSHIP

TOP 10 ABSTRACTS

EP 158

Diabetes app's impact on glycemic control in a tertiary centre

Zainal Abidin Nurul Huda¹, Mohd Noor Nurain¹, Mohamed Nor Lisa¹, Bahari Rashidah¹, Ibrahim Nor Nadziroh¹, Halim Noorhayati¹, Suffian Noor Zira¹, Abu Gani Mumtas¹, Mohd Nadzri Ezzatulakma¹, Abdullah Sharin Ili²

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ABSTRACT

Introduction: There is growing evidence that digital technology interventions can improve the effectiveness of self-care management for diabetes patients. However, the clinical impact in the local setting is unsure. The study aimed to describe the use of the Health2Sync app in glycemic control among diabetes patients in our centre.

Methods: All adult diabetes patients under the endocrine clinic Hospital Putrajaya follow-up used the Health2Sync app for at least 6 months from January 2022 till January 2023 were included. They were then stratified into 2 groups (active and non-active users) based on their level of use of Health2Sync in the first 3 months and 6 months. As the baseline blood glucose level of each patient was different, we calculated the percentage rate of change in HbA1c level, generated using the formula (HbA1c value - baseline HbA1c) / baseline HbA1c), to assess the improvement in glycemic status.

Results: There were 102 users with a mean age of 45 (SD: 14.65). About half were men (51%), 83 (81.4%) had type 2 diabetes mellitus and the majority (71.6%) were on both oral hypoglycaemic agents and insulin. The mean baseline HbA1c was 9.9 (SD: 2.69). After 3 months of use, the mean percentage reduction of HbA1c from baseline in active and non-active users was 9.8% and 4.1%, respectively. After 6 months of use, the mean percentage reduction of HbA1c from baseline in active and non-active users was 18.6% and 6.2%, respectively.

Conclusion: The percentage reduction of HbA1c among active users is greater than among non-active users. Active users of the diabetes management app have better glycemic control.

16th National Conference for Clinical Research (NCCR) in conjunction with 20th Anniversary of the Clinical Research Centre, Sarawak General Hospital & Sarawak State Research Day



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Persatuan Dr. Wu Lien-Teh, Pulau Pinang The Dr. Wu Lien-Teh Society, Penang

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PRESERVING THE PROUD LEGACY- DR. WU LIEN-TEH

Dr. Wu Lien-Teh (1879-1960) was a global medical icon in public health in the 20th century. He was a highly respected public health physician and an internationally-acclaimed plague fighter. His unyielding passion for humanity and social justice extended beyond his role as a doctor. His extraordinary life story and heroic achievements have remained an inspiration and set the standard for generations to come.

Born in Penang, Malaysia on 10th March 1879, he was a student from Penang Free School. He was the first Malaysian and a top medical student to study at Emmanuel College, Cambridge University, where he obtained his PhD. He was among the first founders of the Anti-Opium Society in Malaya and eventually achieved the abolishment of opium in 1926. He was trained by three Nobel laureates in Physiology or Medicine in England, France and Germany in 1903 before returning to work in the Institute for Medical Research, Kuala Lumpur, where there is a gallery about his great pioneering work. He was them offered a position as Vice Director of the Tientsin Military Medical Hospital, China in 1907. In December 1910 there was an outbreak of a serious epidemic involving pneumonic plague in Manchuria, where he and his medical team were despatched by the Ching Dynasty government to investigate the cause and bring the plague under control.

Dr Wu's heroic medical work led to the halting of the outbreak after 60,000 lives were lost, which could have devastated China. By initiating the largest cremation in Chinese history and putting in quarantine measures and inventing the "Wu mask", Dr. Wu succeeded in bringing the plague under control within 6 months. He subsequently was tasked to establish some 20 hospitals and research hospitals in China, thus he was known as the Father of Modern Medicine in China. In 1932 he co-authored the first English book on "History of Chinese Medicine".

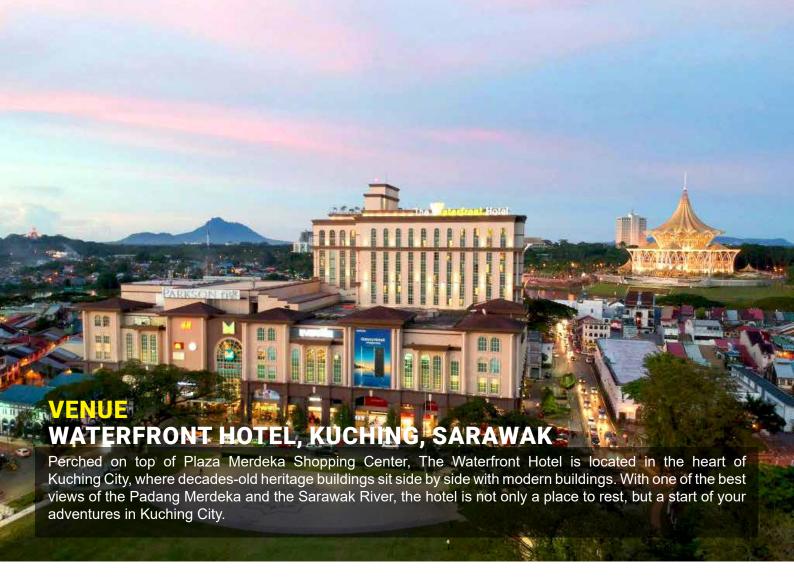
He also founded the China Medical Association in 1916. For his work on pneumonic plague he was nominated for the Nobel Prize in Physiology or Medicine in 1935 and still holds the record as the first Malaysian to achieve such distinction. He returned to Malaysia in 1937 and continued as a practicing doctor in Ipoh. He was actively involved in civic and public health works in Ipoh until 1960. He retired in January 1960 and returned to Penang where he died of a stroke. The Times of London wrote "The world of medicine has lost a heroic and almost legendary figure".

During the Covid-19 pandemic, this public health hero was once again celebrated for his fight against the Manchurian plague of 1910-1911, and his pioneering of the face mask. This fact appeared as a Google doodle on March 10, 2021. The caption read "Dr. Wu Lien-Teh, who invented a surgical face covering that is widely considered the precursor to the N95 mask." This simple three-ply mask saved many lives during the pneumonic plague, and continues to save many more lives a century later!

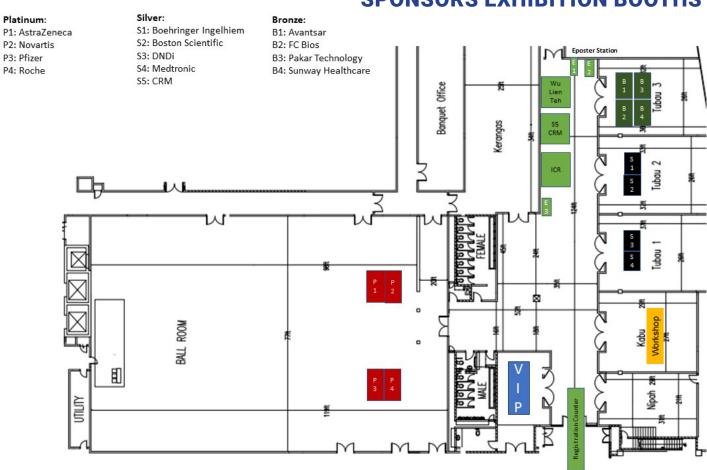
Among several initiatives in honouring this legendary figure, a road named after him can be found in Ipoh Garden South; while in Penang, a residential area near Penang Free School named Taman Wu Lien-Teh and recently, a new road in George Town. An elegant bronze statue from Harbin is placed in the Dr Wu Lien-Teh Garden in Penang Institute. Institute for Medical Research, where he worked as first local research staff in 1903, housed a permanent gallery for him. In Harbin, Wu Lien-Teh Institute was established in Harbin Medical University in 2015 aiming to become the Pasteur Institute in Asia!

As part of the initiatives from the Dr Wu Lien-Teh Society, Dr Wu Lien-Teh Research Awards for the annual National Conference for Clinical Research was established in collaboration with Institute for Clinical Research, since 2015, now in its 9th year. In January 2022, we celebrated the inaugural establishment of Dr Wu Lien-Teh Award- Best Student for Doctor of Public Health in the oldest and most prestigious medical school in Malaysia, Universiti Malaya. There are reprints of Plague Fighter, Memoirs of Plague Fighter, dedicated poem, heritage trail and student lectures, among many more initiatives by the Society, to share to the world on Dr Wu.

In March 2022, we established the Dr Wu Lien-Teh Award for Leadership in Public Health to recognize the exemplary leaders and their outstanding contributions to the field of public health. Their passion and determination in making a difference for mankind. Their fighting spirit is infectious and their achievements continue to inspire others. In November 2022, the Society collaborated with International Society for Infectious Diseases in establishing a WLT-ISID fellowship to support young researcher from low-and-middle income country to present their research findings at the conference.



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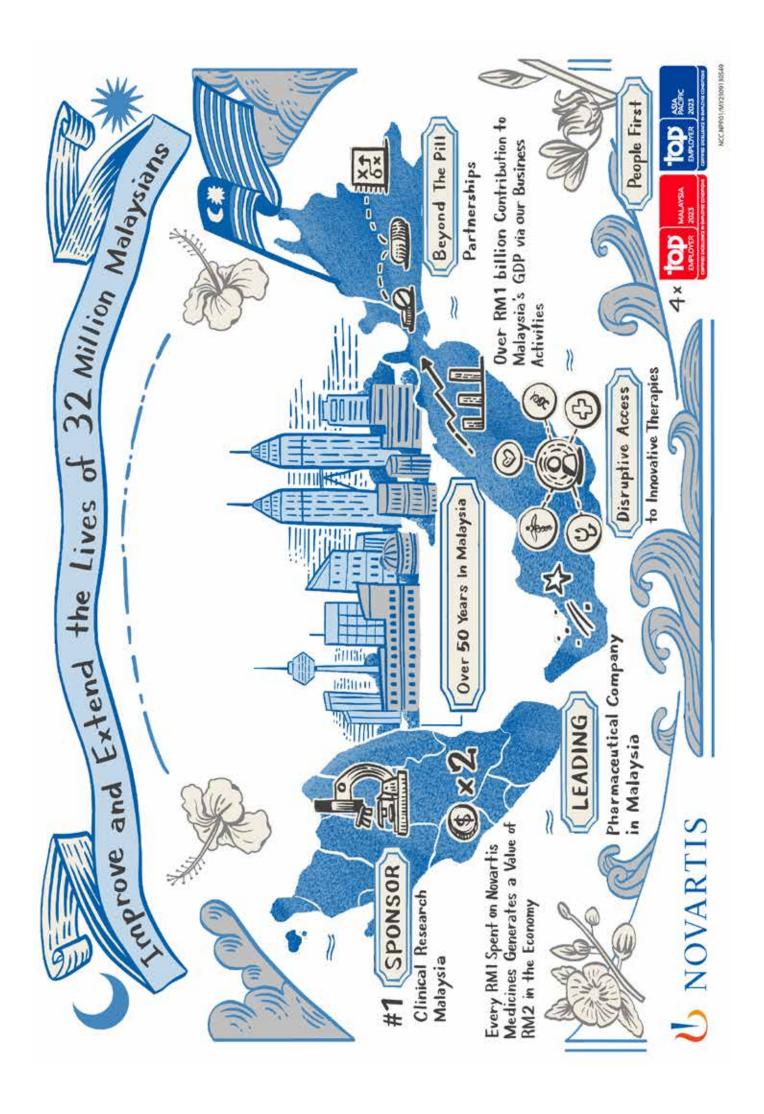




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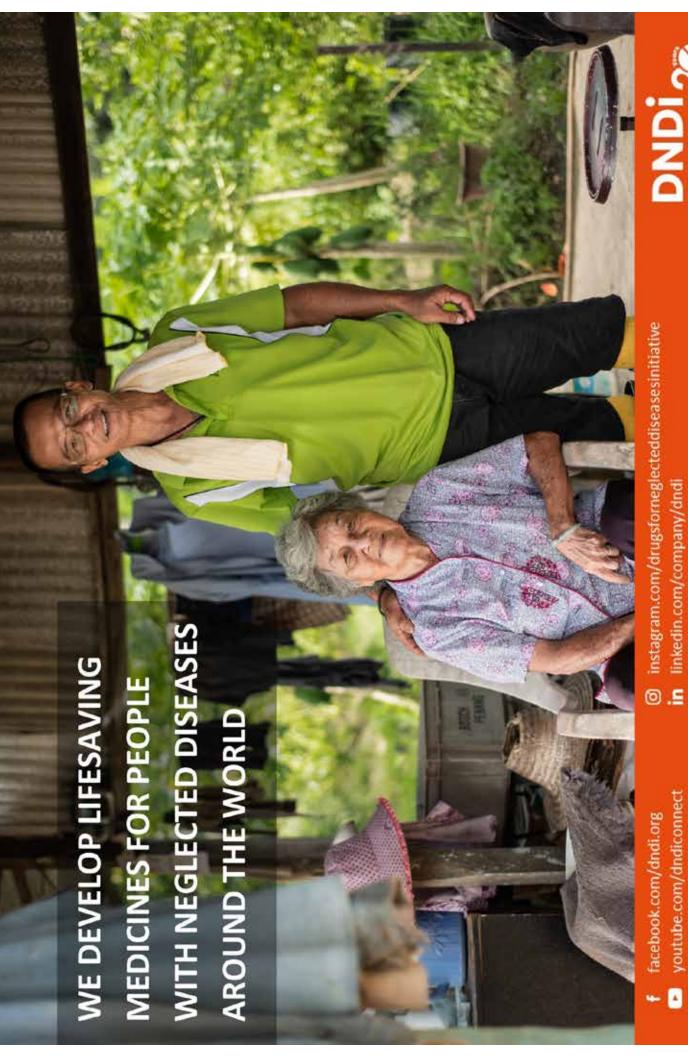
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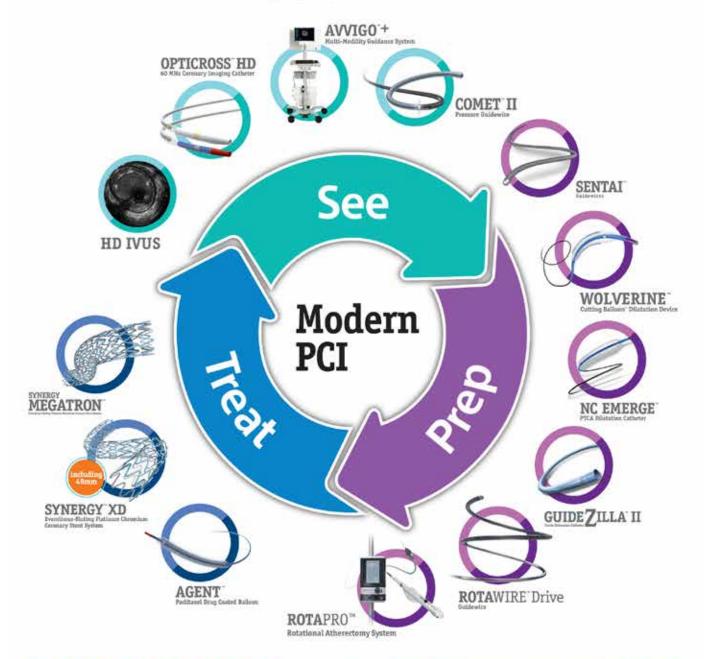
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Specialist

Are you a specialist in

your area of expertise?

Often consultants or

specialists who are

clinical trials.

sought for to conduct

01

05

Ø.

QUALIFICATION

examination.

Undergo Good Clinical

Practice (GCP) training and pass the GCP

Usually organised by

and by universities.

CRCs at MOH hospitals

02 GC



03) Registe

Register your interest to be an investigator with the hospital CRC and CRM.

Approval and support from your department are especially important in your journey to being an investigator.

04 Study Team

PARTICIPATE

Join existing or new study teams as a sub-investigator under the supervision of of the PI to gain needed experience in conducting clinical trial.



Perform

EXPERIENCE

in study teams

always ensure

are adhered to.

standards of GCP

Be a valued member

Perform your role as

delegated by Pl and

06 Feasibility

Experienced investigator will be approached by CRM for new feasibility studies.

Questionnaires provided would need to be answered accurately within the timeline agreed.



Evaluation

Sponsor or Contract Research Organization (CRO) will approach site & investigator for further evaluation if post-feasibility assesment is successful



08

START UP
Awarded as Principal
Investigator (PI) for site
or study if selected.

CRM will facilitate PI for study budget and Clinical Trial Agreement review during study start-up.

Clinical Research Malaysia (CRM) facilitates as a one-stop centre for sponsored research. Below are some of the services CRM provides:



Feasibility studies & investigator matching



Consultation and management of clinical trial budget



Review of Clinical Trial Agreement (CTA) & Non-Disclosure Agreement (NDA)



Development & placement of study coordinators

GLOSSARY

Sponsored Research:

Research that is fully funded by a company/ organisation. Protocol is developed by the sponsor and investigators are 'hired' to conduct the research. Common examples are drug clinical trials by pharmaceutical companies

Feasibility:

A process in evaluating the possibility of conducting the study at a region/site

Contract Research Organisation (CRO):

Research organisation that is outsourced by sponsor to provide research support

Study Coordinators:

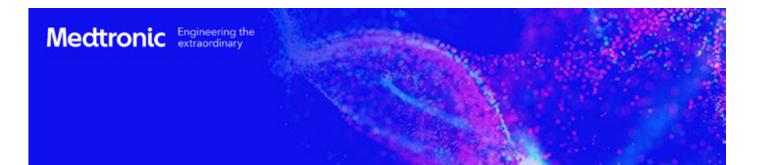
Trained and qualified research personnel who support investigator in carrying out delegated study-related tasks

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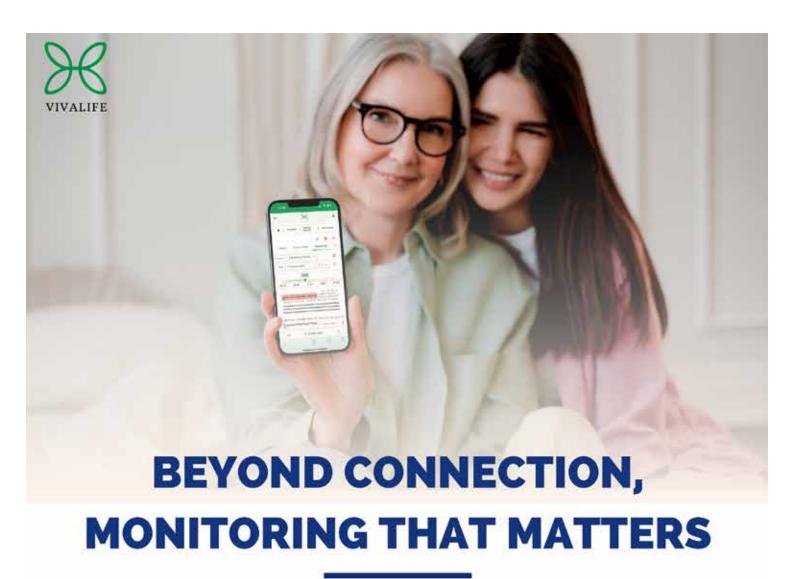
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CLINICAL RESEARCH CENTRE

Improving Lives through Research & Innovation





ABOUT US

As part of Sunway Healthcare Group, Sunway Clinical Research Centre (CRC) is a Site Management Organisation that commenced in August 2009 and has been steadily growing.

Sunway CRC serves as a conduit between clinical researchers in Sunway Medical Centre with the industry and other research institutions. With 93 consultants from diverse therapeutic areas and 12 experienced CRC team members on board, Sunway CRC has conducted 130 Investigator Initiated Research (IIR) and 42 Industry Sponsored Research (ISR) since 2018.

We plan to venture into early phase clinical trials to meet future research needs. The partnership with the University of Cambridge, recognising our Clinical Research Centre as the sole Regional Site Partner to conduct and coordinate clinical trials, further accelerates our trajectory in becoming one of the leading and pioneering research centres among private hospitals in the ASEAN region.

FACILITIES



Largest private quaternary hospital with 28 Centres of Excellence and more than 60 medical specialties with state-of-the-art medical technology



Comprehensive Pathology Laboratory services



Established Radiology services & Nuclear Medicine Centre

WHY CHOOSE US?

EXPERIENCED TEAM & EFFICIENT MANAGEMENT PROCESSES

- 93 consultants involved in research across diverse therapeutic areas
- 12 qualified CRC team members
- 45 days turnaround time for contract
 & budget review

SUNMED INDEPENDENT RESEARCH ETHICS COMMITTEE (SREC)

- NPRA registered independent Ethics Committee
- 45 days turnaround time
- Experienced Ethics Committee members

NOTABLE RESEARCH AREAS

- Oncology
- Haematology
- Respiratory
- Paediatrics
- Nuclear Medicine
- Orthopaedic
- Dermatology
- Rheumatology

ACCREDITATIONS



Australian Council on Healthcare Standards (ACHS)



Malaysian Society for Quality in Health (MSQH)



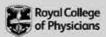
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INTERNATIONAL COLLABORATIONS













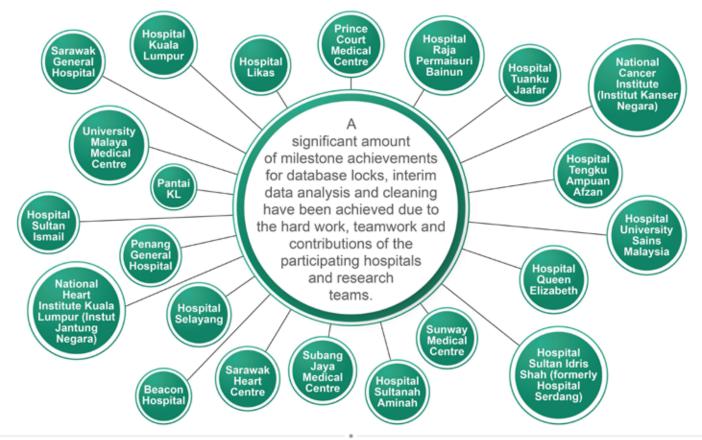
Clinical Research Centre (CRC)

F-03-02, Block F, Sunway Geo Avenue, Jalan Lagoon Selatan, Bandar Sunway, 47500 Selangor





Janssen Research & Development team would like to thank and acknowledge all the partner sites and research team in Malaysia for their support and contribution in clinical trial development.



RECRUITMENT ACHIEVEMENTS

IN 2023

NSCLC—Phase 2 and 3 Study

- University Malaya Medical Centre
- Dr. Tan Jiunn Liang and team
- Top recruiting site in Malaysia for 2 studies
- Phase 2 Global First Site Open, Global First Patient Screened and Enrolled

Colorectal Cancer— Phase 1b/2 Study

- University Malaya Medical Centre
- Prof. Ho Gwo Fuang and team
- Top recruiting site in Malaysia and top site contributor globally

NSCLC – Phase 2 Study

- · Sarawak General Hospital
- · Dr. Voon Pei Jye
- Global First Patient Screened (Cohort 6)

NSCLC - Phase 3

- Sarawak General Hospital and Pantai KL Hospital
- Dr. Voon Pei Jye, Dr. John Low Seng Hooi
- Top recruiting sites in Malaysia

In 2022, there were 2 first site open globally at

Hospital Ampang - Dr. Tan Sen Mui

Sarawak General Hospital – Dr. Voon Pei Jye

Trial currently in recruitment phase, scan to know more Multiple Ulcerative Pulmonary NSCLC Colorectal Myeloma Colitis Hypertension Cancer П 4¶0 N. P 回点 SCAN ME SCAN ME SCAN ME SCAN ME (SCAN ME SCAN ME SCAN ME

NELSON WONG CEO & FOUNDER

"I strongly believe in simplified processes, using technology to predict quality risk and develop out-ofthe-box strategies to improve any efficiencies."

GOH TSE SENG REGIONAL HEAD, CD MYS

"I am an advocate of good quality and people development in increasing the probability of success of our clients' projects."



OUR SERVICES

PRE-STUDY CONSULTATION

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QUALITY ASSURANCE

MEDICAL WRITING

CLINICAL OPERATIONS

IP MANAGEMENT

PHARMACOVIGILANCE & MEDICAL MONITORING

SITE FEASIBILITY

PROJECT MANAGEMENT

DATA MANAGEMENT

POST MARKETING & NEW DRUG APPLICATION

























OUR STORY

CSI Medical Research (CSIMR) was incorporated in the year 2017 in Singapore. The company has since grown and doubled in terms of employees and revenue. In recent years, we have set up entities in Malaysia (2020), Australia (2022) and Philippines (2023).

OUR KNOWLEDGE AND NETWORK-

CSIMR is equipped with extensive knowledge of local regulatory workflow and extensive network of clinical research site within the region. This allows us to provide high quality & consistent services at a more cost efficient point. We value our customers' experiences hence creating a pool of loyal customer base when we treat one another as partners.

OUR STRATEGIC GOAL

We aspire to be recognized as 'S.E.A Most Truth-worthy CRO' by the year 2025 with the main focus of delivering our services in clinical trials within Asia Pacific countries.





Embrace every opportunity to learn something new, is the key to organisation professional growth

ClinData Consult Sdn Bhd (915461-A) D7-3-2 Block D7, Pusat Perdagangan Dana 1, Jalan PJU 1A/46, PJU 1A, 47301 Petaling Jaya, Selangor Darul Ehsan

Phone: 603-78426322

Website:

www.clindata.com.my

ClinData Consult with expertise in clinical research, registries, GCP and GCDMP (Good Clinical Data Management Practices) hopes to play our part in contributing to positive change to ensure compliance of the trials managed by us & creating awareness in the importance of data quality in this region.

With team of experts with more than 19 years of experience begins with providing Clinical Data Management Services for clinical trials, expertise in setting up Patient Registry moving on to Project Management and as now a CRO (Contract Research Organization) providing monitoring services including managing clinical trial-related projects and providing consulting to clients focusing by proving a simpler alternative and solution to manage the clinical trial, pushing boundaries, and finding new solutions.

We are grateful for the opportunity when Clindata Consult was engaged to manage data and at the same time also assisted in the Clinical Trial /Project Management for the followings studies in China:

Year 2010 Stem Cell therapy for Type 2 Diabetes Mellitus (An exploratory feasibility study to evaluate the potential of a adipose tissue derived ex-vivo cultured allogenic Mesenchymal) at INTERVENTIONAL HOSPITAL OF SHANDONG RED CROSS SOCIETY, Jinan China (Shandong New Medicine Research Institute)

Year 2012 Research on hUC-MSC Human Umbilical Cord Mesenchymal Stem Cells or hUC-MSC人脐带间充质干细胞研究 at Second Affiliated Hospital, Kunming Medical University, Kunming China

And a few other trials in Indonesia (CART Study) and within Malaysia (COVID 19 Vaccine Trial)



PROJECT MANAGEMENT, including developing and tracking study timelines, ensuring all activities are within scope and budget, coordinating and executing Clinical Research activities and acting as the central point of contact for the client. Our clinical project management team has experience managing trials ranging from cell and gene therapies, oncology trials, vaccine trials, medical devices, cohort studies and patient registry.



CLINICAL MONITORING, including protocol, informed consent, submission to the IRB, regulatory and ICH GCP compliance, site personnel training a: assisting and ensuring appropriate reporting to the IRB / Regulatory by the study sites or on behalf of the sponsor. Not limited to Site recruitment strategy, feasibility visits, Regulatory document preparation and collection and Study closure.

EASY CLINICAL RESEARCH - eCRF Platform for Clinical Trial as well as Randomization Web system For more information, please visit http://easycr.com.my



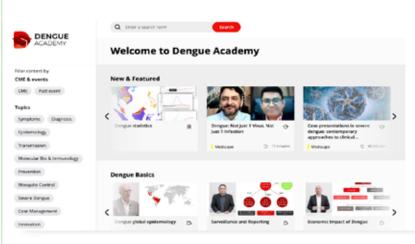
AWARENESS & COMMUNITY SERVICES: Clindata Consult has presented as well as conducted various clinical research workshops, raising awareness among the clinical researchers on good practices particullary on GCDMP, Good documentation practices, data ethics and many more.

Clindata Consult team believe in giving back to the community and has been working with various NGO (Non Profit Organization). Volunteering or community service provides our team with the chance to improve skills important for a workplace, such as communication and organizational skills, teamwork, planning, problem-solving and task management. At the same time offers lots of opportunities to meet and work with various



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Dengue fever

is the most important vector-borne disease in Malaysia in terms of disease and economic burdens¹



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Reference:

1. Packlerisamy PR, Ng CW, Dahlui M, Inbaraj J, Balan VK, Halasa YA, Shepard DS. Cost of Dengue Vector Control Activities in Malaysia. Am J Trop Med Hyg. 2015 Nov:93(5):1020-1027. doi: 10.4269/ajtmh.14-0667. Epub 2015 Sep 28. PMID: 26416116; PMCID: PMC470324



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Unit TB-L 13-1, Level 13, Tower B, Plaza 33, No. 1, Jalan Kemajuan, Seksyen 13, 46200 Petaling Jaya, Selangor Darul Ehsan, Malaysia. Tel: +603 7953 3100 Fax: +603 7953 3101 All trademarks are the property of their respective owners.
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Acknowledgement

The 16th National Conference for Clinical Research in conjunction with 20th Anniversary of the Clinical Research Centre, Sarawak General Hospital and Sarawak State Research Day wishes to thank

Ministry of Health Malaysia for the collaboration and support extended to NCCR Conference 2023.

In addition, NCCR would like to thank the following companies for participating and making this conference a success:

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