16th National Conference for Clinical Research (NCCR)
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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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 Ayob
Deputy Secretary-General (Finance)
Ministry 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
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
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
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 Yusof
Chief Executive Officer
Clinical Research Malaysia
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
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<td><strong>Organising Chairperson</strong></td>
<td>Datin Dr. Sheamini SIVASAMPU</td>
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<td>Dr. Jack WONG Siew Yu</td>
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| 0830  | **Keynote 1:** Digital Health: New Opportunities for Research and Improvement in Clinical Care  
*Professor Dr. Patrick THEN*  
Director, Centre for Digital Futures  
Swinburne University of Technology, Sarawak Campus  
Malaysia |                                                                           |
| 0900  | **Plenary 1:**  
ASTRAZENECA  
The Evolving Therapeutic Landscape of Complement-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 Journey  
*Associate Professor Dr. Mark Y. CHAN*  
Deputy Director  
Cardiovascular Research Institute (CVRI) and Cardiovascular Disease Translational Research Program, National University of Singapore (NUS)  
Singapore |                                                                           |
| 1000  | *Tea break, networking and poster viewing*                                   |                                                                           |
| 1030  | **Symposium 1:**  
Non-Communicable Diseases (NCD)  
*Neuroprotective Activities of Palm Vitamin E Tocotrienols*  
*Professor Emeritus Dr. YUEN Kah Hay*  
School of Pharmaceutical Sciences  
Universiti Sains Malaysia (USM), Penang  
Malaysia | **Workshop 1:**  
*Why Sample Size Matters?*  
*Dr. Mohamad Adam BUJANG*  
Research Officer and Statistician  
Clinical Research Centre  
Sarawak General Hospital, Sarawak  
Malaysia |
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<td>1055</td>
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<td><strong>Professor Dr. Jamal Hisham HASHIM</strong></td>
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<td>Professor of Environmental Health</td>
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<td>1130</td>
<td>Plenary 3: Clinical Research at the Heart of a Pandemic – ICR's Local and Global Impact</td>
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<td><strong>Datuk Dr. Kalaiarasu M. PEARIASAMY</strong></td>
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<td>Research Collaboration- A New Frontier</td>
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<td>✤ <strong>Datuk Dr. Nor Fariza NGAH</strong></td>
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<td>Herpes Simplex Encephalitis</td>
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<td>Dr. Jeffrey LEE Soon Yit</td>
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<td>1500</td>
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<td>Improving Outcomes through Early Phase Research</td>
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<td>Dr. VOON Pei Jye</td>
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<td>Head of Radiotherapy and Oncology Departments</td>
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<td>1555</td>
<td><strong>Revolution in Treatment of Haematology Diseases</strong>&lt;br&gt;Dr. CHEW Lee Ping&lt;br&gt;Consultant Haematologist&lt;br&gt;Head of Haematology Department&lt;br&gt;Deputy Head of Clinical Research Centre&lt;br&gt;Sarawak General Hospital, Sarawak&lt;br&gt;Malaysia</td>
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<td><strong>Q&amp;A</strong>&lt;br&gt;Moderator: Dr. Alan FONG&lt;br&gt;Consultant Cardiologist&lt;br&gt;Head of Clinical Research Centre&lt;br&gt;Sarawak General Hospital, Sarawak&lt;br&gt;Malaysia</td>
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<td>1630</td>
<td><strong>Plenary 5</strong>&lt;br&gt;Ministry of Health Malaysia Biobank&lt;br&gt;&lt;br&gt;Dr. Hans Prakash SATHASIVAM&lt;br&gt;Head of Biobank Unit&lt;br&gt;Institute for Medical Research&lt;br&gt;National Institutes of Health&lt;br&gt;Ministry of Health Malaysia</td>
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| 0830  | Clinical Research Malaysia Named Lecture: A Vision for Developing Early Phase Research Investigator Capability  

*Drs. Joseph Cheriyan*  
Affiliated Associate Professor, University of Cambridge  
Consultant Clinical Pharmacologist  
Cambridge University Hospitals NHS Trust  
United Kingdom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |
| 0900  | Plenary 6: From Bench to Bedside: What Have We Learned for Asian Breast Cancers  

*Professor Datuk Paduka Dr. Teo Soo Hwang, OBE*  
Chief Scientific Officer, Cancer Research Malaysia  
Adjunct Professor, University Malaya Medical Centre, Selangor  
Malaysia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |
| 0930  | Plenary 7: Sarawak Infectious Disease Centre: Vision and Mission  

*Dr. Ivan Yap Kok Seng*  
Chief Executive Officer, Sarawak Infectious Disease Centre  
Deputy General Manager, Sarawak Research and Development Council, Sarawak  
Malaysia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |
| 1000  | Keynote 2: Championing Research in Ministry of Health  

*Professor Dr. GoH Bak Leong*  
Senior Consultant Nephrologist  
Head of Nephrology Department  
Head of Clinical Research Centre  
Serdaeng Hospital, Selangor  
Malaysia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |
| 1030  | Tea break, networking and poster viewing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |
| 1100  | Arrival of VIP and distinguished guests                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |
| 1105  | Institute for Clinical Research Named Lecture: Quantum Leap in Research Leadership  

*Datuk Dr. Muhammad Radzi Bin Abu Hassan*  
Director-General of Health  
Ministry of Health Malaysia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |
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<td>1135</td>
<td>Doa recital</td>
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<td>1145</td>
<td>Opening Ceremony: 16th National Conference for Clinical Research 20th Anniversary of Clinical Research Centre, Sarawak General Hospital Sarawak State Research Day</td>
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<td>1155</td>
<td>Welcoming Address by Organising Chairperson Datin Dr. Sheamini SIVASAMPY Director Institute for Clinical Research National Institutes of Health Ministry of Health Malaysia</td>
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<td>1205</td>
<td>Opening Remarks by YB. Dato. Sri Professor Dr. SIM Kui Hian Deputy Premier of Sarawak Minister for Public Health, Housing and Local Government</td>
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<td>1245</td>
<td>Officiating Speech and Launch by YB Dr. Zaliha MUSTAFA Minister of Health Malaysia</td>
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<td>1255</td>
<td>MoU signing between National Institutes of Health (NIH), Ministry of Health (MOH) and Sarawak Infectious Disease Centre (SIDC)</td>
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<td>1300</td>
<td>Lunch Symposium: 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</td>
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<td>1340</td>
<td>Break</td>
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<td>1400</td>
<td>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 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</td>
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<td>1530</td>
<td><strong>Tea break, networking and poster viewing</strong></td>
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<td>1545</td>
<td><strong>Symposium 4: Acute Care</strong></td>
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<td><strong>Navigating Do-Not-Attempt Resuscitation (DNAR) Decisions in Emergency</strong></td>
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<td><strong>Department: A Surveillance Study on Who, What, When and Why</strong></td>
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<td>1610</td>
<td><strong>Ergonomics in Resuscitation and Acute Care Settings</strong></td>
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<td>1635</td>
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<td><strong>Workshop 4: Writing A Case Report for Publication</strong></td>
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### Day 3

**22 September 2023 (Friday)**

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<th>TIME</th>
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<tr>
<td>0730</td>
<td><em>Arrival and registration of delegates</em></td>
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| 0800  | **Plenary 9:** Access to Life-saving Advanced Therapies: Can We Do Better Than Just Let Patients Die?  
*Dr. Lim Teck Onn*  
Senior Consultant  
Malaysia  
Moderator:  
*Dr. Liew Hyoung 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                                                                                     |                                                                           |
| 0900  | **Symposium 5:** Drug Development  
*Accelerating Development of a Treatment for Dengue Through an Endemic Country Led Dengue Alliance*  
*Dr. Diana Foo Hui Ping*  
Research Medical Officer and Director of Human Physiology Lab  
*Workshop 5: Preparing a Research Grant*                                                     |                                                                           |
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<th>Time</th>
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<tr>
<td>0925</td>
<td><strong>A New Spin to Vaccine Development: One Breath is All It Takes</strong></td>
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<td><strong>Mr. Jinbo GOU</strong></td>
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<td>Senior Director of Clinical Operations Center, CanSinoBio, China</td>
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<td>0950</td>
<td><strong>Q&amp;A</strong></td>
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<td>Moderator: <strong>Mr. CHEW Chun Keat</strong></td>
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<td>1000</td>
<td><strong>Tea break, networking and poster viewing</strong></td>
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<td>1015</td>
<td><strong>Plenary 11:</strong></td>
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<td><strong>Updates from National Pharmaceutical Regulatory Agency on Clinical Trial Conduct in Malaysia</strong></td>
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<td><strong>Dr. Zarih Harza ZAKARIA</strong></td>
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<td>Senior Principal Assistant Director</td>
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<td>Head of Investigational Product Evaluation and Safety Section</td>
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<td>National Pharmaceutical Regulatory Agency</td>
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<td>Ministry of Health Malaysia</td>
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<td>1045</td>
<td><strong>Closing &amp; Dr. Wu Lien-Teh Research Award Competition Prize Giving Ceremony</strong></td>
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<td>Group photo session</td>
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<td>1130</td>
<td><strong>Closing Speech by Scientific Chairperson</strong></td>
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<td><strong>Dr. Alan FONG</strong></td>
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<td>Consultant Cardiologist</td>
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<td>Head of Clinical Research Centre</td>
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<td>Sarawak General Hospital, Sarawak</td>
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<td>1140</td>
<td><strong>Lunch and Adjourn</strong></td>
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Dr. Anand Mohan Mohana Lal
Consultant Paediatrician
Head of Paediatrics Department
Deputy Head of Clinical Research Centre
Bintulu Hospital, Sarawak
Malaysia

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

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

Dr. Adibah ALI
Consultant Breast and Endocrine Surgeon
Department of Surgery
Sarawak General Hospital, Sarawak
Malaysia

Dr. Mohana Lal
Consultant Paediatrician
Head of Paediatrics Department
Deputy Head of Clinical Research Centre
Bintulu Hospital, Sarawak
Malaysia
16th National Conference for Clinical Research (NCCR)
in conjunction with 20th Anniversary of the Clinical Research Centre, Sarawak General Hospital & Sarawak State Research Day

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

QUANTUM LEAP IN RESEARCH LEADERSHIP

INVITED FACULTY

Dr. LI EW Houng Bang
Consultant Cardiologist
Head of Clinical Research Centre
Queen Elizabeth II Hospital, Sabah
Malaysia

Dr. Mohamad Adam BUJANG
Research Officer and Statistician
Clinical Research Centre
Sarawak General Hospital, Sarawak
Malaysia

Datuk Dr. Muhammad Radzi Bin ABU HASSAN
Director-General of Health
Ministry of Health Malaysia

Associate Professor Dr. Mark Y. CHAN
Deputy Director
Cardiovascular Research Institute (CVRI) and Cardiovascular Disease Translational Research Program,
National University of Singapore (NUS)
Singapore

Professor Dr. Moo Hyun KIM
Cardiologist
Department of Cardiology
Dong-A University Hospital, Busan
Korea

Datuk Dr. Nor Fariza NGAH
Deputy Director-General of Health (Research & Technical Support)
Ministry of Health Malaysia
16th National Conference for Clinical Research (NCCR)
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QUANTUM LEAP IN RESEARCH LEADERSHIP

INVITED FACULTY

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

Ms. Norazida AB RAHMAN
Research Pharmacist
Centre for Clinical Outcome Research
Institute for Clinical Research, National Institutes of Health
Malaysia

Professor Dr. Sung Yong OH
Hemato/Medical Oncologist
Director of Clinical Trial Center, Dong-A University Hospital, Busan Korea

Dr. Nuraidah MOHD MARZUKI
Deputy Director at Health Informatics Centre Public Health Physician
Ministry of Health Malaysia

Professor Dr. Neelika MALAVIGE
Head of DNDi Dengue Global Programme & Scientific Affairs
DNDi South Asia
India

Professor Dr. Patrick THEN
Director, Centre for Digital Futures
Swinburne University of Technology, Sarawak Campus
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Hemato/Medical Oncologist
Director of Clinical Trial Center, Dong-A University Hospital, Busan Korea

Dr. Nuraidah MOHD MARZUKI
Deputy Director at Health Informatics Centre Public Health Physician
Ministry of Health Malaysia

Professor Dr. Neelika MALAVIGE
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DNDi South Asia
India
16th National Conference for Clinical Research (NCCR)
in conjunction with 20th Anniversary of the Clinical Research Centre, Sarawak General Hospital & Sarawak State Research Day

QUANTUM LEAP IN RESEARCH LEADERSHIP

INVITED FACULTY

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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

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 Datin Paduka Dr. TEO Soo Hwang, OBE
Chief Scientific Officer,
Cancer Research Malaysia
Adjunct Professor, University Malaya Medical Centre, Selangor
Malaysia

Professor Dr. YUEN Kah Hay
School of Pharmaceutical Sciences
Universiti Sains Malaysia (USM), Penang
Malaysia
MODERATORS

Dr. Alan FONG
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Head of Clinical Research Centre
Sarawak General Hospital, Sarawak
Malaysia

Mr. CHEW Chun Keat
Technical Head
Centre for Clinical Trial
Institute for Clinical Research
National Institutes of Health
Malaysia

Dr. Jack WONG Siew Yu
Public Health Physician
Head of Clinical Research Centre
Director of Miri Hospital, Sarawak
Malaysia

Dr. Jeremiah DING Deck Shen
Emergency Physician
Head of Clinical Research Centre
Bintulu Hospital, Sarawak
Malaysia

Dr. LIEW Houng Bang
Consultant Cardiologist
Head of Clinical Research Centre
Queen Elizabeth II Hospital, Sabah

Dr. Mohan Dass PATHMANATHAN
Research Medical Officer
Digital Health Research & Innovation Unit (DHRI)
Institute for Clinical Research, NIH
Ministry of Health Malaysia

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

Dr. WONG Toh Mee
Consultant Physician
Deputy Head of Clinical Research Centre
Sibu Hospital, Sarawak
Malaysia
16th National Conference for Clinical Research (NCCR)
in conjunction with 20th Anniversary of the Clinical Research Centre, Sarawak General Hospital & Sarawak State Research Day

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
How long does COVID-19 vaccine induced antibodies last?

Lee Jen Ven¹, Koh Karina¹, Yang Su Lan², Yen Chia How³, Chand Avinash Kumar⁴, Gokilavanan Varaalakshmy¹, Mohamed Nik Nur Eliza¹, Mat Ripen Adiratna⁵

¹Clinical Research Centre, Hospital Kuala Lumpur, ²Centre for Clinical Epidemiology, Institute for Clinical Research, ³Clinical Research Centre, Hospital Queen Elizabeth II, Kota Kinabalu, ⁴Occupational Health Department, Hospital Queen Elizabeth, Kota Kinabalu, ⁵Allergy & Immunology Research Centre, Institute for Medical Research

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.
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

Husin Masliyana¹, Jayaraj Vivek Jason², Suah Jing Lian³, Tok Peter Seah Keng¹, Omar Mohd Azahadi², Rampal Sanjay⁴, Peariasamy Kalaiarasu⁵, Sivasampu Sheamini⁵

¹Centre for Clinical Outcome Research, Institute for Clinical Research, ²Biostatistics and Data Repository Sector, ³Data, Analytics and Research, Central Bank of Malaysia, ⁴Department of Social and Preventive Medicine, Faculty of Medicine, University Malaya, ⁵Institute for Clinical Research

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.
Demographics and causes of premature deaths in the Sarawak LIFECARE cohort

Sie Ri Chie^1, Abdul Latif Nur Ariefah Syamimi^1, Lai Wei Hong^1, Tan Shirin Hui^1, Bujang Mohamad Adam^1, Khoo Sing Yee^1, Hamdan Afiq Aiman^1, Parveen Raihana^1, Wee Joe Fu^1, Yap Eileen Pin Pin^1, Tiong Lee Len^1, Fong Alan Yean Yip^1,^2, Tiong Xun Ting^1

^1Clinical Research Centre, Sarawak General Hospital, ^2Department of Cardiology, Sarawak Heart Centre

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

Abdul Latif Nur Ariefah Syamimi¹, Cassandra Chee Sheau Mei¹, Low Chui Thean², Lionel Victor Kemin¹, Jerry Gerunsin¹, Hamdan Afiq Aiman¹, Parveen Raihana¹, Wee Joe Fu¹, Sie Ri Chie¹, Tiong Xun Ting¹, Alan Fong Yean Yip¹,³, Tan Lu Ping²

¹Clinical Research Centre, Sarawak General Hospital, ²Molecular Pathology Unit, Cancer Research Centre, Institute of Medical Research, ³Department of Cardiology, Sarawak Heart Centre

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

Jong Rose Hui Chin¹, Igo Macnicholson¹, Sulaiman Mohammad Nor Azlan¹, Yeo Yenny Yen Yen¹, Yeo John Jui Ping Yeo¹, Chunggat Jawing¹, Khoo Sing Yee¹, Lim Tracy Loh Yung¹, Mustapha Maila², Fong Alan Yean Yip¹, Foo Diana Hui Ping¹

¹Clinical Research Centre, Sarawak General Hospital, ²Klinik Kesihatan Jalan Masjid, Sarawak

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 AI-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 AI-guided handheld POC ultrasound with AI-automated analysis and interpretation (AI-POCUS). All patients had AI-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 AI-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]. AI-POCUS yielded interpretable LVEF in 6 patients and LAVI in 5 patients. LVEF classification on AI-POCUS was concordant with TTE in 5 (83.3%) cases and discordant in 1 (16.7%) case. LAVI classification on AI-POCUS was concordant with TTE in all cases. The mean image acquisition time for AI-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.
Illness trajectories contributing to Malaysia’s palliative care needs: An 11-year retrospective study

Hing Nicholas Yee Liang¹, Yang Su Lan¹, Teoh Cindy Cy Oun², Leong Chin Tho¹, Woon Yuan Liang¹, Lim Richard Boon Leong²

¹Centre for Clinical Epidemiology, Institute for Clinical Research, ²Department of Palliative Care, Hospital Selayang

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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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.
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.
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: 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.
Diabetes app’s impact on glycemic control in a tertiary centre

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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.
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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.
VENUE
WATERFRONT HOTEL, KUCHING, SARAWAK

Perched on top of Plaza Merdeka Shopping Center, The Waterfront Hotel is located in the heart of Kuching City, where decades-old heritage buildings sit side by side with modern buildings. With one of the best views of the Padang Merdeka and the Sarawak River, the hotel is not only a place to rest, but a start of your adventures in Kuching City.

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- Independent congress highlight reports from Springer Healthcare
- Disease information across relevant specialties

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In order to access the platform and discover all its features please use the link below:

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ROADMAP TO BECOMING AN INVESTIGATOR

01 Specialist
Are you a specialist in your area of expertise?
Often consultants or specialists who are sought after to conduct clinical trials.

02 GCP
QUALIFICATION
Undergo Good Clinical Practice (GCP) training and pass the GCP examination.
Usually organised by CROs at MOH hospitals and by universities.

03 Register
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 the PI to gain needed experience in conducting clinical trials.

05 Perform
EXPERIENCE
Be a valued member in study teams. Perform your role as delegated by PI and always ensure standards of GCP are adhered to.

06 Feasibility
FEASIBILITY
Experienced investigator will be approached by CRM for new feasibility studies.
Questionnaires provided would need to be answered accurately within the timeline agreed.

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

08 PI
START UP
Awards 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.

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

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

SCAN TO REGISTER

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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

NOTABLE RESEARCH AREAS
- Oncology
- Haematology
- Respiratory
- Paediatrics
- Nuclear Medicine
- Orthopaedic
- Dermatology
- Rheumatology

ACREDITATIONS
- Australian Council on Healthcare Standards (ACHS)
- Malaysian Society for Quality in Health (MSQH)
- ISO 9001:2007

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

INTERNATIONAL COLLABORATIONS
- University of Cambridge
- Royal College of Physicians
- Harvard Medical School
- Monash University

Clinical Research Centre (CRC)
F-02-42, Block F, Sunway Geo Avenue, Jalan Lagoon Selatan, Bandar Sunway, 47500 Selangor, Malaysia
E-mail: sunmed-crc@sunway.com.my

OPERATION HOURS:
8.30 am - 5.30 pm
(except Weekends and Public Holidays)

+603-8601 1072

Sunway Healthcare
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.

A significant amount of milestone achievements for database locks, interim data analysis and cleaning have been achieved due to the hard work, teamwork and contributions of the participating hospitals and research teams.

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 Poo Faung 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

- Ulcerative Colitis
- Pulmonary Hypertension
- NSCLC
- Multiple Myeloma
- Colorectal Cancer

Disclaimer: Please note that the hospitals listed are those with ongoing Janssen trials and these are trials handled by Janssen directly. We acknowledge that our hospital/clinic trial list is more extensive if the outsourced studies are included and apologize if we could not include everyone in the acknowledgements. There have been many good research partners over the years.
NELSON WONG
CEO & FOUNDER
"I strongly believe in simplified processes, using technology to predict quality risk and develop out-of-the-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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SITE FEASIBILITY
PROJECT MANAGEMENT
CLINICAL BIOSTATISTICS
IP MANAGEMENT
QUALITY ASSURANCE
DATA MANAGEMENT
PHARMACOVIGILANCE & MEDICAL MONITORING
POST MARKETING & NEW DRUG APPLICATION

OUR PRESENCE

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.

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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 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 as; 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

**AWAWARENESS & COMMUNITY SERVICES**: Clindata Consult has presented as well as conducted various clinical research workshops, raising awareness among the clinical researchers on good practices particularly 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 people.
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- Keep up-to-date with the latest research publications with curated research summaries

Scan QR code to visit dengueacademy.my

Reference:
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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- Dr. Wu Lien-Teh Society, Penang