



# Conference Of Very Important Disease ( COVID-19 )

 **24 - 26 AUGUST 2020**

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## **Message from the Minister of Health, Malaysia**

It is my pleasure to welcome you to the 13th National Conference for Clinical Research 24-26, August 2020.

This year's theme Conference of Very Important Disease (COVID-19) feels particularly timely as people, organizations and governments around the world unite to fight the pandemic. Malaysia thus far has seen over 9200 people infected with COVID-19 and as a nation we have done well in managing the coronavirus outbreak. Malaysia responded to the COVID-19 pandemic by executing Movement Control Orders and we engaged in healthcare facilities upgrades to attain greater efficiency in resource use. We achieved a very commendable recovery rate of over 96% and our case fatality rate of 1.36% is amongst the lowest in the world. As we see signs of success, now more than ever, we need to forge ahead in containing any hidden chains of transmission to avoid a resurgence of the virus outbreak.

I am delighted that the NCCR2020 organising committee has arranged for a multi-disciplinary group of international and national experts to discuss work and research related to COVID-19. Research findings are instrumental in strategic planning and decision making in COVID-19 response, and events like this promotes top level research knowledge sharing on a topic of global concern.

In closing, I would like to express my appreciation to all involved for making this e-conference a possibility and wish all attendees a wonderful conference experience.



**YB Dato' Sri Dr. Adham Bin Baba**  
Minister of Health, Malaysia

## Message from the Director-General of Health, Malaysia

The National Conference for Clinical Research (NCCR), without a doubt, is a premier scientific meeting for all involved in clinical research in Malaysia. Now, in its 13th edition, I am pleased to see the NCCR2020 highlighting research given the current situation with the theme “Conference of Very Important Disease (COVID-19)”.

As we consider the past 9 months since the COVID-19 outbreak, we could never imagine the impact on our way of life in the present. We made significant lifestyle changes and adherence to Standard Operating Procedures; avoid ‘3C’ (Crowded place, Confined space, Close conversation) and practise ‘3W’ (Wash hands, Wear face mask, Warn). Likewise, we have seen strong research leadership in clinical trials through the WHO-led SOLIDARITY trial which is a source of great pride to the Ministry of Health Malaysia and a sign of continuing maturity of our researchers.

Malaysia’s relative success in responding to the COVID-19 was influenced by early pandemic preparedness and planning, contact tracing and testing, enhanced primary healthcare response, clinical guidelines by infectious diseases clinicians and movement control orders. As we reflect on these works, we also look to the future and the many opportunities that will come our way.

At the time of this e-conference, I want to express my thanks to the organizing committee, as well as, the panel of speakers, for their sincere effort of bringing COVID-19 research to the delegates. Congratulations and well done!



**Tan Sri Dato' Seri Dr. Noor Hisham bin Abdullah**  
Director General of Health  
Ministry of Health, Malaysia

## **Message from the Deputy Director-General of Health (P&ST), Ministry of Health (MOH), Malaysia**

It is my greatest pleasure to welcome you to the 13th National Conference for Clinical Research, NCCR2020. This year's virtual format "Conference of Very Important Disease (COVID-19)" is timely given the impact of the coronavirus pandemic.

This year's conference is especially unique. It is being conducted both in person as well as virtually with simultaneous broadcast of the presentations by our fellow speakers. This is the now the "new norm" of training, webinars and conferences in Malaysia and worldwide, which is especially effective during this pandemic period to share the interesting research findings by our fellow researchers.

I am very excited the conference will bring together distinguished speakers and experts to provide insights into research and technology in the battle against COVID-19. Technologies are playing a crucial role in a time of movement restrictions and quarantines. In some ways, it has brought connection to one another and opportunities for virtual research work.

Research provides opportunities in experiential learning for personal growth, community building, leadership development and enhances clinical working experience. I encourage our researchers to share their research findings through networking at this NCCR conference.

I wish all delegates an enjoyable conference and to the organisers a great success.



**Dr Hishamshah bin Ibrahim**  
Deputy Director General of Health (P&ST)  
Ministry of Health, Malaysia



## **Message from the Organising Chairperson of National Conference for Clinical Research**

The National Conference for Clinical Research (NCCR) is organized by the Association of Clinical Registries, Malaysia (ACRM); co-organized by Clinical Research Malaysia (CRM) and Collaborative Research in Engineering, Science and Technology Centre (CREST); supported by Institute for Clinical Research (ICR) and Ministry of Health (MOH); and managed by Anderes Fourdy Events. NCCR is an important annual research platform where renowned and experienced international and local speakers share their valuable research experience and findings.

The theme for our 13th NCCR, "Conference of Very Important Disease (COVID-19)", is carefully chosen to address the impact of COVID-19 pandemic to the current research trends and priorities. The amazing work of researchers in COVID-19 collaborating with various departments such as medical, intensive care, paediatrics, obstetrics & gynaecology, radiology, psychiatry, pathology, pharmacy, emergency care and many more are being highlighted in this conference.

On behalf of the organising committee, I would like to express my sincerest gratitude to our distinguished speakers and presenters for both Dr Wu-Lien Teh Research Awards Competition and Poster Presentations. Thank you also to our delegates for making this research conference possible during this challenging time!



**Dato' Dr Goh Pik Pin**

Organising Chairperson, NCCR 2020  
Director, Institute for Clinical Research,  
National Institutes of Health, Malaysia

## Organising Committee

Advisor	<b>Dr Hishamshah bin Mohd Ibrahim</b> Deputy Director-General of Health (Research & Technical Support) Ministry of Health, Malaysia
Chairperson	<b>Dato' Dr Goh Pik Pin</b> Director, Institute for Clinical Research, National Institutes of Health Ministry of Health, Malaysia
Co-chairperson	<b>Dr Akhmal Yusof</b> CEO, Clinical Research Malaysia (CRM) Malaysia
Scientific Committee Chairperson	<b>Dr Kalaiarasu M. Peariasamy</b> Deputy Director, Institute for Clinical Research (ICR) Ministry of Health, Malaysia
Scientific Committee Co-chairperson	<b>Mr Jaffri Ibrahim</b> CEO, CREST, Malaysia
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	<p><b>Dr Muhammad Fadhli Mohd Yusoff</b> Institute for Public Health</p> <p><b>Dr Wong Xin Ci</b> Institute for Clinical Research (ICR)</p> <p><b>Dr Woon Yuan Liang</b> Institute for Clinical Research (ICR)</p>
<p>Poster and Presentation Judges</p>	<p><b>Prof Dr Abhimanyu Veerakumarasivam</b> Sunway University, Malaysia</p> <p><b>Prof Dr Lai Nai Ming</b> Taylors University, Malaysia</p> <p><b>Prof Madya Dr Nik Sherina Haidi binti Hanafi</b> University of Malaya, Malaysia</p>



## Organising Sub-Committee

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(Usher and Protocol  
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	<b>Ms Nurakmal Baharum</b> Institute for Clinical Research (ICR)
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	<b>Dr Masliyana Husin</b> Institute for Clinical Research (ICR)
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	<b>Dr Johan Sng Koon Kuan</b> National Institutes of Health
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	<b>Dr Wan Afiqah Binti W. Md. Sabri</b> National Institutes of Health
Photographer	<b>Mr Alfian Zaidi Bin Mohamad Yusof</b> National Institutes of Health
	<b>Ms Intan Noor Farhana Masni</b> National Institutes of Health
	<b>Mr Kelly Ngit Khang</b> National Institutes of Health

# Conference Programme

## DAY 1: 24 AUGUST 2020 (MONDAY)

0830 - 0930	<b>Dr Wu Lien-Teh Young Investigator Presentation</b>
0930 - 0945	<b>Welcome Speech by Scientific Chairperson</b> Dr Kalaiarasu M Peariasamy, Senior Consultant & Head, Institute Clinical Research, National Institute of Health (NIH), Malaysia
1000 - 1100	<b>Opening Ceremony</b> <ul style="list-style-type: none"> <li>■ <b>Opening Address by Organising Chairpersons</b>              Dato' Dr Goh Pik Pin, Director, Institute for Clinical Research, National Institute of Health (NIH), Malaysia              Dr Akhmal Yusof, Chief Executive Officer, Clinical Research Malaysia (CRM), Malaysia</li> <li>■ <b>Contributions by National Institute of Health in COVID-19</b>              Dr Hishamshah Mohd Ibrahim, Deputy Director General of Health (P&amp;ST), Ministry of Health (MOH), Malaysia</li> <li>■ <b>Officiating Speech &amp; Launching of NCCR 2020</b>              YB Dato' Sri Dr Adham Bin Baba, Minister of Health (MOH), Malaysia</li> <li>■ <b>Dr Wu Lien-Teh Awards</b></li> </ul>
1115 - 1200	<b>CRC Named Lecture: Battling Against COVID-19</b> Moderator: Dato' Dr Goh Pik Pin, Director, Institute for Clinical Research, National Institute of Health (NIH), Malaysia Speaker: Tan Sri Dato' Seri Dr Noor Hisham Abdullah Director General of Health, Ministry of Health (MOH), Malaysia
1220 - 1300	<b>Plenary Talks: Sharing Experience and Handling COVID-19 During the Peak of Pandemic</b> Moderator: Dato' Dr Goh Pik Pin, Director, Institute for Clinical Research, National Institute of Health (NIH), Malaysia
1220-1240	<ul style="list-style-type: none"> <li>■ <b>Plenary 1: Public Health Priorities in COVID-19</b></li> </ul>

1240-1300	<p>Speaker: Dato' Dr Chong Chee Kheong Deputy Director-General of Health (Public Health), Ministry of Health (MOH), Malaysia</p> <p>■ <b>Plenary 2: Holistic Hospital Preparedness Strategies Against Impending COVID-19 'Tsunami': Ready for The Worst, Striving For The Best</b></p> <p>Speaker: Datuk Dr Hj Rohaizat Bin Hj Yon Deputy Director-General of Health (Medical), Ministry of Health (MOH), Malaysia</p>
1300 - 1430	Virtual Poster Viewing
1430 -1510	<p><b>Symposium 1</b></p> <p>Moderator: Dr Lo Ying-Ru Jacqueline, WHO Representative Malaysia, Brunei, Singapore</p>
1430 -1450	<p>■ <b>Public Health Collateral Damage</b></p> <p>Speaker: Dr Yap Wei Aun Health System Analyst, Ministry of Health (MOH), Malaysia</p>
1450 -1510	<p>■ <b>Lies, Myths, Facts and Modeling in COVID-19</b></p> <p>Speaker: Mr Law Kian Boon Digital Health Unit, Institute for Clinical Research, National Institute of Health (NIH), Malaysia</p>
1510 -1600	<p><b>Plenary 3: Artificial Intelligence to Predict Avoidable Harm in COVID-19</b></p> <p>Moderator: Dr Lo Ying-Ru Jacqueline, WHO Representative Malaysia, Brunei, Singapore</p> <p>Speaker: Dr Richard A D Jones President and Chief Strategy Officer, C2-Ai Precision Healthcare – Ai Driven   Saving Lives – Reducing Harm and Variation Cambridge, United Kingdom</p>



## DAY 2: 25 AUGUST 2020 (TUESDAY)

1030 - 1100	Virtual Poster Viewing
1100 - 1140	<b>Symposium 2</b> Moderator: Dr Fazilah Shaik Allaudin, Deputy Director, Planning Division, Ministry of Health Malaysia (MOH), Malaysia
1100 - 1120	<b>■ Emergency Transition and Experiential Learning during COVID-19 Disruption: The Rise of Webinar Era</b> Speaker: Dr Chew Cheng Hoon Institute for Clinical Research, National Institute of Health (NIH), Malaysia
1120 - 1140	<b>■ Key Strategies in the Pandemic Preparedness as COVID-19 Hospital</b> Speaker: Dr. Kuldip Kaur a/p Prem Singh Hospital Director, Sungai Buloh Hospital, Malaysia
1140 - 1230	<b>Plenary 4: COVID-19 &amp; the Future: New Paradigms in Medicine &amp; Healthcare</b> Moderator: Dr Fazilah Shaik Allaudin, Deputy Director, Planning Division, Ministry of Health Malaysia (MOH), Malaysia Speaker: Professor Dr Ogan Gurel Daegu Gyeongbuk Institute of Science and Technology (DGIST), South Korea
1230 - 1430	Virtual Poster Viewing
1430 - 1510	<b>Symposium 3</b> Moderator: Datuk Dr Christopher Lee, Former Deputy Director General of Health (P&ST) Ministry of Health Malaysia (MOH), Malaysia
1430 - 1450	<b>■ COVID-19 Vaccine – Where are we?</b> Speaker: Professor Kiat Ruxruntham Professor of Medicine, Chulalongkorn University, Thailand
1450 - 1510	<b>■ SARS-Cov-2: The Available Testing Platforms And Their Utility In Diagnosis</b>

Speaker: Dr. Ravindran Thayan  
Head of Virology Unit, Infectious Diseases Research Centre, Institute for  
Medical Research( IMR), Malaysia

1510 - 1600

**Plenary 5: Doing Clinical Trials During Pandemics**

Moderator: *Datuk Dr Christopher Lee, Former Deputy Director General of  
Health (P&ST) Ministry of Health Malaysia (MOH), Malaysia*

Speaker: Professor Marissa Alejandria  
University of the Philippines College of Medicine, Manila, Philippine  
President of the Philippine Society for Microbiology and Infectious Diseases

## DAY 3: 26 AUGUST 2020 (WEDNESDAY)

1000 - 1030 Virtual Poster Viewing

1100 - 1140

### **Symposium 4: NIH COVID-19 Research Presentation**

Moderator: Dr Kalaiarasu M Peariasamy, Institute Clinical Research, National Institute of Health (NIH), Malaysia

- **Molecular Characterisations Of SARS-Cov-2 From Five Clusters In Malaysia**

Speaker: Dr Jeyanthi Suppiah

Research Officer, Institute for Medical Research, National Institute of Health (NIH), Malaysia

- **Hydroxychloroquine In COVID-19: What Have We Learnt?**

Speaker: Dr Cheah Wee Kooi

Physician & Geriatrician, Hospital Taiping, Malaysia

- **COVID-19 Clinical Characterisation In Malaysia**

Speaker: Dr Benedict Sim Lim Heng

Infectious Diseases Consultant, Hospital Sungai Buloh, Malaysia

- **Seroprevalence Of Anti-SARS-Cov-2 Antibodies Among Healthcare Workers In Malaysia**

Speaker: Dr Woon Yuan Liang

Head CCE, Institute for Clinical Research, National Institute of Health (NIH), Malaysia

- **Knowledge And Attitude In Predicting COVID-19 Prevention Behaviour: What Research Says And What Is The Reality?**

Speaker: Dr Manimaran a/I Krishnan Kaundan

Institute for Health Behavioural Research, National Institute of Health (NIH), Malaysia

1140 - 1230

### **Plenary 6: COVID-19 Clinical Updates**

Moderator: Mr Jaffri Ibrahim, Chief Executive Officer, Collaborative Research in Engineering, Science and Technology Centre (CREST), Malaysia

	<p>Speaker: Dr Suresh Kumar Chidambaran Head of Medicine &amp; Infectious Disease Consultant, Sungai Buloh Hospital, Malaysia</p>
1245 - 1300	<b>e-Poster Prize Award</b>
1430 - 1715	<p><b>Technology &amp; Innovation in Healthcare (organised by Collaborative Research in Engineering, Science and Technology Centre (CREST))</b></p> <p>Moderator: Mr Stuart J. Venner Pack, Managing Director, Medical Opinion Asia, Malaysia</p>
1430 - 1545	<p><b>Session 1: Shaping The Future of Healthcare Innovation</b></p> <ul style="list-style-type: none"> <li>■ Dr Kalaiarasu M. Peariasamy, Senior Consultant &amp; Head, Institutes of Clinical Research, National Institutes of Health (NIH), Malaysia</li> <li>■ Colonel Dr Mohd Arshil Moideen, Ministry Of Defence Malaysia (MinDef), Malaysia</li> <li>■ Ms Nordina Idris, Division Secretary, Strategic Technology and S&amp;T Application Division, Ministry of Science, Technology &amp; Innovation (MOSTI), Malaysia</li> <li>■ Prof Dr Ogan Gurel, Distinguished Invited Professor, Daegu Gyeongbuk Institute of Science and Technology (DGIST), South Korea</li> </ul>
1600 - 1715	<p><b>Session 2: How Innovation In Healthcare Is Leading The Way In The Fight Against COVID-19</b></p> <ul style="list-style-type: none"> <li>■ Dr Dzahar Mansor, National Technology Officer, Microsoft Malaysia.</li> <li>■ Mr Yew Kian Seng, Technical Business Consultant, IME Group of Companies, Malaysia</li> <li>■ Mr Abdul Halim Md Lassim, Chief Executive Officer, HeiTech Managed Services, Malaysia</li> <li>■ Mr Jaffri Ibrahim, Chief Executive Officer, Collaborative Research in Engineering, Science and Technology Centre (CREST), Malaysia</li> </ul>
1715 - 1730	<p><b>Closing Remark by Scientific Chairperson</b></p> <p>Dr Kalaiarasu M Peariasamy, Senior Consultant &amp; Head, Institute Clinical Research, National Institute of Health (NIH), Malaysia</p>

## Speakers' Profile

### CRC Named Lecture

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**Tan Sri Dato' Seri Dr  
Noor Hisham Abdullah**

Dr Noor Hisham Abdullah is a Senior Consultant Surgeon in Breast and Endocrine Surgery, Putrajaya Hospital and the current Director General of Health Malaysia since March 2013. Prior to that, he was the Deputy Director General of Health (Medical) between January 2008 and February 2013.

His area of expertise is in breast endocrine cancers, with numerous published papers and textbook chapters in endocrine surgery. He trained in breast and endocrine surgery under the Royal Australasian College of Surgeons Fellowship training programme and obtained his Master of Surgery and Medical Degrees from the National University of Malaysia.

He chairs multiple medical professional councils and national-level technical committees and is actively involved as a policymaker in global organisations such as the World Health Organization (WHO) and the Drugs for Neglected Diseases initiative (DNDi). He is also a Councillor-at-Large (2017-2021) in the Executive Board of the International Society of Surgery (ISS) and chairs the Global Surgery Committee of ISS. In March 2020, he was elected as the Chairman of the Asian Association of Endocrine Surgeons.

Dr Noor Hisham has been conferred numerous local and international awards including the prestigious Fellowship Ad Hominem of the Royal College of Surgeons of Edinburgh in 2018 for his contributions toward healthcare. In 2019, he was given the honour to deliver the distinguished Martin Allgöwer Lecture at the 48th World Congress of Surgery in Krakow, Poland.

His special interest lies in enhancing universal healthcare coverage to marginalised communities and bringing personalised healthcare back to the community and home through digital technology and creative innovation.

## PLENARIES



### **Dato' Dr Chong Chee Kheong**

Dr Chong is the Deputy Director General Of Health (Public Health) of Malaysia. He was formerly the Director of NPHL 2009, Head of VBDC 2010 and Director of Disease Control 2011. He obtained his medical degree (MBBS) from University Malaya in 1986, Masters of Public Health (University Malaya) in 1990, gazetted as a public health specialist 2003 and certification as field epidemiologist 2006. Currently, he is lead implementer for ASEAN EOC project at the regional level and at the national level sits on several board including LMO, Biosafety, Mental health, OSH and Road Safety. His latest publication is Southeast Asia Strategic Multilateral Dialogue on Biosecurity published in EID CDC journal. His personal interest is in environmental conservation.



### **Datuk Dr Hj Rohaizat Bin Hj Yon**

Retired on 10th June 2020 as the Deputy Director-General of Health (Medical), MOH. Reemployed on short term contract at the same post since 6 August 2020. A medical doctor by profession and also a Public Health Specialist with subspecialty in health management, health economics and financing. Obtained Master Degree in Health Planning and Doctor of Philosophy (PhD) in Public Health majoring in Health Financing, Health Economics and Casemix.

Written more than 60 publications and have completed more than 80 health related presentations at national and international level. Together with various divisions in MOH, lead and authored the first comprehensive book on the development of health services in Malaysia existed during pre-independence, entitled 'Health in Malaysia: Achievements and Challenges'. Also one of the authors of the first Malay Version of Health Economics book, in collaboration with Dewan Bahasa and Pustaka, UKM, USM and United Nation University (UNU). It is the first book in Bahasa Malaysia that utilizes local data.





## Dr Richard Jones

Richard was a COGX keynote speaker on the Global Leadership stage and won (with C2 Ai) two awards including the prestigious Tech4Covid award. The company is one of '10 Essential Digital Health Ideas for a UK National Covid Response' according to Healthcare UK.

With over 30 years in advanced technology, including in Malaysia, Richard has extensive experience as an entrepreneur, in strategy development, business planning/modelling, and creating commercial implementations for companies. He has co-founded businesses across four continents that have delivered up to 300x returns on the first round and been interviewed a number of times by the BBC.

He is the only private sector member of a national regulator's synthetic AI patient record and medical AI software validation project. He proudly is the AI lead for the charity Patient Safety Learning and in addition to his work at C2-Ai, he holds positions in other Ai-based and telecoms businesses.

He is the author of three business books translated into multiple languages. Richard has a bachelor's degree, masters equivalent, received an MBA with distinction from the Warwick Business School and has paused his doctorate in technology strategy.



## Professor Ogan Gurel

Dr Ogan Gurel holds academic appointments as a Visiting Professor at the Solbridge International School of Business and Visiting Teaching Professor at DGIST (Daegu Gyeongbuk Institute of Science & Technology), with previous DGIST positions as Vice-Chair & Distinguished Invited Professor in the Management of Innovation program. In the innovation world, Dr. Gurel is also Chief Strategy Officer at CTCells, Chief Marketing Officer for Eidware / SoundMind (Seoul), Advisor for the CREST-Malaysia Digital Health Cluster and a Venture Partner at The Yozma Group, with previous executive roles as Chief Scientific Officer for FRT – Field Robot Technology, CEO at NovumWaves (Seoul), Acting Chief Medical Officer at Nessa Hearing (Singapore), and Advisor at Frasen (Seoul).

Ogan served over four years as a Director in the CTO office (MOT & Open Innovation groups) at the Samsung Advanced Institute of Technology (SAIT) and prior to that was VP & Medical Director at Sg2, a leading U.S.-based healthcare consultancy. Dr. Gurel's over 35 years of experience spans multiple sectors: biomedical science, clinical medicine, strategy consulting, marketing, business development, executive management, marketing, and R&D

management, with domain expertise in medical devices, digital healthcare, healthcare IT, molecular biophysics, and medical imaging.

Prior to surgical training at the Massachusetts General Hospital, he obtained an MD degree Alpha Omega Alpha from Columbia University, also doing graduate work in structural biology (M.Phil degree) and earned a Bachelor's in Biochemical Sciences cum laude from Harvard College. Authoring 14 peer-reviewed scholarly papers, presenting nearly 200 conference proceedings and co-inventor on ten patent applications (four granted), Dr. Gurel has also given keynote addresses and other speeches at business and scientific conferences and seminars worldwide.



### **Professor Marissa Alejandria**

Dr Alejandria is a Professor of Clinical Epidemiology and Infectious Diseases at the University of the Philippines-College of Medicine. Her research expertise is on the conduct of epidemiological researches, health care quality improvement researches, health policy and systems research and developing systematic reviews and clinical practice guidelines. Dr Alejandria currently serves as a member of the COVID-19 Technical Advisory Group for the Department of Health and is the National Project Coordinator for the WHO SOLIDARITY Trial of the Philippines. She co-coordinates the COVID-19 Study Group at the University of the Philippines – Manila and the development of rapid evidence reviews on COVID-19 management. Through the PSMID, she coordinated the development of the living clinical practice guidelines on the management of COVID-19, including infection prevention guidelines which are constantly being updated. She has participated in webinars in the country particularly on the treatment landscape of COVID-19.

She is a Philippine-board certified internist and adult infectious disease specialist with a Master of Science in Clinical Epidemiology (UP College of Medicine) and a Master of Science in Clinical Tropical Medicine (Mahidol University, Thailand). She is a Fellow of the Philippine College of Physicians and the Philippine Society for Microbiology and Infectious Diseases. She completed her medical degree at the University of the Philippines-College of Medicine and her residency training in Internal Medicine and clinical fellowship in Infectious Diseases at the UP-Philippine General Hospital.

Dr Alejandria has more than 10 years of experience in clinical epidemiology research and clinical management of infectious diseases. She has completed epidemiologic studies on

antimicrobial resistance, sepsis, leptospirosis, dengue, HIV, pneumonia and UTI. In addition, Dr Alejandria has done health policy research and evaluation of component programs for tuberculosis in the Department of Health. She recently participated in the 2016 National TB Prevalence Survey as Deputy Director of the project.



### **Dr Suresh Kumar Chidambaran**

Dr Suresh graduated with an MBBS from the University of Kerala, India in 1993. He then obtained his MRCP (UK) in 1999 from the Royal College of Physicians in UK and Postgraduate diploma in epidemiology in 2009 from London school of Hygiene and Tropical Medicine. He obtained his infectious diseases training in Hospital Kuala Lumpur and Alfred Hospital, Melbourne, Australia. He has been Infectious Diseases Consultant in Hospital Sungai Buloh since 2003. He is also a visiting consultant for the National Heart Institute (IJN).

He has participated in several international HIV treatment trials and has served on expert panels for national treatment and practice guidelines relating to infectious diseases including COVID-19, HIV, Dengue, Adult Immunisation, and National antibiotic guidelines . Dr Suresh is actively involved in the Infectious diseases fellowship programme in the country. He is the Past President of the Malaysian Society for HIV Medicine, MASHM.

## SYMPOSIUM / WEBINAR



### **Dr Yap Wei Aun**

Dr Wei Aun Yap's clinical career involved working in a wide range of clinical settings and specialties, starting in the northeast of England with NHS England, and progressing to remote district hospitals in Sibu and Limbang, Sarawak, and with the Intensive Care Unit at Hospital Kuala Lumpur, the largest in the country, as his last clinical posting.

More recently, he has been involved in health systems and social protection, working with the World Bank in Lao PDR, Indonesia, and Malaysia. Key topical areas include maternal, newborn, and child health (MNCH), nutrition, human resources for health (HRH), health financing, and supply-side readiness. He was also involved in the design and analysis of various surveys involving households, health workers, and health facilities. Wei Aun also served as Country Technical Director for the Malaysia Health Systems Research collaboration with the Malaysian Ministry of Health, to support the government's efforts "to strengthen the Malaysian health system".

Recent publicly disclosed research includes the Malaysia Health Systems Research Volume I: Contextual Analysis of the Malaysian Health System and various World Bank reports.



### **Mr Law Kian Boon**

William Law is an experienced pharmacist researcher and statistician, who has constructed an accurate mathematical model to predict the trend of COVID-19 during the movement control order for Malaysia. Driven by his interest in mathematical modelling, he takes pride in providing the best to the country and the organization.



### **Dr Chew Cheng Hoon**

Dr Chew Cheng Hoon, MD, MPH, is a medical doctor at the Institute for Clinical Research, National Institutes of Health (NIH) Malaysia and a Doctorate of Public Health candidate with The National University of Malaysia (UKM).

She is GCP certified and has 10 years of experience in both industrial sponsor trials (drugs and technology) and investigator initiated trials. She has passion and skill in ICT and has achieved the following: [1] development of hospital information system and won the 2012 Ministry of Health Malaysia's National Creative and

Innovation Convention award. [2] mentoring a few teams of technopreneurs from idea to prototype and her teams won the Telemedicine Innovation Challenge in Malaysia Telemedicine Conference. Subsequently, one of the teams secured Cradle Fund for further R&D.

She initiated the Clinical Updates in COVID-19 webinar series under Institute of Clinical Research, NIH during COVID-19 pandemic. The aim of the COVID-19 webinar is to share the latest MOH clinical updates and experience in managing COVID-19 to all healthcare professionals and allied health for free in various formats (videos, podcasts and e-books).



### **Dr Kuldip Kaur a/p Prem Singh**

Dr. Kuldip Kaur A/P Prem Singh is a qualified medical doctor and hospital administrator with outstanding leadership qualities. She has a strong academic background in Masters of Hospital Administration and Masters of Public Health. She was the Director of Hospital Kajang from 2009 till May 2016. Then she promoted as Deputy Director of Hospital Kuala Lumpur from May 2016 till 9th September 2019. Beginning from 10th September 2019, Dr Kuldip holds the position as Director of Hospital Sungai Buloh, Selangor.

Dr. Kuldip is an achiever in many aspects notably: Kesatriaan Pemangku Negara, KMN (2016); Certificate of Excellent Service (2013, 2006 and 2000) and Evaluation of Course Efficiency Level 4 (2006).

Dr. Kuldip has received many awards for Innovation and Teamwork. She was awarded the 2nd place for the Implementation of Infection Control (2010); 2nd place for Quality Assurance (2010) and 3rd place in the Innovation Competition (2010) among several other awards. She has received many Non-Governmental awards for her ardent participation in social activities.



### **Professor Kiat Ruxrungtham**

Kiat Ruxrungtham, MD, is a Professor of Medicine, Department of Medicine Chulalongkorn University; and Scientific Chair of the Chula Vaccine Research Center (ChulaVRC).

He is providing teaching and patient care at the King Chulalongkorn Memorial Hospital, Faculty of Medicine, Chulalongkorn University; and is mentoring junior researchers on HIV, vaccine, immunology research and also on clinical trials. He has published more than 280 peer review papers on HIV, immunology and allergy.

He is a faculty member of the faculty 1000 of Medicine, an editorial

board member of the Scientific Report, Asia Pacific J of Allergy and Immunology, and ImmunoTargets and Therapy. He is also a reviewer for > 10 journals.



### **Dr Ravindran Thayan**

Dr Ravindran is a Molecular Virologist by training and is currently the Head of Virology Unit, Infectious Diseases Research Centre, IMR. He is also the Director of WHO National Influenza Centre as well as Coordinator for the WHO National Polio Laboratory. Research interests include viral diseases of public health importance including dengue, influenza, zika, chikungunya, polio and COVID-19 among others. He has been with Virology Unit IMR since 1992 and has been involved in viral outbreak investigation including COVID-19, Polio virus and Measles in 2019, Rabies in 2018, Zika in 2016, Ebola, MERS-CoV and Avian influenza in 2014 and Pandemic Influenza H1N1 in 2009 among others. He is a member of several expert panels including IMR, MOSTI, CREST R&D Grant application as well as Virology Expert Panel for Ministry of Health Malaysia.



### **Dr Jeyanthi Suppiah**

Dr Jeyanthi Suppiah is a Research Officer in the Virology Unit, IMR, IDRC, NIH, with 11-years working experience. Her primary research interests are the application of molecular biology techniques and bioinformatics data analysis for detection of viruses including Dengue, Hepatitis B, Influenza and COVID-19. Dr Jeyanthi holds a PhD in Medical Microbiology from Universiti Putra Malaysia (UPM). She was the recipient of Biasiswa Yg Di Pertuan Agong for her PhD studies. Among other awards received are Faculty award for Best PhD Thesis (2019), and Journal Publication Award UPM (2019).



### **Dr Cheah Wee Kooi**

Dr Cheah Wee Kooi is Physician and Geriatrician, currently the Head of Department of Medicine and Clinical Research Centre of Taiping Hospital. He is a member of the Taiping Hospital COVID-19 Readiness Task-force committee and the COVID-19 clinical lead in the same hospital. He has published several publications with regards to COVID-19 in Malaysia, locally and internationally.





### **Dr Benedict Sim Lim Heng**

Dr Benedict Sim graduated with MBBS in 1998 from Universiti Malaya and obtained his post graduate MRCP qualifications in 2003 from the UK. He then specialised in Infectious disease under the Malaysian Ministry of Health training program which culminated in a 1 year attachment with the Victorian Infectious Disease Unit in Royal Melbourne Hospital in 2009. Since then, Dr Benedict Sim has served as an infectious disease consultant in Hospital Sungai Buloh and a visiting consultant to other Klang Valley Hospitals and state hospitals in Malaysia. He has published papers in many fields of infectious disease including HIV, infection control, dengue, TB, antimicrobial stewardship etc. He sits on national and state committees that oversee efforts in prevention and treatment of novel infections, antimicrobial stewardship, HIV care, dengue mortalities, TB programs and other infectious disease prevention, control and treatment programs.



### **Dr Woon Yuan Liang**

Dr Woon Yuan Liang is presently the Head of Center for Clinical Epidemiology, Institute for Clinical Research. He graduated from the International Medical University (IMU) in 2012 and obtained his Master of Public Health from University of Malaya (UM) in 2017.

Dr Woon has been with the Institute for Clinical Research since 2015. A significant portion of his previous research projects were very much related to infectious disease. He had numerous international peer-reviewed publications focusing on dengue disease; and received multiple invitations from various international journals as a peer reviewer. One of his previous works was related to dengue seroprevalence in Malaysia, and its findings had contributed to the decision making on dengue vaccine registration. During this COVID-19 pandemic, Dr. Woon and his team involve in multiple epidemiological studies related to COVID-19 and its collateral damage towards Malaysian healthcare system. His team is also currently looking into Malaysians' perception and acceptability towards COVID-19 vaccination.

Other than infectious disease, Dr. Woon also has special interest on cancer and palliative care. In the past year, his team had received research grants worth more than RM500,000 to look into the timeliness of cancer patients' journey from symptoms presentation to treatment initiation; as well as the preferred and actual place of death among palliative care patients.



### **Dr Manimaran a/I Krishnan Kaundan**

Dr. Manimaran Krishnan is at present the Director of Institute for Health Behavioural Research, National Institutes of Health, Ministry of Health, Malaysia. Previously he was appointed as the Chief Executive Officer for Malaysia Health Promotion Board (MySihat). Dr. Manimaran joined MOH as Health Education Officer in 1991, and his first posting was at the Institute for Public Health, followed by posting at Division of Disease Control, Hospital Serdang and IHBR. He has completed his PhD in Health Psychology & Communication (UKM) and B. Jurisprudence Hons (Law) (UM). Apart from his vast experience in the field of Health Education and Health Promotion for nearly 30 years, he is also a strong advocate in strengthening the community empowerment and behavioural change initiatives for Malaysian populations.



### **Dr Kalaivasu M. Peariasamy**

Dr Kalaivasu graduated with a BDS degree from the University of Malaya in 1985. He subsequently went to the UK where he undertook postgraduate training at the Royal London Hospital, and obtained his Masters' degree in Children's Dentistry (MSc) from the University of London in 1992, and the Fellowship in Dental Surgery (FDSRCS) from the Royal College of Surgeons of England in 1993.

He completed his CCST (UK) at the Barts and London Hospital, and the Intercollegiate Membership in Paediatric Dentistry from the Royal College of Surgeons of England and the Royal College of Physicians and Surgeons of Glasgow in 2001. He obtained the Fellowship in Dental Surgery of RCSP Glasgow in 2016, and RCS Edinburgh in 2017.

He is an invited speaker to various national and international conferences on topics related to oral injuries, oral lesions and oral surgery in children. He is on the International Editorial Board of Journal of Indian Society of Pedodontics and Preventive Dentistry, and reviewer for Dental Traumatology.

Dr Kalaivasu has published widely in indexed journals and authored chapters on "Cleft Lip & Palate" in 3rd Edition Textbook of Paediatric Dentistry. He is Adjunct Professor, Taylor's School of Medicine and Deputy Director, Institute for Clinical Research, NIH Malaysia.



### **Colonel Dr Mohd Arshil Moideen**

Graduated from International Islamic University Malaysia in 2003. Joined the Malaysian Army from MOH end of 2004. Obtained Masters in Public Health (Clinical Epidemiology) from University of Sydney in 2009 and DrPH from UPM in 2016. Was also trained in Underwater Medicine (Australia), Operational Medicine (ISAF) and Diploma in Family Medicine (AFPM).

Attended various military tactic courses and served in Aceh Tsunami 2004, Western Sahara, Mauritania, Algeria, East Timor, Lebanon, Afghanistan, Tacloban, Typhoon relief and Cox's Bazar, Bangladesh as the Chief Planner & Technical Advisor and later as the Commander of the Malaysian Field Hospital for Rohingya Refugees mission. Patent holder for 2 field water treatment systems and have obtained many local and international awards for his work on Field Water Treatment and Health related HADR missions.

Recently he was the key Liason Officer for MAFHS in CPRC MOH and later as the deputy director Pusat Kuarantin dan Rawatan COVID-19 MAEPS where the use of innovative technologies were being employed under his purview.



### **Ms Nordina Idris**

Ms Nordina Idris joined MOSTI (Ministry of Science, Technology & Innovation) in 1996 as a Deputy Director, responsible for managing the Intensification of Research in Priority Areas (IRPA) and National Science Fellowship (NSF) grants. With more than 24 years' experience, Ms Nordina has held various positions that were related to the development of biotechnology, infrastructure and IoT strategic planning for R&D by working closely with key players from the industry, academia and the ministry.

To date, she is the Division Secretary for Strategic Technology and Application S&T in MOSTI. She holds responsibility in key strategic technology planning in the area of biotechnology, nanotechnology, aerospace, digital and ICT. She also oversees strategic planning between the Ministry and Institutions in enrolling Science & Technology policy, National Biotechnology policy and sharing information in AI/BDA/Deep Learning in MOSTI and other agencies.



### **Dr Dzahar Mansor**

Dr Dzahar received a First-Class Honors Degree in Computer Systems Engineering from Monash University, Australia in 1985, and completed his PhD in Computer Science in 1988. Dr Dzahar joined Microsoft in 2005 and has more than 33 years of professional experience in ICT and telecommunications in senior leadership, engineering, research as well as academic roles.

In 2010, he had the honor of leading the Business Services Economic Transformation Program (ETP) Labs, and in 2018 appointed a committee member of the National Education Policy Review Council. He also presently is an Adjunct Professor at International Islamic University Malaysia (IIUM) and member of Industrial Advisory Panels at several other universities where he works closely with academia and has publications as well as professional certifications and recognition in Data Science, Artificial Intelligence, Cyber Security, Software Engineering, Computer Architectures Telecommunications and Digital Transformation. He also holds several associate positions at PIKOM, MQA, Department of Standards/SIRIM and others.

Dr. Dzahar is passionate about technology and aspires to contribute towards the nation's Digital Economy initiative and has contributed in a number of national strategic publications in the areas of Data Science, Cybersecurity, Technology Foresight, Computing, Telecommunications, Economic Transformation and Education.



### **Mr Yew Kian Seng**

Mr Yew Kian Seng has more than 18 years of experience in the manufacturing industry. He has managed more than 25 product development projects which include the complete process from R&D to production to marketing. He was involved in process improvement projects, and created engineering systems that automate industrial tasks. He also developed mechatronic solutions as well as electronic control systems.

He performs his expertise in business development, strategic planning and championed numerous cost reduction projects. He now provides business and technical consultation in strategic planning, automation, lean manufacturing and Industry 4.0 implementation; he had successfully implemented MES, big data analytics, A.I and production improvement related projects.



### **Mr Abdul Halim Md Lassim**

Abdul Halim joined HeiTech in 2000 as Finance Manager responsible in assisting HeiTech during its flotation exercise. Prior to joining HeiTech, Abdul Halim was attached to Hanafiah Raslan and Mohammad for five (5) years performing auditing, corporate finance and corporate recovery related assignments. In HeiTech, he served as Chief Financial Officer and Vice President in 2002 and later promoted to Senior Vice President in 2005.

In 2008, he was appointed as CEO of HeiTech Managed Services (HMS), focusing on end-to-end ICT Infrastructure solutions. In 2013, he was also entrusted as CEO of HeiTech i-Solutions Sdn. Bhd. to oversee the financial services industry. Abdul Halim is a council member of the Malaysian Institute of Certified Public Accountants (MICPA) and also serves as the Chairman of the Young Certified Public Accountants of MICPA.



### **Mr Jaffri Ibrahim**

Jaffri is the founder CEO of Collaborative Research in Engineering, Science and Technology (CREST). He began his career as an entrepreneur that built an information service in Klang Valley in 1986. He later joined Oracle Corporation Malaysia in 1990 as a consultant in the professional services organization. He started his own technology consulting business in 1994 focusing on the Oil & Gas industry. Jaffri rejoined Oracle Corporation as Managing Consultant at the onset of Malaysia's MSC program.

He later joined Arthur Andersen's Business Consulting division in 1998 and then the Technology Consulting and Technology Integration Services group at Cap Gemini, Ernst & Young in 2002. Prior to joining CREST he was Vice President of Business and Technology Advisory Division of Malaysia Debt Ventures (MDV) Bhd., a Venture Debt company under Minister of Finance, Inc. that facilitates the development of Information and Communications Technology (ICT), Biotechnology, Green Technology and other emerging technology sectors via innovative financing.

Jaffri obtained his B.Sc. from the University of Iowa, Iowa City, USA where he majored in Computer Science and minored in Business Studies.

## MODERATORS



### **Dato' Dr Goh Pik Pin**

Dato' Dr. Goh Pik Pin is currently the Director of the National Clinical Research Centre, overlooking the management and operations of 31 Clinical Research Centres throughout Malaysia. An avid advocate of research, she was previously a Consultant Ophthalmologist at Selayang Hospital.



### **Dr Lo Ying-Ru Jacqueline**

Dr Lo Ying-Ru Jacqueline is an infectious disease physician from Hamburg, Germany who took up her duties at the World Health Organization (WHO) in 1998. With over three decades of work experience as a clinician and public health adviser, Dr Lo has worked in Europe, Latin America, Asia and the Pacific and has held positions at all three levels of the Organization. Dr Lo's particular interest lies in translating research into implementation.

Dr Lo led the introduction of HIV treatment in the early 1990s in Asia, reinvigorated WHO's global HIV prevention programme in Geneva and more recently led the introduction of hepatitis treatment in Asia. Dr Lo was appointed WHO Representative to Malaysia, Brunei Darussalam and Singapore in October 2017.

Dr Lo has more than 50 peer-reviewed articles showcasing the role of Asian expertise in global health published in reputable international journals such as Nature Medicine and The Lancet HIV. She was an associate editor of the Western Pacific Surveillance and Response Journal.



### **Dr Fazilah Shaik Allaudin**

Dr Fazilah is presently the Senior Deputy Director of the Planning Division. For over a decade, she has been leading digital health & innovation strategies and collaborations both locally and internationally. She often represents Malaysia at regional and global platform in digital health. A significant portion of her career has been in managing and coordinating new health facility development projects, mainly Hospital Information Systems. At present, she leads the nationwide EMR project and the national agenda of Lifetime Health Record.

During the COVID-19 pandemic, she headed the Medical Care Quality Section leading multiple teams in the area of infection prevention & control, occupational safety & health, patient safety



and mortality review. She also contributed to the Ministry's strategic communication team and passionately drove digital transformation within the nation's COVID-19 response.

Dr. Fazilah holds an M.D. from the National University of Malaysia and an MBA in Healthcare Administration from the University of Toledo, Ohio. She is professionally certified in Enterprise Architecture (TOGAF 9.0) and in Governance & Management of Enterprise IT (COBIT 5.0).



### **Datuk Dr Christopher Lee**

Dr Christopher Lee graduated from the University Malaya with his MBBS and subsequently obtained his MRCP (UK) in 1989. He trained in Infectious Diseases at the Regional Infectious Diseases Unit, City Hospital in Edinburgh, Scotland from 1993-1994 and since his return from the UK, he has served as a Infectious Diseases physician at Hospital Kuala Lumpur till 2006. He now heads the Infectious Diseases Unit and the Department of Medicine at Hospital Sungai Buloh.

Dr Lee is the National Advisor for Infectious Diseases in the Ministry of Health (MOH), Malaysia and helms the MOH Fellowship Training Program for Infectious Diseases. He also chairs the National Infection Control Working committee and the National HIV/ AIDS Treatment Registry; both of which are under the auspices of the Ministry of Health Malaysia. He sits on numerous committees in the MOH including the National Infection and Antibiotic Control Committee and is the Editor of the National Antibiotic Guidelines.

Dr Lee has been an active member in several professional societies as well as non-governmental organizations. He has served as a council member of the International Society of Infectious Diseases and is the immediate Past President of the Malaysian Society of HIV Medicine. He has also been a council member of the Global Hygiene Council since 2005. He is also one of the founding members of the TREAT ASIA HIV Network supported by AmFAR.

He served for many years in the executive committee of the Malaysian AIDS Council and was elected as its Vice President from 2002-2006. He is also the founding president of the Kuala Lumpur AIDS Support Society (KLASS). His passion and commitment for HIV/ AIDS treatment have landed him numerous awards, such as the "Dr Siti Hasmah Red Ribbon Award" in 1998.



### **Mr Stuart J. Venner Pack**

Originally from UK, Stuart has been in Malaysia for over 25 years. Has held several 'C Suite' positions, all in healthcare management. This included COO of Subang Jaya Medical Centre, CEO of Gleneagles Hospital KL and CEO of Prince Court Medical Centre.

Now managing his own company, Medical Opinion Asia, a digitally driven cyberhealth service supported by over 80 top medical specialists. Clients include major insurance companies, law firms and the community, both locally and internationally.

With a keen interest in preventive healthcare, Stuart is also looking at MedTech developments and applications in healthcare delivery, developing the networking potential for maximising digital data transfer management and focusing on preventive healthcare IoT technologies.

# Scientific Papers

## BEHAVIOURAL RESEARCH

- BR-01 PARENTS' EXPERIENCES AND PERSPECTIVES TOWARDS TUBERCULOSIS TREATMENT SUCCESS AMONG CHILDREN IN MALAYSIA: A QUALITATIVE STUDY**  
S Maria Awaluddin<sup>1,2</sup>, Nurhuda Ismail<sup>1</sup>, Siti Munira Yasin<sup>1</sup>, Yuslina Zakaria<sup>3</sup>, Norzila Mohamed Zainudin<sup>4</sup>, Faridah Kusnin<sup>5</sup>, Mas Ahmad Sherzkawee Mohd Yusoff<sup>6</sup>, Asmah Razali<sup>7</sup>  
1 Department of Public Health Medicine, Faculty of Medicine, Universiti Teknologi MARA, 2 Institute for Public Health, National Institutes of Health, Ministry of Health Malaysia, 3 Department of Pharmaceutical Life Sciences, Faculty of Pharmacy, Universiti Teknologi MARA, 4 Sunway Medical Centre, Selangor, Malaysia, 5 Klang District Health Office, Selangor Health State Department, Ministry of Health Malaysia, 6 TB Unit, Selangor Health State Department, Ministry of Health Malaysia, 7 Sector of TB/ Leprosy, Disease Control Division, Ministry of Health Malaysia
- BR-02 BELIEFS ABOUT REGULAR INHALED THERAPY AMONG CHRONIC OBSTRUCTIVE PULMONARY DISEASE PATIENTS**  
Jude Siong Yip Kiong, Felicia Loh Ee Lin, Then Shi Lee, Ting Ying Ying  
Department of Pharmacy, Sibuh Hospital, Ministry of Health Malaysia
- BR-03 HEALTHCARE WORKER'S INTENTION TO DONATE BLOOD: AN APPLICATION OF THE THEORY OF PLANNED BEHAVIOUR**  
Lim Bee Chiu<sup>1</sup>, Chew Khui Yie<sup>2</sup>, Tay Sue Ling<sup>3</sup>  
1 Clinical Research Centre Hospital Tengku Ampuan Afzan, 2 Pathology and Blood Bank Department, Hospital Sultan Haji Ahmad Shah, 3 Pathology and Blood Bank Department, Hospital Sultan Haji Ahmad Shah
- BR-04 COVID-19: PSYCHOLOGICAL EFFECTS AMONGST HEALTHCARE WORKERS**  
Kamarul Zaman Salleh, Noorlaile Jasman, Normawati Ahmad, Norrafizah Jaafar, Siti Nur Farhana Harun  
Institute for Health Behavioral Research
- BR-05 COVID-19 PANDEMIC: COPING STRATEGIES DURING MOVEMENT CONTROL ORDER IN MALAYSIA**  
Albeny Joslyn Panting, Norbaidurah Ithnain, Rosnani Kassim, Nadia Amirudin, Saiful Adli Suhaimi, Khairul Amar Musa  
Institute for Health Behavioural Research, National Institutes for Health, Ministry of Health Malaysia
- BR-06 MALAYSIAN RESPONSIBILITY TOWARDS PREVENTIVE MEASURES DURING COVID-19 PANDEMIC**  
Nadia Amirudin, Albeny Joslyn Panting, Norbaidurah Ithnain, Rosnani Kassim, Saiful Adli Suhaimi, Khairul Amar Musa  
Institute for Health Behavioural Research, National Institutes for Health, MOH Malaysia
- BR-07 COVID-19 PANDEMIC: EFFECTS OF MOVEMENT CONTROL ORDER**  
Rosnani Kassim, Albeny Joslyn Panting, Nadia Amirudin, Saiful Adli Suhaimi, Khairul Amar Musa, Norbaidurah Ithnain  
Institute for Health Behavioural Research, National Institutes for Health, MOH Malaysia
- BR-08 POTENTIAL COST-SAVING FOR LIQUID-TO-SOLID MEDICINES AMONG PAEDIATRIC PATIENTS**  
Wei Chern Ang<sup>1,2</sup>, Mohamad Syafuan Fadzi<sup>2</sup>, Chian Khie Lim<sup>2</sup>, Nur Inani Mohamad Nasir<sup>2</sup>, Muhammad Asyraf Amir<sup>2</sup>  
1 Clinical Research Centre, Hospital Tuanku Fauziah, Ministry of Health Malaysia, 2 Department of Pharmacy, Hospital Tuanku Fauziah, Ministry of Health Malaysia
- BR-09 SOCIO-DEMOGRAPHIC AND CLINICAL PROFILE OF MIXED OPIOID AND AMPHETAMINE TYPE STIMULANT DEPENDENT SUBJECTS ATTENDING METHADONE MAINTENANCE THERAPY CLINIC IN KUALA TERENGGANU, MALAYSIA: A PRELIMINARY REPORT**  
Nur Khadijah Muhamad Jamil<sup>1,2</sup>, Nurul Asma Abdullah<sup>3</sup>, Ruzilawati Abu Bakar<sup>4</sup>, Imran Ahmad<sup>5</sup>  
1 Faculty of Medicine, Universiti Sultan Zainal Abidin, Terengganu, Malaysia, 2 Department of Pharmacology, School of Medical Sciences, Universiti Sains Malaysia, 3 School of Health Sciences, Universiti Sains Malaysia, 4 Department of Pharmacology, School of Medical Sciences, Universiti Sains Malaysia, 5 Department of Family Medicine, School of Medical Sciences, Universiti Sains Malaysia
- BR-10 THE INFLUENCE OF BELIEFS ABOUT MEDICINES ON MEDICATION NONADHERENCE AMONG HEMODIALYSIS PATIENTS**  
Soik Fun Lee<sup>1</sup>, Chee Ping Chong<sup>2</sup>  
1 Department of Pharmacy, Hospital Balik Pulau, 2 Faculty Pharmacy, Universiti Sains Malaysia
- BR-11 PRACTICE ON SOCIAL DISTANCING – WHAT MALAYSIANS ARE ACTUALLY DOING?**  
Mohammad Zabri Johari, Komathi Perialathan, Teresa Yong Sui Mien, Masitah Ahmad, Nor Haryati Ahmad Sanusi, Nurashma Juatan, Khairul Amar Musa, Norrafizah Jaafar  
Institute for Health Behavioural Research, National Institutes of Health, MOH Malaysia

- BR-12 **ONLINE SURVEY ON KNOWLEDGE, PERCEIVED BENEFIT AND ATTITUDE TOWARDS SOCIAL DISTANCING AMONG MALAYSIAN PUBLIC**  
Komathi Perialathan, Masitah Ahmad, Teresa Yong Sui Mien, Mohammad Zabri Johari, Nor Haryati Ahmad Sanusi, Nurashma Juatan, Norrafizah Jaafar, Khairul Amar Musa  
Institute for Health Behavioural Research, National Institutes of Health, MOH Malaysia
- BR-13 **INTENTION TO DONATE HEMATOPOIETIC STEM CELLS AMONG BLOOD DONORS**  
Chuo Yew, Ting<sup>1</sup>; Yew Fong, Lee<sup>2</sup>; Chien Joo, Lim<sup>3</sup>; Rachel Sing Kiat, Ting<sup>4</sup>; Mohammad Masrin, MD Zahrin<sup>5</sup>; Abu Sufian, Ahmad<sup>5</sup>; Jack Siew Yu, Wong<sup>6</sup>; Masita, Arip<sup>7</sup>; Zubaidah, Zakaria<sup>7</sup>; Shahren, Ahmad Zaidi Adruce<sup>8</sup>; Yi Shen, Wong<sup>5</sup>  
1 Pharmacy Practice and Development Division, Sarawak State Health Department, 2 Institute of Global Health, Faculty of Medicine, University of Geneva, Geneva, Switzerland, 3 Clinical Research & Innovation Office, Tan Tock Seng Hospital, Singapore, 4 Jeffrey Cheah School of Medicine and Health Sciences, Monash University, Malaysia, 5 Blood Transfusion Services and Blood Bank Department, Sarawak General Hospital, Ministry of Health, Malaysia, 6 Hospital Miri, Ministry of Health, Malaysia, 7 Institute for Medical Research, Ministry of Health, Malaysia, 8 Faculty of Cognitive Sciences and Human Development, Universiti Malaysia Sarawak
- BR-14 **KNOWLEDGE, ATTITUDE AND PRACTICE OF PRESCRIBERS ON ANTIBIOTIC USE**  
Geraldine Joyce Chye Hsia Chia, Evangelin Hui Hui Hii, Munirah Binti Ahmat, Radin Mardhiah Binti Radin Abdul Rahman, Sie Hoong Kiu  
Sibu Hospital
- BR-15 **COVID-19: MALAYSIAN LIFESTYLE AND PREVENTIVE BEHAVIOURS DURING MOVEMENT CONTROL ORDER**  
Norbaidurah Ithnain, Albeny Joslyn Panting, Rosnani Kassim, Nadia Amirudin, Saiful Adli Suhaimi, Khairul Amar Musa  
Institute for Health Behavioural Research, National Institutes for Health, Ministry of Health Malaysia
- BR-16 **KNOWLEDGE AND ATTITUDE TOWARDS NEEDLE-STICK AND SHARP INJURIES AMONG NURSES**  
Siti Zulaiha Che Hat<sup>1</sup>, Karniza Khalid<sup>1</sup>, Amalina Anuar<sup>1</sup>, Wan Rafeza Rokimi<sup>2</sup>  
1 Clinical Research Centre, Hospital Tuanku Fauziah, Perlis, 2 Nursing Unit, Hospital Tuanku Fauziah, Kangar, Perlis
- BR-17 **INSIGHT INTO COVID-19 OUTBREAK: DEALING WITH INFORMATION**  
Low Lee Lan<sup>1</sup>, Kalvina Chelladorai<sup>1</sup>, Tong Seng Fah<sup>2</sup>, Ang Ju Ying<sup>3</sup>, Zalilah Abdullah<sup>1</sup>, Nurul Iman Jamalul-lail<sup>1</sup>, Tan Yui Ping<sup>1</sup>, Tay Yea Lu<sup>1</sup>, Awatef Amer Nordin<sup>1</sup>, Wong Yun Teng<sup>1</sup>, Mikha Saragi Risman<sup>1</sup>, Maimunah A Hamid<sup>4</sup>  
1 Institute of Health Systems Research, National Institutes of Health, 2 Department of Family Medicine, Faculty of Medicine, Universiti Kebangsaan Malaysia, 3 Clinical Research Centre, Hospital Raja Permaisuri Bainun, Ipoh, Perak, 4 Department of Community Medicine, Faculty of Medicine, International Medical University, Malaysia.
- BR-18 **MALAYSIAN INTENTION TO PRACTICE 3W (WASH, WEAR, WARN) DURING COVID-19**  
Nor Haryati Ahmad Sanusi, Masitah Ahmad, Komathi Perialathan, Teresa Yong Sui Mien, Mohammad Zabri Johari, Nurashma Juatan, Khairul Amar Musa, Norrafizah Jaafar  
Institute for Health Behavioural Research, National Institutes of Health, Ministry of Health Malaysia
- BR-19 **COVID-19 PANDEMIC: AN ONLINE SURVEY ON MALAYSIAN PUBLIC VIEWS TOWARDS MINISTRY OF HEALTH (MOH) ADVICES**  
Muhammad Ridzwan Zakaria, Sheikh Shafizal bin Sheikh Ilman, Zaikiah Mohd Zin, Mohamad Zaidan Zulkepli, Norrafizah Jaafar  
Institute for Health Behavioural Research, National Institutes of Health, Ministry of Health Malaysia
- BR-20 **MALAYSIAN PUBLIC PERCEPTION ON MCO INSTRUCTIONS DURING COVID-19 PANDEMIC: AN ONLINE SURVEY**  
Sheikh Shafizal Sheikh Ilman, Norrafizah Jaafar, Zaikiah Mohd Zin Mohamad Zaidan Zulkepli, Muhammad Ridzwan Zakaria  
Institute for Health Behavioural Research, National Institutes of Health, Ministry of Health Malaysia

# BIOMEDICAL

- B-01      FACTS ON BEAR BILE USE IN CORONAVIRUS DISEASE 2019 (COVID-19)**  
Xin Yi Lim, Norfarahana Japri, Bee Ping Teh, Puspawathy Krishnan, Raja Nazatul Izni Raja Shahrman Shah, Nur Salsabeela Mohd Rahim, Nurmaziah Mohammad Shafie, Terence Yew Chin Tan  
Herbal Medicine Research Centre, Institute for Medical Research, National Institutes of Health, Ministry of Health Malaysia
- B-02      INVITRO PROFILING OF CHONDROITIN/DERMATAN TRISULPHATE DISACCHARIDE AS PHARMACOLOGICAL CHAPERONE FOR MUCOPOLYSACCHARIDOSES TYPE II**  
Affandi Omar, Fatimah Diana Amin Nordin, Julaina Abdul Jalil  
Inborn Errors of Metabolism & Genetics Unit, Nutrition, Metabolism & Cardiovascular Research Centre, Institute for Medical Research.
- B-03      EXPLORATORY APPROACH OF SERUM N-GLYCAN PROFILING BY MASS SPECTROMETRY**  
Salina Abdul Rahman<sup>1</sup>, Siti Aishah Abdul Wahab<sup>2</sup>, Ngu Lock Hock<sup>3</sup>  
1 Inborn Errors of Metabolism & Genetics Unit, Nutrition, Metabolism & Cardiovascular Research Centre, Institute for Medical Research, 2 Molecular Diagnostic Protein Unit, Specialized diagnostic Centre, Institute for Medical Research, 3 Hospital Kuala Lumpur
- B-04      BIOEVALUATION OF HEPARIN OLIGOSACCHARIDES IN CORRECTING IDURONATE-2-SULPHATASE DEFICIENCY**  
Fatimah Diana Amin Nordin, Affandi Omar, Balqis Kamarudin & Julaina Abdul Jalil  
Inborn Errors of Metabolism & Genetics Unit, Nutrition, Metabolism & Cardiovascular Research Centre, Institute for Medical Research
- B-05      EFFECT OF DESULPHATED HEPARIN OLIGOSACCHARIDES IN INHIBITING IDURONATE-2-SULPHATASE ACTIVITY**  
Balqis Kamarudin, Affandi Omar, Fatimah Diana Amin Nordin, Julaina Abdul Jalil  
Inborn Errors of Metabolism & Genetics Unit, Nutrition, Metabolism & Cardiovascular Research Centre, Institute for Medical Research
- B-06      GENOMIC DIVERSITY OF SARS-COV-2 STRAINS CIRCULATING IN MALAYSIA**  
Jeyanthi Suppiah, Zarina Mohd Zawawi, Khayri Azizi Kamel, Hamadah Mohd Shariff, Rafidah Abdul Karim, Kavithambigai Ellan, Rozainanee Mohd Zain, Ravindran Thayan  
Virology Unit, Infectious Disease Research Centre, Institute for Medical Research, National Institutes of Health, Ministry of Health Malaysia
- B-07      IDENTIFICATION OF TUMOR SUPPRESSOR GENES IN NASOPHARYNGEAL CARCINOMA**  
Hamidah Akmal Hisham, Shuhaila Mat Sharani, Tan Lu Ping, Alan Khoo Soo Beng\*  
Molecular Pathology Unit, Cancer Research Centre, Institute for Medical Research, National Institute of Health, Ministry of Health Malaysia
- B-08      QUANTITATIVE PROTEOMICS PROFILING OF SILVESTROL-TREATED NASOPHARYNX CANCER CELL LINES**  
Maelinda Daker<sup>1</sup>, Siok-Fong Chin<sup>2</sup>, Paul M. Neilsen<sup>3</sup>, Siaw-San Hwang<sup>4</sup>, Lu-Ping Tan<sup>1</sup>, Munirah Ahmad<sup>1</sup>, Alan Soo-Beng Khoo<sup>1</sup>  
1 Cancer Research Centre, Institute for Medical Research, National Institutes of Health, Ministry of Health Malaysia, 2 UKM Medical Molecular Biology Institute, National University of Malaysia, Malaysia, 3 School of Health, Medical and Applied Science, Central Queensland University, Australia, 4 School of Chemical Engineering and Science, Faculty of Engineering, Computing and Science, Swinburne University of Technology Sarawak Campus, Malaysia

B-09

**EFFECT OF HEAT INACTIVATION ON SARS-COV-2 NUCLEIC ACID TESTING AND THE IMPACT OF POTENTIAL FALSE-NEGATIVE RESULTS**

Jeffrey Soon-Yit Lee<sup>1</sup>, Tiing-Tiing Chua<sup>1</sup>, Jakie Ting<sup>2</sup>, Toh-Mee Wong<sup>3</sup>, Jo-Hun Teh<sup>4</sup>, Emmanuel Joseph Tsung Fong<sup>5</sup>, Norliza Binti Jusoh<sup>6</sup>, Johnny Pangkas<sup>7</sup>, Kamilah Dahian<sup>1</sup>, David Perera<sup>8</sup>, Mong-How Ooi<sup>9</sup>, Teck-Hock Toh<sup>1</sup>

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B-10

**COAGULATION PARAMETERS FOR ECARIN CLOTTING ASSAY AND RUSSELL VIPER VENOM ASSAY ON THE CLOTPRO®**

Tiong Lee Len<sup>1</sup>, Shirley Tan Siang Ning<sup>1,2</sup>, Saiful Shakirin Rosli<sup>1</sup>, Choo Chee Wei<sup>1</sup>, Tiong Wen Ni<sup>4</sup>, Yeo Leh Siang<sup>1</sup>, Jawing Chunggat<sup>1</sup>, Alan Fong Yean Yip<sup>1,3</sup>

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# CLINICAL

C-01	<p><b>AUDIT OF TENECTEPLASE IN ST-SEGMENT ELEVATION MYOCARDIAL INFARCTION (STEMI) IN A SECONDARY HOSPITAL IN MALAYSIA</b></p> <p>Chua Kin Wei<sup>1</sup>, M. Sreevali A/P V Muthuvadivelu<sup>1</sup>, Rosilawati Binti Abdul Rani<sup>1</sup>, Ong Siew Chin<sup>2</sup>, Narwani Binti Hussin<sup>1</sup>, Cheah Wee Kooi<sup>1,3</sup></p> <p>1 Clinical Research Centre, Hospital Taiping, Perak, Malaysia, 2 School of Pharmaceutical Sciences, Universiti Sains Malaysia, Penang, Malaysia, 3 Department of Medicine, Hospital Taiping</p>
C-02	<p><b>NOVEL MECHANISM FOR STREPTOKINASE-INDUCED HYPOTENSION IN MYOCARDIAL INFARCTION: RETROSPECTIVE ANALYSES</b></p> <p>Karniza Khalid<sup>1,2</sup>, Raja Elina Afzan Raja Ahmad<sup>1</sup>, Sze Yee Lui<sup>3</sup>, Alwin Yu Hoong Tong<sup>4</sup>, Ida Zaliza Zainal Abidin<sup>3</sup></p> <p>1 Department of Physiology, University of Malaya, Kuala Lumpur, 2 Clinical Research Centre, Hospital Tuanku Fauziah, Perlis, 3 Emergency and Trauma Department, Hospital Tuanku Fauziah, Perlis, 4 Department of Internal Medicine, Hospital Tuanku Fauziah, Perlis</p>
C-03	<p><b>IMPACT OF CHEMOTHERAPY SCHEDULE MODIFICATION ON BREAST CANCER PATIENT'S SURVIVAL</b></p> <p>Gobi Hariyanayagam A/L Gunasekaran<sup>1</sup>, Mohamed Azmi Bin Ahmad Hassali<sup>2</sup>, Wan Mohd Akmal Bin Wan Sabri<sup>1</sup>, Muhammad Tahar Bin Rahman<sup>3</sup></p> <p>1 Oncology Pharmacy, Hospital Seri Manjung, 2 School of Pharmaceutical Sciences, University Sains Malaysia, 3 Surgical Department, Hospital Seri Manjung</p>
C-04	<p><b>EFFECT OF REGIONAL ANAESTHESIA ONLY VERSUS GENERAL ANAESTHESIA ON CANCER RECURRENCE RATE: A SYSTEMATIC REVIEW AND META-ANALYSIS WITH TRIAL SEQUENTIAL ANALYSIS</b></p> <p>Eshen Ang<sup>1</sup>, Ka Ting Ng<sup>2</sup>, Zong Xuan Lee<sup>1</sup>, Lian Kah Ti<sup>3</sup>, Sook Hui Chaw<sup>2</sup>, Chew Yin Wang<sup>2</sup></p> <p>1 Wrexham Maelor Hospital, United Kingdom, 2 University of Malaya, Malaysia, 3 National University of Singapore, Singapore</p>
C-05	<p><b>INPATIENT FALLS IN HOSPITAL TAIPING FROM 2016 TO 2019</b></p> <p>Rosilawati Abdul Rani<sup>1</sup>, Amierul Wadid Arsyad<sup>2</sup>, Muhamad Nasrulkhikim Aabdullah<sup>2</sup>, Maszatul Shafeena Mohd Roslee<sup>2</sup>, Nur Nabilah Isza Ismail Ja'far<sup>2</sup>, Toh Lizu, Maizatul Akmal Zubir<sup>3</sup>, Narwani Hussin<sup>1</sup></p> <p>1 Clinical Research Centre, Hospital Taiping, 2 Medical Department, Hospital Taiping, 3 Quality Unit, Hospital Taiping</p>
C-06	<p><b>A MULTICENTRE RETROSPECTIVE COHORT STUDY ON TREATMENT OUTCOME OF VARENICLINE</b></p> <p>Shea Jiun Choo<sup>1</sup>, Sabariah Noor Harun<sup>2</sup>, Balamurugan Tangiisuran<sup>2</sup>, Chee Tao Chang<sup>3</sup>, Mohd Faiz Abdul Latif<sup>4</sup>, Nor Aida Sanusi<sup>5</sup></p> <p>1 Pharmacy, Taiping Hospital, 2 School of Pharmaceutical Sciences, Universiti Sains Malaysia, 3 Clinical Research Centre, Raja Permaisuri Bainun Hospital, 4 Taiping Health Clinic, 5 Pharmaceutical Services Division, Perak State Health Department</p>
C-07	<p><b>CORONAVIRUS DISEASE-2019 (COVID-19): A RETROSPECTIVE REVIEW OF CHEST RADIOGRAPHS IN 82 PATIENTS</b></p> <p>Mohana Letchumanan<sup>1</sup>, Adi Afiq Bin Md Anour<sup>1</sup>, Shubash Shander Ganapathy<sup>2</sup>, Syaman Harry<sup>1</sup>, Nik Shah Hizan Binti Nik Lah<sup>1</sup>, Norlimah Binti Arsad<sup>3</sup>, Nur Farhana Binti Ahmad Fisol<sup>4</sup></p> <p>1 Department of Radiology, Tawau General Hospital, Ministry of Health Malaysia, 2 Institute for Public Health, National Institutes of Health, Ministry of Health Malaysia, 3 Tawau Hospital, Ministry of Health Malaysia, 4 Clinical Research Centre, Tawau Hospital, Ministry of Health Malaysia</p>
C-09	<p><b>INTERVENTION TO IMPROVE STREPTOKINASE KNOWLEDGE AMONG POST-STEMI PATIENTS: A RANDOMISED CONTROL TRIAL</b></p> <p>Wei Chern Ang<sup>1,2*</sup>, Siti Nadia Zul-Ikifli<sup>2</sup>, Arief Ibrahim<sup>2</sup>, Nur Raihana Rostam<sup>2</sup></p> <p>1 Clinical Research Centre, Hospital Tuanku Fauziah, MOH Malaysia, 2 Department of Pharmacy, Hospital Tuanku Fauziah, MOH Malaysia</p>
C-10	<p><b>ACCESS TO TRASTUZUMAB AND OVERALL SURVIVAL IN HER2 BREAST CANCER</b></p> <p>Sin Dee Cheah, Junaidi Awang Isa, Wan Hasmah Wan Jusoh, Imi Sairi Ab Hadi</p> <p>Breast and Endocrine Unit, Surgical Department, Hospital Raja Perempuan Zainab II, Kota Bharu, Kelantan, Malaysia</p>
C-11	<p><b>USAGE OF ROSUVASTATIN VERSUS EZETIMIBE-ATORVASTATIN IN MANAGEMENT OF DYSLIPIDEMIA</b></p> <p>Chelfi Zhi Fei Chua, Jing Fen Kho</p> <p>Sarawak Heart Centre</p>

C-12	<p><b>RETROSPECTIVE EVALUATION OF PIPERACILLIN-TAZOBACTAM, IMPENEM AND MEROPENEM USED IN SURGICAL WARD AT HPSF</b></p> <p>Nur Syafiqah Mohamed Jelani, Intan Zulakma Annisa Md Halid, Fadzilah Haris, Ummi Hani Zulkifli, Chin Siew See, Poey Chong Soo, Hospital Pakar Sultanah Fatimah, Muar, Johor.</p>
C-13	<p><b>RISK FACTORS AND OUTCOME OF KLEBSIELLA PNEUMONIAE BACTERAEMIA IN ADULT</b></p> <p>Tiong Chan Lee<sup>1</sup>, Asma' Mohd Arif<sup>2</sup>, Nurul Huda Razali<sup>3</sup>, Vicknesan Kulasingham<sup>4</sup>, Hashvina Suresh<sup>4</sup>, Voon-yaa Tay<sup>4</sup>, Mohd Ashraf Ghazali<sup>4</sup>, Ewe Jin Koh<sup>4</sup>, Siti Nah Omar<sup>5</sup>, Hamizan Othman<sup>2</sup>, Phang Teck Toh<sup>2</sup></p> <p>1 Jeffry Cheah School of Medicine and Health Sciences, Monash University Malaysia, 2 Administrative (Casemix System), Hospital Sultan Ismail, Johor Malaysia, 3 Clinical Research Center, Hospital Sultan Ismail, Johor Malaysia, 4 Department of Internal Medicine, Hospital Sultan Ismail, Johor Malaysia, 5 Microbiology Unit, Hospital Sultan Ismail, Johor Malaysia</p>
C-14	<p><b>THE USE OF REMDESIVIR FOR THE TREATMENT OF COVID-19: A SCOPING REVIEW</b></p> <p>Nor Soleha Mohd Dali<sup>1</sup>, Nor Asiah Muhamad<sup>2*</sup>, Rafidah Hanim Shueb<sup>3</sup>, Jacqueline Y Thompson<sup>4</sup>, Rimah Melati Ab Ghani<sup>2</sup>, Mohammed Faizal Bakhtiar<sup>1</sup>, Nai Ming Lai<sup>5</sup>, Tahir Aris<sup>1</sup></p> <p>1 Institute for Medical Research, National Institutes of Health, Ministry of Health Malaysia, 2 Sector for Evidence-based Healthcare, National Institutes of Health, Ministry of Health Malaysia, 3 Department of Microbiology and Parasitology, School of Medical Sciences, Health Campus, University Sains Malaysia, Kubang Kerian, Kelantan, 4 Institute of Inflammation and Ageing, University of Birmingham, Birmingham, United Kingdom, 5 School of Medicine, Faculty of Health and Medical Sciences, Taylor's University, Subang Jaya, Selangor, Malaysia</p>
C-15	<p><b>EFFECTIVENESS OF HYDROXYCHLOROQUINE FOR TREATING COVID-19: A META-ANALYSIS</b></p> <p>Nor Asiah Muhamad<sup>1*</sup>, Chandrika Jeevananthan<sup>2,1</sup>, Nor Soleha Mohd Dali<sup>3</sup>, Mohammed Faizal Bakhtiar<sup>3</sup>, Rimah Melati Ab Ghani<sup>1</sup>, Tahir Aris<sup>3</sup>, Nai Ming Lai<sup>4</sup></p> <p>1 Sector for Evidence Based in Healthcare, National Institutes of Health, MOH, 2 Community Health Department, Faculty of Medicine, UKM, 3 Institute for Medical Research, National Institutes of Health, MOH, 4 School of Medicine, Faculty of Health and Medical Sciences, Taylor's University</p>
C-16	<p><b>RISK FACTORS ASSOCIATED WITH SARS-COV-2 INFECTION AMONG HEALTHCARE WORKERS IN A NON-COVID HOSPITAL IN MALAYSIA</b></p> <p>Teck Long KING<sup>1,2</sup>, Diana Hui-Ping Foo<sup>1</sup>, Huey Chun Lee<sup>3</sup>, Priyadarvena Santhramogan<sup>3</sup>, Ming Gui Tan<sup>4</sup>, Sofina Azurin Bt Soffian Chen<sup>3</sup>, Siang Poon Goh<sup>5</sup>, Alan Yean Yip Fong<sup>1</sup>, Hie Ung Ngian<sup>6</sup></p> <p>1 Clinical Research Centre, Sarawak General Hospital, Kuching, Sarawak, 2 Pharmacy Department, Sarawak General Hospital, Kuching, Sarawak, 3 Occupational Health Unit, Sarawak General Hospital, Kuching, Sarawak, 4 Psychiatric Department, Sarawak General Hospital, Kuching, Sarawak, 5 Otorhinolaryngology Department, Sarawak General Hospital, Kuching, Sarawak, 6 Sarawak General Hospital, Kuching, Sarawak</p>
C-17	<p><b>PSORIASIS AND MALIGNANCY, IS THERE A LINK?</b></p> <p>Suganthi Robinson, Gin Peng Chan, Min Moon Tang Hospital Kuala Lumpur, MOH Malaysia</p>
C-18	<p><b>FACTORS ASSOCIATED WITH CARDIOVASCULAR RISK FACTORS AMONG BREAST CANCER PATIENTS</b></p> <p>Shridevi Subramaniam<sup>1</sup>, Hafizah Zaharah<sup>2</sup>, Nur Aishah Taib<sup>3</sup>, Ros Suzanna Bustamam<sup>4</sup>, Cheng-Har Yip<sup>5</sup>, Nirmala Bhoo-Pathy<sup>6</sup></p> <p>1. Centre of Clinical Epidemiology, Institute of Clinical Research, Malaysia, 2. Department of Radiotherapy &amp; Oncology, National Cancer Institute, Malaysia, 3. Department of Surgery, Faculty of Medicine, University of Malaya, Malaysia, 4. Department of Radiotherapy and Oncology, Hospital Kuala Lumpur, Malaysia, 5. Subang Jaya Medical Centre, Selangor, Malaysia, 6. Department of Social and Preventive Medicine, Faculty of Medicine, University of Malaya, Malaysia</p>
C-19	<p><b>MENTAL HEALTH STATUS OF HEALTH-RELATED-PROVIDER IN A TERTIARY NON-COVID-19 HOSPITAL</b></p> <p>Anita Codati<sup>1</sup>, Lui Sze Chiang<sup>2</sup>, Sim Kai Loon<sup>1</sup>, Maria Kamal<sup>2</sup>, Siti Nurul Aimi Mohamad<sup>1</sup>, Farhana Mohd Amiruddin<sup>1</sup>, Fauziah Ripin<sup>2</sup>, Asiah Kassim<sup>2</sup>, Ramli Mohd Ali<sup>1</sup></p> <p>1 Child &amp; Adolescent Psychiatry &amp; Mental Health Department, Hospital Tunku Azizah Kuala Lumpur, 2 Clinical Research Center, Hospital Tunku Azizah Kuala Lumpur</p>
C-20	<p><b>VITAMIN B12 DEFICIENCY PREVALENCE AMONG TYPE 2 DIABETES MELLITUS PATIENTS</b></p> <p>Soo Lin Yeoh<sup>1</sup>, Shoen Chuen Chiew<sup>2</sup></p> <p>1 Outpatient Department, Hospital Seri Manjung, Ministry of Health Malaysia, 2 Clinical Research Centre (CRC), Hospital Seri Manjung, Ministry of Health Malaysia</p>
C-21	<p><b>PSYCHOLOGICAL AND BEHAVIOURAL IMPACT OF AUTISM SPECTRUM DISORDER ON SIBLINGS</b></p> <p>Ramneeta-Kaur Suarn-Singh<sup>1,2</sup>, Shoen-Chuen Chiew<sup>3</sup>, Suria Junus<sup>4</sup>, Sheila Gopal-Krishnan<sup>2</sup>, Murniyati Abd-Wahid<sup>5</sup>, Winnie Hui Ching Ng<sup>1,6</sup></p> <p>1 Paediatric Department, Hospital Raja Permaisuri Bainun, Perak, MOH Malaysia, 2 Paediatric Department, Hospital Seri Manjung, Perak, MOH Malaysia, 3 Clinical Research Centre, Hospital Seri Manjung, Perak, MOH Malaysia, 4 Clinical Research Centre, Hospital Raja Permaisuri Bainun, Perak, MOH Malaysia, 5 Psychiatry Department, Hospital Seri Manjung, Perak, MOH Malaysia, 6 Paediatric Department, Hospital Teluk Intan, Perak, MOH Malaysia</p>



C-22	<b>CLINICAL VALIDATION OF FRESH DROOLED WHOLE SALIVA AND GENEFIX™ FOR SARS-COV-2 DIAGNOSIS</b> Alif Adlan Mohd Thabit <sup>1</sup> , Kalaarasu M. Peariasamy <sup>2,3,4</sup> , Nelson Nheu <sup>5</sup> , Kuan Pei Xuan <sup>2,3</sup> , Denisa Khoo <sup>4</sup> , Suresh Kumar Chidambaram <sup>1</sup> , Afifah Haji Hasan <sup>6</sup> , Muhamad Afiq Mu'iz bin Arifin <sup>1</sup> , Amira Naziffa Shamsuddin <sup>1</sup> , Mohd Asri Yamin <sup>6</sup> , Camille Cyncynatus <sup>5</sup> , Harvinder Kaur Lakhbeer Singh <sup>5</sup> , Ganeswrie Rajasekaram <sup>5</sup> , Martin Giddy <sup>5</sup> 1 Infectious Disease Department, Sungai Buloh Hospital, 2 Clinical Research Centre, Sungai Buloh Hospital, 3 Institute for Clinical Research, National Institutes of Health 4 Paediatric Dental Department, Sungai Buloh Hospital, 5 Gribbles Pathology (M) Sdn Bhd 6 Pathology Department, Sungai Buloh Hospital
C-23	<b>CLINICAL CHARACTERISTICS AND RISK FACTORS FOR SEVERITY OF COVID-19 INFECTIONS IN MALAYSIA</b> Wong Xin Ci <sup>1</sup> , Mohan Dass Pathmanathan <sup>1</sup> , Kalaarasu M. Peariasamy <sup>1</sup> , Suresh Kumar Chidambaram <sup>2</sup> 1 Institute for Clinical Research, National Institutes of Health, Ministry of Health Malaysia, 2 Hospital Sungai Buloh, Ministry of Health Malaysia
C-24	<b>SERIAL ON-TREATMENT PLATELET REACTIVITY OF ANTIPLATELET THERAPY IN ACUTE ISCHEMIC STROKE PATIENTS</b> Shirley Siang Ning Tan <sup>1,2</sup> , Teck Long King <sup>1,2</sup> , Lee Len Tiong <sup>2</sup> , Ahmad Tirmizi Bin Jobli <sup>4</sup> , Kiew Siong Lau <sup>4</sup> , Alan Yean Yip Fong <sup>2,5</sup> , Wan Chung Law <sup>3</sup> 1 Pharmacy Department, Sarawak General Hospital, 2 Clinical Research Center, Sarawak General Hospital, 3 Neurology Department, Sarawak General Hospital, 4 Radiology Department, Sarawak General Hospital, 5 Cardiology Department, Sarawak Heart Center
C-25	<b>BLOOD CULTURE TAKING AND CLINICAL MANAGEMENT: CELLULITIS PATIENTS</b> Mong Wayne Lim <sup>1</sup> , Aun Aun Chua <sup>2</sup> 1 Department of Medicine, Hospital Port Dickson, Negeri Sembilan, 2 Clinical Research Centre, Hospital Tuanku Ja'afar Seremban
C-26	<b>PHARMACIST'S INTERVENTION ON EARLY INTRAVENOUS TO ORAL ANTIBIOTICS SWITCH</b> Mei Chieng Kong Pharmacy department, Hospital Sibul, Sarawak
C-27	<b>TRANSFUSION ADVERSE REACTION CASES IN HOSPITAL SHAH ALAM</b> Intan Farhana Zainudin, Hanan Mahmood, Suziana Mohamad Nasir Pathology Department, Hospital Shah Alam
C-28	<b>Clinical Characteristics of COVID-19 Patients who Deteriorated after Hospitalization</b> E Li Leong <sup>1</sup> , Ju Ying Ang <sup>1</sup> , Premaa Supramaniam <sup>1</sup> , Calvin Ke Wen Wong <sup>2</sup> , Biing Horng Lee <sup>2</sup> , Hong Bee Ker <sup>2</sup> , Chee Loon Lim <sup>2</sup> , Hock Peng Chan <sup>2</sup> , Loo Sze Tan <sup>2</sup> , Izzati Nadhirah, Mohamad <sup>2</sup> , Lufti Mohamad Rashidi <sup>2</sup> 1 Clinical Research Centre Hospital Raja Permaisuri Bainun, 2 Medical Department Hospital Raja Permaisuri Bainun
C-29	<b>A PROSPECTIVE OBSERVATIONAL STUDY ON THE QUALITY OF LIFE OF HEART FAILURE PATIENTS IN A TERTIARY REFERRAL CENTRE</b> Crystal Tan Sing Yee <sup>1</sup> , Adeline Selvani a/p Akbar Selvan <sup>2</sup> , Dayang Norsahilah binti Abang Safri <sup>2</sup> , Elizabeth Tsai Yen Peng <sup>3</sup> , Veronica anak Kueh <sup>4</sup> 1 Sarawak General Hospital, 2 Pusat Jantung Sarawak, 3 Klinik Kesihatan Triboh, 4 Klinik Kesihatan Kabong
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C-31	<b>ANALYSIS OF CLINICAL PROFILES AND OUTCOMES OF PSEUDOMONAS AERUGINOSA BACTERAEMIA</b> Thai Lun Tan <sup>1</sup> , Shian Tuck Laang <sup>1</sup> , Umabalan Terpari <sup>1</sup> , Li Yuan Lee <sup>1</sup> , Shoen Chuen Chiew <sup>2</sup> , Shin Huey Khor <sup>3</sup> 1 Department of Medicine, Hospital Seri Manjung, Perak, 2 Clinical Research Centre, Hospital Seri Manjung, Perak, 3 Microbiology Unit, Hospital Seri Manjung, Perak
C-32	<b>EXPLORING PUBLIC KNOWLEDGE AND ATTITUDES TOWARDS ANTIBIOTIC USE AND RESISTANCE</b> Shirley Jing Wen Wong <sup>1</sup> , Adelyn Ka Lau Lee <sup>1</sup> , Thariyah Yuan Chin <sup>1</sup> , Shirlye Chai <sup>1,2</sup> 1 Pharmacy Department, Miri Hospital, Sarawak, 2 Clinical Research Centre Miri Hospital, Sarawak
C-33	<b>PHARMACIST ROLE AND RESPONSIBILITIES AND PUBLIC SATISFACTION – HAVE WE DONE ENOUGH?</b> Andy Sie Ping Lau <sup>1</sup> , Tong Ding Lee <sup>1</sup> , Shirlye Chai <sup>1,2</sup> 1 Pharmacy Department, Miri Hospital, Sarawak, 2 Clinical Research Centre Miri Hospital, Sarawak

C-34	<b>WHERE DO OUR PALLIATIVE CARE PATIENTS DIE?</b> Fiona Lian <sup>1</sup> , Cindy Teoh <sup>2</sup> , CT Leong <sup>3</sup> , IS Tai <sup>2</sup> , YL Woon <sup>3</sup> 1 Clinical Research Center, Hospital Pulau Pinang, 2 Palliative Care Unit, Hospital Selayang 3 Center for Clinical Epidemiology, Institute for Clinical Research
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C-36	<b>KNOWLEDGE AND PRACTICE TOWARDS INSULIN THERAPY AMONG DIABETES MELLITUS PATIENT</b> Li Vian Lim, Darwin Chaim, Yi Chee Kok, Nishanthini Selvarajoo, Siti Nurul Majidah Hospital Queen Elizabeth II, Sabah
C-37	<b>IS THE PHARMACIST "SAFETY NET" EFFECTIVE IN PREVENTING PRESCRIBING ERRORS?</b> Amanda Wei-Yin Lim <sup>1</sup> , Chia-Jie Chong <sup>2</sup> , Fatimah Zahra Azme <sup>3</sup> , Yan Yee Yip <sup>1</sup> , Ying-Jie Loh <sup>4</sup> , Nur Ilyana Naziruddin <sup>4</sup> , Melissa Grace Fletcher <sup>5</sup> , Wai-Keen Chin <sup>6</sup> , Amaresini Kanapathi <sup>7</sup> , Kavitha Devi Nandakumar <sup>8</sup> , Ju-Ying Ang <sup>9</sup> 1 Institute for Clinical Research, National Institutes of Health, Ministry of Health Malaysia, 2 Training Management Division, Ministry of Health Malaysia, 3 Department of Pharmacy, Sik Hospital, Ministry of Health Malaysia, 4 Department of Pharmacy, Slim River Hospital, Ministry of Health Malaysia, 5 Batang Padang District Health Office, Ministry of Health Malaysia, 6 Pharmacy Enforcement Branch, Perak State Pharmaceutical Services Division 7 Department of Pharmacy, Kuala Lumpur Hospital, Ministry of Health Malaysia, 8 Department of Pharmacy, Raja Permaisuri Bainun Hospital, Ministry of Health Malaysia, 9 Clinical Research Centre, Raja Permaisuri Bainun Hospital, Ministry of Health Malaysia
C-38	<b>PRESCRIBING PRACTICE OF THIRD-GENERATION CEPHALOSPORINS IN MEDICAL WARDS AT HOSPITAL QUEEN ELIZABETH II, KOTA KINABALU</b> Nur Fairuz Sabrina Hashim, Qishtina Mizan, Hong Tshun Kuan, Dina Cyla Danny, Lai Shuhua, Goh Qing Liang Pharmacy Department, Hospital Queen Elizabeth II, Sabah
C-39	<b>NON-STEROIDAL ANTI-INFLAMMATORY DRUGS (NSAIDS) HYPERSENSITIVITY PHENOTYPES: DON'T MISLABEL THE NSAIDS-AUGMENTED FOOD ALLERGY</b> Mohammed Faizal Bakhtiar <sup>1</sup> , Nurul-Aain Ahmad Fauzi <sup>2</sup> , Brenda Leecyous <sup>1</sup> , Lay Kim Tan <sup>2</sup> , Zailatul Hani Mohamad Yadzir <sup>1</sup> , Cindy Thomas Joseph <sup>3</sup> , Fan Yin Kwok <sup>3</sup> , Min Moon Tang <sup>4</sup> , Chun Lai Too <sup>2</sup> 1 Allergy Unit, Allergy & Immunology Research Center, Institute for Medical Research, National Institutes of Health, Ministry of Health Malaysia, 2 Immunogenetic Unit, Allergy & Immunology Research Center, Institute for Medical Research, National Institutes of Health, Ministry of Health Malaysia, 3 Anaesthetic Allergy Clinic, Department of Anaesthesia and Intensive Care, Kuala Lumpur Hospital, 4 Department of Dermatology, Kuala Lumpur Hospital
C-40	<b>ANTIMICROBIAL SUSCEPTIBILITY PATTERNS OF UROPATHOGEN ISOLATED IN COMMUNITY ACQUIRED URINARY TRACT INFECTION IN GOVERNMENT HEALTH CLINICS IN KLANG</b> Mei Lee Yew, Roshalina Rosli, Bee Kiau Ho, Salbiah Mohamed Isa Klinik Kesihatan Bandar Botanik, Klang
C-41	<b>BARRIERS OF INSULIN INITIATION AMONG TYPE II DIABETES MELLITUS PATIENTS IN HOSPITAL PAKAR SULTANAH FATIMAH, MUAR</b> Khan Wen Fang, Lau Li Rui, Nur Hasanah bt Muhamad Noh, Er Pei San, Seah Cai Qi, Wee Chai Ling Hospital Pakar Sultanah Fatimah, Muar
C-42	<b>SELF-PERCEIVED COMPETENCE AND CONFIDENCE IN CONDUCTING PHARMACY PRACTICE RESEARCH</b> Siaw Tze Yeo, Ching Jou Tan, Sook Mun Wan Pharmacy Department, Miri Hospital, Sarawak
C-43	<b>AUTOLOGOUS STEM CELL TRANSPLANTATION (ASCT) OUTCOME FOR MULTIPLE MYELOMA IN A TERTIARY REFERRAL CENTRE IN MALAYSIA</b> Christopher Chin Keong Liam <sup>1</sup> , Yang Liang Boo <sup>1</sup> , Yi Lin Lee <sup>2</sup> , Kian Boon Law <sup>2</sup> , KW Ho <sup>1</sup> , Syed Abdul Kadir Sharifah Shahnaz <sup>1</sup> , Jerome Tsuen Chen Tan <sup>1</sup> , Ngee Siang Lau <sup>1</sup> , Sen Mui Tan <sup>1</sup> , Tee Chuan Ong <sup>1</sup> , Jameela Sathar <sup>1</sup> 1 Department of Haematology, Ampang Hospital, Selangor, 2 Centre for Clinical Trial, Institute for Clinical Research, MOH Malaysia
C-44	<b>PROGNOSTIC FACTORS FOR MORTALITY AMONG EARLY STAGE BREAST CANCER PATIENTS</b> Shridevi Subramaniam <sup>1</sup> , Nadiyah Saat <sup>2</sup> , Rafli Ruzairi Awang <sup>3</sup> , Ros Suzanna Bustamam <sup>4</sup> , Nor Aina Emran <sup>3</sup> , Azura Daniel <sup>4</sup> , Nor Azham Hakim Darail <sup>3</sup> 1 Centre of Clinical Epidemiology, Institute of Clinical Research, National Institutes of Health, 2 Unit of Biostatistics & Research Methodology, School of Medical Sciences, Health Campus, University Sains Malaysia, 3 Breast & Endocrine Surgery Unit, Dept Of Surgery, Hospital Kuala Lumpur, 4 Department of Radiotherapy and Oncology, Hospital Kuala Lumpur

- C-45      **NON-SARS-COV-2 COMMUNITY-ACQUIRED RESPIRATORY INFECTIONS DURING COVID-19 OUTBREAK**  
 Tonnii Sia<sup>1</sup>, Andrew Chang WK<sup>1</sup>, Han-Hua Lim<sup>1</sup>, Xun Ting Tiong<sup>2</sup>, Hock-Hin Chua<sup>1</sup>  
 1 Infectious Diseases Unit, Medical Department, Sarawak General Hospital, 2 Clinical Research Centre, Sarawak General Hospital
- C-46      **EFFECTS OF HIGH DOSE VITAMIN C SUPPLEMENTATION ON SEVERE COVID-19 PATIENTS IN THE ICU: A RETROSPECTIVE ANALYSIS**  
 Calvin Ke Wen, Wong<sup>1</sup>, D G.R Letchuman Ramanathan<sup>1</sup>, Kit Weng Foong<sup>2</sup>, Hong Bee Ker<sup>1</sup>, Chee Loon Lim<sup>1</sup>, Biing Horng Lee<sup>1</sup>, E Li, Leong<sup>3</sup>, Xin Jie Lim<sup>3</sup>, Vijaendreh A/L Subramaniam<sup>4</sup>, Chee Loon Leong<sup>5</sup>, Nadiah Binti Ismail<sup>6</sup>  
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- Invited      **COVID-19 ANTIBODY RESPONSE AMONG RT-PCR CONFIRMED COVID-19 PATIENTS IN HOSPITAL SUNGAI BULOH (CO-AB STUDY)**  
 Lim Kah Chuan<sup>1</sup>, Adilahtul Bushro binti Zaini<sup>2</sup>, Sharifah Khairul Atikah<sup>3</sup>, Suresh Kumar<sup>1</sup>, Nur Jannah bt Arifin<sup>3</sup>, Ros Aliaa binti Osman<sup>3</sup>, Sakinah binti Zulkarnain<sup>2</sup>, Syarifah Nurul Ain bt Syed Badaruddin<sup>4</sup>, Yusnita binti Jamalut<sup>2</sup>  
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# DIGITAL HEALTH

- DH-01     **ENHANCED DATA AUGMENTATION FOR MONOCHROMATIC AND POLYCHROMATIC MEDICAL IMAGES**  
Wong Xin Ci<sup>1,2</sup>, Hoo Wai Lam<sup>2</sup>  
1 Unit Digital Health Research and Innovation, Institute for Clinical Research, 2 Faculty of Computer Science & Information Technology, University Malaya, Malaysia
- DH-02     **STETHEE VERSUS LITTMANN: A RANDOMISED, CROSSOVER, NON-INFERIORITY TRIAL (STELIT)**  
Amanda Wei-Yin Lim<sup>1</sup>, Ju-Ying Ang<sup>2</sup>, Cheng-Hoon Chew<sup>1</sup>, Nayyar Hussain<sup>3</sup>, Houman Ghaemmaghami<sup>3</sup>, Amar-Singh HSS  
1 Institute for Clinical Research, National Institutes of Health, Ministry of Health Malaysia, 2 Clinical Research Centre, Raja Permaisuri Bainun Hospital, Ministry of Health Malaysia, 3 M3DICINE, Brisbane, Queensland, Australia
- DH-03     **EVALUATION OF ONLINE HEALTH INFORMATION OF TYPE 2 DIABETES MELLITUS**  
Boon Kie Kho<sup>1</sup>, Syarafina Izahar<sup>1</sup>, Kamarudin Ahmad<sup>1,2</sup>  
1 Pharmacy Department, Miri Hospital, Sarawak, 2 Clinical Research Centre Miri
- DH-04     **HOSPITAL INFORMATION SYSTEM DATA COMPLETENESS IN MINISTRY OF HEALTH MALAYSIA HOSPITALS**  
Zulkarnain Abd Karim<sup>1</sup>, Roslina Othman<sup>2</sup>, Nur Hidayati Abdul Halim<sup>1</sup>, Nuraidah Mohd Marzuki<sup>3</sup>, Nurul Iman Jamaul-lail<sup>1</sup>, Nurul Salwana Abu Bakar<sup>1</sup>, Mohd Idris Omar<sup>4</sup>, Rafidah Isa<sup>2</sup>, Hazwani Mohd Mohadis<sup>2</sup>, Fathullah Iqbal Ab Rahim<sup>1</sup>, Norainun Ismail<sup>3</sup>, Nazmi Ainaa Azmi<sup>3</sup>, Mohamad Fauzan Noordin<sup>2</sup>  
1 Institute for Health Systems Research, National Institutes of Health, 2 Kulliyyah of ICT, International Islamic University Malaysia, 3 eHealth Planning Section, Planning Division  
4 Research Policy and Planning Division, National Institutes of Health

# HEALTH SYSTEM RESEARCH

H-01	<b>QUALITY IMPROVEMENT IN THE HEALTHCARE OF MALAYSIA: A SITUATIONAL ANALYSIS</b> Divya Nair N, Samsiah A, Siti Fazira Edzua J, Izzatur Rahmi MU, Nur Wahida Z, Nur Khairah B, Noorhasidah AR, Normaizira H, Mohd Syafiq A, Sarimah I. Institute for Health Systems Research, Setia Alam, Selangor, Malaysia
H-02	<b>CHARACTERISTIC AND CIRCUMSTANCES OF PATIENT FALL IN A HOSPITAL SETTING: A RETROSPECTIVE ANALYSIS</b> Azlina Dahlan, Florence Sima, Noraisyah Tahir Hospital Pakar Sultanah Fatimah, Muar
H-03	<b>RETROSPECTIVE STUDY: PREVALENCE OF EPISIOTOMY BREAKDOWN IN HOSPITAL PAKAR SULTANAH FATIMAH, MUAR</b> Ruzila Ramlan, Azlina Dahlan, Nazrah Abdul Majid, Siti Salmiah Suhaimi, Juliana Abdul Jalil Hospital Pakar Sultanah Fatimah, Muar
H-04	<b>OCCUPATIONAL STRESS AND MANAGEMENT STRATEGIES, AMONG REGISTERED NURSES IN HOSPITAL PAKAR SULTANAH FATIMAH</b> Zaidah Ahmad Subari, Azlina Dahlan, Norazila Abdullah, Haslinah Selamat, Norihan Kassim Hospital Pakar Sultanah Fatimah Muar
H-05	<b>ANALYSIS OF PUBLIC INQUIRIES RECEIVED BY CPRC DURING COVID-19 PANDEMIC</b> Logeswary Krisnan <sup>1</sup> , Khairulnissa Abdul Kadir <sup>1</sup> , Zainudin A. Hamid <sup>2</sup> 1 Institute for Health Behavioural Research, National Institute of Health, Ministry of Health Malaysia 2 Disease Control Division, Ministry of Health Malaysia
H-06	<b>BATTLING COVID-19: INSTITUT KANSER NEGARA COVID-19 TASK FORCE STRATEGIES</b> Sarah Hui Li Pang, Siti Fatimah Zahra Mohd Anuar, Kosholah Balakrishnaa, Sarah Aqilah Ghazali, Nur Alham Othman, Melvyn Yin Chung Chin, Yoke Fui Wong Clinical Research Centre, Institut Kanser Negara
H-07	<b>SUPPLEMENTARY FINANCIAL COVERAGE: INEQUALITIES ACROSS INCOME GROUPS</b> Iqbal Ab Rahim, Suhana Jawahir, Ee Hong Tan, Sarah Nurain Mohd Noh, Yeung R'ong Tan Centre for Health Equity Research, Institute for Health Systems Research
H-08	<b>HEALTH-SEEKING BEHAVIOUR AMONG ADULTS IN MALAYSIA DURING TIMES OF ILLNESS</b> Sarah Nurain Mohd Noh, Suhana Jawahir, Ee Hong Tan, Iqbal Ab Rahim, Yeung R'ong Tan Institute for Health Systems Research, National Institutes of Health Malaysia
H-09	<b>HOME MEDICATION REVIEW BY HOSPITAL TUANKU FAUZIAH: CARERS' PERSPECTIVES</b> Wei Chern Ang <sup>1,2</sup> , Jurisma Che Lah <sup>2</sup> , Nursyafiqah Zulkepli <sup>2</sup> , Nursyamimi Sukri <sup>2</sup> , Amalina Rosedi <sup>2</sup> 1 Clinical Research Centre, Hospital Tuanku Fauziah, Ministry of Health Malaysia, 2 Department of Pharmacy, Hospital Tuanku Fauziah, Ministry of Health Malaysia
H-10	<b>PUBLIC TRANSPORT IN THE ERA OF COVID-19: COMPARISON OF INFECTION PREVENTION AND CONTROL MEASURES TAKEN BY MALAYSIA, SINGAPORE AND CHINA</b> Ang Zen Yang <sup>1</sup> , Cheah Kit Yee <sup>2</sup> , Anis Syakira Jailani <sup>1</sup> , Kong Yuke Lin <sup>1</sup> , Maizurah Sebr <sup>3</sup> , Sondi Sararaks <sup>1</sup> 1 Health Outcomes Research Division, Institute for Health Systems Research, National Institutes of Health Malaysia, 2 Centre for Clinical Trial, Institute for Clinical Research, National Institutes of Health Malaysia, 3 Kuala Lumpur Hospital
H-11	<b>MALAYSIA'S SURVEILLANCE RESPONSE TO COVID-19: COULD WE PERFORM BETTER?</b> Rui Jie Ng <sup>1</sup> , Nur Zahirah Balqis-Ali <sup>2</sup> , Faeiz Syezri Adzmin Jaaffar <sup>1</sup> , Munirah Ismail <sup>1</sup> , Lukman Afandi <sup>2</sup> , Weng Hong Fun <sup>2</sup> , Lee Lan Low <sup>2</sup> 1 Institute for Health Management, National Institutes of Health Malaysia, 2 Institute for Health Systems Research, National Institutes of Health Malaysia
H-12	<b>COVID 19 INFECTION CONTROL STRATEGIES - EVIDENCE FROM WHO DATABASE</b> Kong Yuke Lin <sup>1</sup> , Nur Balqis Zahirah Ali <sup>1</sup> , Shakirah Md Sharif <sup>1</sup> , Fun Weng Hong <sup>1</sup> , Yap Wuan Shuen <sup>1</sup> , Sondi Sararaks <sup>1</sup> Institute of Health System Research, National Institutes of Health
H-13	<b>SURGE CAPACITY DYNAMICS AT A COVID-19 DESIGNATED HOSPITAL IN MALAYSIA</b> Kuan Pei Xuan <sup>1,2</sup> , Kuldip Kaur Prem Singh <sup>3</sup> , Law Kian Boon <sup>1</sup> , Mohd Aizuddin Abdul Rahman <sup>1,2</sup> , Mohan Dass Pathmanathan <sup>1,2</sup> , Wong Xin Ci <sup>1</sup> , Kalaarasu M. Peariasamy <sup>1,2</sup> , Goh Pik Pin <sup>1</sup> 1 Centre for Digital Health Research and Innovation, Institute for Clinical Research, Malaysia, 2 Clinical Research Centre, Sungai Buloh Hospital, Malaysia, 3 Director Office, Sungai Buloh Hospital, Malaysia

# PUBLIC HEALTH

P-01	<p><b>OLDER ADULTS IN MALAYSIA: ARE THEY BEING PHYSICALLY INACTIVE?</b></p> <p>Chan Ying Ying<sup>1</sup>, Lim Kuang Kuay<sup>1</sup>, Mohd Azahadi Omar<sup>2</sup>, Muhammad Fadhli Mohd Yusoff<sup>1</sup>, Rajini Sooryanarayana<sup>1</sup>, Mohamad Aznuddin Abd Razak<sup>1</sup>, Azli Baharudin@Shaharuddin<sup>1</sup>, Nor'Ain Ab Wahab<sup>1</sup>, Nur Azna Mahmud<sup>1</sup>, Noor Ani Ahmad<sup>1</sup>, Noran Naqiah Mohd Hairi<sup>3</sup></p> <p>1 Institute for Public Health, National Institutes of Health, Ministry of Health Malaysia, 2 Research Policy and Planning Division, Sector for Biostatistics &amp; Data Repository, National Institutes of Health, Ministry of Health Malaysia, 3 Centre for Epidemiology and Evidence Based Practice, Department of Social and Preventive Medicine, Faculty of Medicine, University of Malaya, Malaysia</p>
P-02	<p><b>SOCIO-DEMOGRAPHIC DISTRIBUTION OF VEGETARIANS IN MALAYSIA</b></p> <p>Siew Man Cheong<sup>1</sup>, Ruhaya Salleh Ruhaya<sup>1</sup>, Evi Diana<sup>2</sup>, Lalitha Palaniveloo<sup>1</sup>, Mohamad Hasnan Ahmad<sup>1</sup>, Ahmad Ali Zainuddin<sup>1</sup>, Jayvikramjit Singh Manjit Singh<sup>1</sup>, Nor Syamlina Che Abdul Rahim<sup>1</sup>, Syafinaz Mohd Sallehuddin<sup>1</sup>, Nur Shahida Abdul Aziz<sup>1</sup>, Suhaila Abdul Ghaffar<sup>1</sup>, Munawara Pardi<sup>1</sup>, Azli Baharudin<sup>1</sup>, Siti Balkhis binti Shafie<sup>1</sup></p> <p>1 Institute for Public Health, National Institutes of Health, Ministry of Health Malaysia, 2 Sector for Biostatistics and Data Repository, National Institutes of Health, Ministry of Health Malaysia</p>
P-03	<p><b>ASSOCIATED FACTORS TO STUNTED CHILDREN IN PUTRAJAYA</b></p> <p>Mohamad Hasnan Ahmad<sup>1</sup>, Cheong Siew Man<sup>1</sup>, Ruhaya Salleh<sup>1</sup>, Lalitha Palaniveloo<sup>1</sup>, Syafinaz Sallehuddin<sup>1</sup>, Mohd Zamir Majid<sup>2</sup>, Rozita Ab Rahman<sup>3</sup>, Hazizi Abu Saad<sup>4</sup>, Poh Bee Koon<sup>5</sup>, Noor Ani Ahmad<sup>1</sup>, Mohd Azahadi Omar<sup>1,6</sup>, Tahir Aris<sup>1,7</sup></p> <p>1 Institute for Public Health, National Institutes of Health, Ministry of Health Malaysia, 2 Nutrition Division, Ministry of Health Malaysia, 3 Family Health Development Division, Ministry of Health Malaysia, 4 Faculty of Medicine, Universiti Putra Malaysia, 5 Faculty of Health Science, Universiti Kebangsaan Malaysia, 6 Biostatistic and Data Repository Sector, National Institutes of Health, Ministry of Health Malaysia, 7 Institute for Medical Research, National Institutes of Health, Ministry of Health Malaysia</p>
P-04	<p><b>PREVALENCE OF DIABETES AND ITS ASSOCIATED RISK FACTORS AMONG THE MALAYSIAN ADULTS POPULATION: NATIONAL HEALTH AND MORBIDITY SURVEY 2019</b></p> <p>Hasimah Ismail, Wan Shakira Rodzlan Hasani, Thamil Arasu Saminthan, Halizah Mat Rifin, Nur Liana Ab Majid, Ahzairin Ahmad, Tania Gayle Robert Lourdes, Jane Ling Miaw Yn, Muhammad Fadhli Mohd Yusoff, Tahir Aris, Noor Ani Ahmad</p> <p>Institute for Public Health, National Institutes of Health, MOH Malaysia</p>
P-05	<p><b>WAIST TO HEIGHT RATIO (WHTR): AN ANTHROPOMETRIC INDICATOR FOR EARLY DETECTION OF HEALTH RISK FOR MALAYSIA'S NATIONAL HEALTH AND MORBIDITY SURVEY (NHMS)</b></p> <p>Jayvikramjit Singh<sup>1</sup>, Zamtira Seman<sup>2</sup>, Norsyamlina Che Abdul Rahim<sup>1</sup>, Azli Baharudin<sup>1</sup>, Norazizah Ibrahim Wong<sup>2</sup>, Syafinaz Mohd Sallehuddin<sup>1</sup>, Nur Shahida Abd Aziz<sup>1</sup></p> <p>1 Institute for Public Health, National Institutes of Health, Ministry of Health Malaysia. 2 Sector for Biostatistics and Data Repository, National Institutes of Health, Ministry of Health Malaysia.</p>
P-06	<p><b>THE CHALLENGES DURING INDUCED LACTATION PROCESS AMONG MALAYSIAN WOMEN</b></p> <p>Norsyamlina Che Abdul Rahim<sup>1,2</sup>, Zaharah Sulaiman<sup>2</sup>, Tengku Alina Tengku Ismail<sup>3</sup>, Noor Ani Ahmad<sup>1</sup></p> <p>1 Institute for Public Health, National Institutes of Health, MOH Malaysia, 2 Women's Health Development Unit, Universiti Sains Malaysia, Health Campus, Kubang Kerian, Kelantan, Malaysia, 3 School of Medical Sciences, Universiti Sains Malaysia, Health Campus, Kubang Kerian, Kelantan, Malaysia</p>
P-07	<p><b>KNOWLEDGE, ATTITUDE AND PRACTICE OF USING FACEMASK AMONG HOSPITAL VISITORS DURING COVID-19 PANDEMIC</b></p> <p>Shargunan Selvanthan Gunasekaran<sup>1</sup>, Fouzia Hanim Bt Abdul Halim<sup>2</sup>, Foo Yen Li<sup>2</sup>, Gobi Hariyanayagam Gunasekaran<sup>2</sup>, Aida Farhana Bt Yusoff<sup>2</sup>, Wan Mohd Akmal Bin Wan Sabri<sup>2</sup></p> <p>1 Klinik Pergigian Seri Manjung, Perak, 2 Pharmacy Department, Hospital Seri Manjung, Perak</p>
P-08	<p><b>FACTORS ASSOCIATED WITH INCORRECT FACEMASK USE AMONG INDIVIDUALS VISITING HIGH RISK LOCATIONS DURING COVID-19 PANDEMIC: A CROSS SECTIONAL STUDY IN MALAYSIA</b></p> <p>Gobi Hariyanayagam Gunasekaran<sup>1</sup>, Nur Syafina Insyirah Zaimi<sup>1</sup>, Sera Selvanthan Sundram Gunasekaran<sup>2</sup>, Nor Amirah Abdul Halim<sup>1</sup>, Fouzia Hanim Abdul Halim<sup>1</sup></p> <p>1 Pharmacy, Hospital Seri Manjung, 2 Hospital Seri Manjung</p>
P-09	<p><b>PRACTICE OF DIETARY SALT CONTROL AMONG ADULT IN MALAYSIA: FINDING FROM MALAYSIAN COMMUNITY SALT SURVEY (MYCOSS) 2017-2018</b></p> <p>Munawara Pardi<sup>1</sup>, Ruhaya Salleh<sup>1</sup>, Nur Shahida bt Abd Aziz<sup>1</sup>, Syafinaz Mohd Sallehuddin<sup>1</sup>, Azli Baharuddin<sup>1</sup>, Norazizah Ibrahim Wong<sup>2</sup></p> <p>1 Institute for Public Health, National Institute of Health, MOH Malaysia, 2 Biostatic &amp; Data Repository, National Institute of Health, MOH Malaysia</p>

- P-10 **BURDEN OF TUBERCULOSIS IN MALAYSIA: AN OVERVIEW FOR 2015**  
Nur Hamizah Nasaruddin<sup>1</sup>, Shubash Shander Ganapathy<sup>1</sup>, Mohd Azahadi Omar<sup>2</sup>, Mohamad Fuad Mohamad Anuar<sup>2</sup>, LeeAnn Tan<sup>1</sup>, Nazirah Alias<sup>1</sup>  
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- P-11 **A SCOPING REVIEW OF THE EFFECTIVENESS OF CONTAINMENT AND MITIGATION MEASURES ON COVID-19**  
Lim Kuang Kuay, Faizul Akmal Abdul Rahim, Fazila Haryati Ahmad, Ahzairin Ahmad, Halizah Mat Rifin, Mohd Shaiful Azlan Kassim, Muhd Hafizuddin Taufik Ramli, Nur Hamizah Nasaruddin, Jayvikramjit Singh Manjit Singh, Norsyamliana Che Abdul Rahim.  
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- P-12 **A REVIEW ON NUTRITION AND DIETARY RECOMMENDATION DURING COVID-19 PANDEMIC**  
Norsyamliana Che Abdul Rahim, Jayvikramjit Singh a/l Manjit Singh, Munawara Pardi, Syafinaz Mohd Sallehuddin, Ahmad Ali Zainuddin, Ruhaya Salleh  
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- P-13 **PREVALENCE AND CORRELATES OF SECOND-HAND SMOKE EXPOSURE AMONG MALAYSIAN ADULTS**  
Jane Ling Miaw Yn, Wan Shakira Rodzlan Hasani, Halizah Mat Rifin, Nur Liana Ab. Majid, Tania Gayle Robert Lourdes, Thamil Arasu Saminathan, Ahzairin Ahmad, Hasimah Ismail, Hamizatul Akmal Abd Hamid, Muhammad Fadhli Mohd Yusoff  
Institute for Public Health, National Institutes of Health, Ministry of Health Malaysia
- P-14 **IMPACT EVALUATION OF THE UNIVERSAL SALT IODIZATION INTERVENTION IN SARAWAK, MALAYSIA FROM 2008-2018**  
Lim Kuang Kuay<sup>1</sup>, Noor Ani Ahmad<sup>1</sup>, Tan Beng Chin<sup>2</sup>, Abdul Aziz Harith<sup>1</sup>, Nur, Azna Mahmud<sup>1</sup>, Chan Ying Ying<sup>1</sup>, Mohd Shaiful Azlan Kassim<sup>1</sup>, Tahir Aris<sup>1</sup>  
1 Institute for Public Health, National Institutes of Health, Ministry of Health Malaysia, 2 Sarawak State Health Department, Ministry of Health Malaysia
- P-15 **RISK FACTORS FOR UNDERWEIGHT CHILDREN UNDER FIVE YEARS OLD: EVIDENCE FROM A CASE-CONTROL STUDY IN PUTRAJAYA, MALAYSIA**  
Ruhaya Salleh<sup>1</sup>, Mohamad Hasnan Ahmad<sup>1</sup>, Cheong Siew Man<sup>1</sup>, Lalitha Palaniveloo<sup>1</sup>, Azli Baharudin<sup>1</sup>, Nur Shahida Abdul Aziz<sup>1</sup>, Syafinaz Mohd Sallehuddin<sup>1</sup>, Ahmad Ali Zainuddin<sup>1</sup>, Munawara Pardi<sup>1</sup>, Norsyamliana Che Abdul Rahim<sup>1</sup>, Suhaila Abdul Ghaffar<sup>1</sup>, Mohd Azahadi Omar<sup>2</sup>, Norazizah Ibrahim Wong<sup>2</sup>  
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- P-16 **COMORBIDITIES AND CLINICAL FEATURES RELATED TO INVASIVE VENTILATORY SUPPORT AMONG COVID-19 CASES IN SELANGOR, MALAYSIA**  
Wan Shakira Rodzlan Hasani<sup>1</sup>, Shubash Shander Ganapathy<sup>1</sup>, Chong Zhuo Lin<sup>1</sup>, Halizah Mat Rifin<sup>1</sup>, Mohammad Nazaruddin Bahari<sup>2</sup>, Muhammad Haikal Ghazali<sup>2</sup>, Noor Aliza Lodz<sup>2</sup>, Muhammad Hafizuddin Taufik Ramli<sup>1</sup>, Nur Liana Ab Majid<sup>1</sup>, Jane Ling Miaw Yn<sup>1</sup>, Muhammad Fadhli Mohd Yusoff<sup>1</sup>, Noor Ani Ahmad<sup>1</sup>, Anita Suleiman<sup>3</sup>, Ahmad Faudzi Yusoff<sup>4</sup>, Venugopalan Balan<sup>2</sup>, Sha'ari Ngadiman<sup>2</sup>  
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- P-17 **THE PREVALENCE AND FACTORS ASSOCIATED WITH E-CIGATETTE USERS IN MALAYSIA**  
Hasmah Binti Mohamed Haris, Wan Shakira Rodzlan Hasani, Jane Ling Miaw Yn, Mohd Hatta Abdul Mutalip, Eida Nurhadzira Muhammad, Muhammad Faiz Mohd Hisham, Ahzairin Ahmad, Muhammad Fadhli Mohd Yusoff  
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- P-18 **PREDICTION OF DEPRESSION AMONG SCHOOL-GOING ADOLESCENT USING MACHINE LEARNING TECHNIQUES**  
Hamizatul Akmal Abd Hamid<sup>1</sup>, Aida Wati Zainan Abidin<sup>2</sup>, Muhammad Fadhli Mohd Yusoff<sup>1</sup>  
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- P-19 **PREVALENCE AND FACTORS ASSOCIATED WITH HYPERTENSION IN MALAYSIA: NHMS 2019**  
Nur Liana Ab Majid, Wan Shakira Rodzlan Hasani, Hamizatul Akmal Abdul Hamid, Halizah Mat Rifin, Jane Ling Miaw Yn, Tania Gayle Robert Lourdes, Thamil Arasu Saminathan, Mohd Ruhaizie Riyadzi  
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- P-20 **PHYSICAL INACTIVITY AMONG ADULTS IN MALAYSIA: FINDINGS FROM NATIONAL HEALTH AND MORBIDITY SURVEY (NHMS) 2019**  
Nazirah Alias<sup>1</sup>, Lim Kuang Kuay<sup>1</sup>, Chan Ying Ying<sup>1</sup>, Ahzairin Ahmad<sup>1</sup>, Ridwan Sanaudi<sup>2</sup>  
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P-21	<b>FALLS AMONG OLDER PERSONS IN MALAYSIA: A PUBLIC HEALTH PERSPECTIVE</b> Norhafizah Sahril <sup>1</sup> , Nik Adilah Shahein <sup>1</sup> , Norzawati Yoep <sup>1</sup> , Nor Azna Mahmud <sup>1</sup> , Rajini Sooryanarayana <sup>1</sup> , Tan Maw Pin <sup>2</sup> , Nor Asiah Muhamad <sup>1</sup> , Hasimah Ismail <sup>1</sup> 1 Institute for Public Health, National Institutes of Health, Ministry of Health Malaysia, 2 Department of Medicine, Faculty of Medicine, University of Malaya, Malaysia
P-22	<b>HOME DEATH TREND DURING MCO IN TAIPING</b> Cheah Wee Kooi, Rosilawati Abdul Rani, Prema Muninathan, Chua Kin Wei Clinical Research Centre, Hospital Taiping
P-23	<b>METHODOLOGICAL APPROACH IN DETERMINING MENTAL HEALTH STATUS AMONG STABLE HOSPITALIZED COVID-19 PATIENTS</b> Mohd Shaiful Azlan Bin Kassim <sup>1*</sup> , Noor Ani Ahmad <sup>1</sup> , Umi Adzlin Silim <sup>2</sup> , Muhammad Najib Bin Abdullah <sup>3</sup> , Norazam Bin Harun <sup>4</sup> , Col. Dr. Siti Nordiana Bt Dollah <sup>5</sup> , Nurashikin Ibrahim <sup>6</sup> , Muhammad Solihin Bin Rezali <sup>1</sup> , Chan Ying Ying <sup>1</sup> , Norhafizah Bt Sahril <sup>1</sup> , Muhd Hafizuddin Taufik Bin Ramli <sup>1</sup> , Nik Adilah Bt Shahein <sup>1</sup> , Nor` Ain Bt Ab Wahab <sup>1</sup> , Fatin Athira Bt Tahir <sup>1</sup> 1 Institute for Public Health, National Institutes of Health, Ministry of Health Malaysia, 2 Department of Psychiatry, Hospital Kuala Lumpur, Ministry of Health Malaysia, 3 Department of Psychiatry, Hospital Sungai Buloh, Ministry of Health Malaysia, 4 Hospital Permai Johore Bahru, Ministry of Health Malaysia 5 Department of Psychiatry, Hospital Tuanku Mizan, Ministry of Defence Malaysia, 6 Disease Control Division, Ministry of Health Malaysia
P-24	<b>FACTORS ASSOCIATED WITH ASYMPTOMATIC COVID-19 PATIENTS IN PETALING DISTRICT, SELANGOR, MALAYSIA</b> Chan Ying Ying <sup>1</sup> , Lim Kuang Kuay <sup>1</sup> , Ainul Nadziha Mohd Hanafiah <sup>2</sup> , Lee Soo Cheng <sup>3</sup> , Mohd Shaiful Azlan Kassim <sup>1</sup> , Chong Zhuo Lin <sup>1</sup> , Ridwan Sanaudi <sup>4</sup> , Roslinda Abu Sopian <sup>4</sup> , Nurul Syarbani Eliana Musa <sup>4</sup> , Mohamed Paid Yusof <sup>3</sup> 1 Institute for Public Health, National Institutes of Health, Ministry of Health Malaysia, 2 Institute for Health Systems Research, National Institutes of Health, Ministry of Health Malaysia, 3 Petaling District Health Office, Ministry of Health Malaysia, 4 Sector for Biostatistics & Data Repository, Research Policy and Planning Division, National Institutes of Health, Ministry of Health Malaysia
P-25	<b>TRENDS OF OVERWEIGHT AND OBESITY AMONG MALAYSIAN ADULTS FROM 2011 TO 2019: FINDINGS FROM NATIONAL HEALTH AND MORBIDITY SURVEY (NHMS) 2011, 2015 AND 2019</b> Syafinaz Mohd Sallehuddin <sup>1</sup> , Azli Baharudin <sup>1</sup> , Munawara Pardi <sup>1</sup> , Suhaila Abd Ghaffar <sup>1</sup> , Nur Shahida Abdul Aziz <sup>1</sup> , Ruhaya Salleh <sup>1</sup> , Ahmad Ali Zainuddin <sup>1</sup> , Mohamad Hasnan Ahmad <sup>1</sup> , Norazizah Ibrahim Wong <sup>2</sup> , Sharifah Nazeera Syed Anera <sup>2</sup> 1 Institute for Public Health, National Institutes of Health, Ministry of Health Malaysia, 2 Sector of Biostatistics and Data Repository, National Institutes of Health, Ministry of Health Malaysia
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P-27	<b>DO YOU HAVE WORK RELATED MUSCULOSKELETAL DISORDERS (WRMSDS)? - COMPLAINTS FROM OUR NURSES FROM A TERTIARY HOSPITAL IN MALAYSIA</b> Saraswathi Krishnan <sup>1</sup> , Premaa Supramaniam <sup>2</sup> , Gunasunderi Raju <sup>3</sup> , Omar bin Shawkataly <sup>3</sup> 1 Patology Department, Raja Permaisuri Bainun Hospital, Ipoh Perak, MOH Malaysia, 2 Clinical Research Centre, Raja Permaisuri Bainun Hospital, Ipoh Perak, MOH Malaysia, 3 School of Distance Education, Universiti Sains Malaysia, Malaysia
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P-29	<b>DEPRESSION AMONG ADOLESCENTS IN MALAYSIA: A COMPARISON OF FINDINGS BETWEEN NATIONAL HEALTH &amp; MORBIDITY SURVEY (NHMS) 2012 AND 2017</b> Nor`Ain Ab Wahab, Norhafizah Sahril, Chan Ying Ying, Nik Adilah Shahein, Muhammad Solihin Rezali, Muhd Hafizuddin Taufiq Ramli, Mohd Shaiful Azlan Kassim, Fatin Athira Tahir Centre of Family Health Research, Institute for Public Health, National Institutes of Health, Ministry of Health Malaysia
P-30	<b>URINARY MINERALS EXCRETION AMONG MALAYSIAN ADULTS: A DESCRIPTIVE STUDY</b> Lalitha Palaniveloo <sup>1</sup> , Noor Safiza Mohamad Noor <sup>2</sup> , Ruhaya Salleh <sup>1</sup> , Fatimah Othman <sup>3</sup> , Mohd Fairulnizal Md Noh <sup>4</sup> , Norhayati Mustafa Khalid <sup>4</sup> , Nashrah Adillah Ismail <sup>1</sup> 1 Institute for Public Health, National Institutes of Health, Ministry of Health Malaysia, 2 Allied Health Sciences Division, Ministry of Health Malaysia, 3 Hospital Sultanah Aminah, Johor, Ministry of Health Malaysia, 4 Institute of Medical Research, National Institutes of Health, Ministry of Health Malaysia



P-31	<b>TRENDS IN HYPERCHOLESTEROLEMIA, TREATMENT AND CONTROL AMONG ADULTS IN MALAYSIA</b> Halizah Mat Rifin, Wan Shakira Rodzlan Hasani, Tania Gayle Robert Lourdes, Nur Liana Abdul Majid, Jane Ling Miaw Yn, Thamil Arasu Saminathan, Hasimah Ismail, Mohd Ruhaizie Riyadzi Muhammad Fadhli bin Mohd Yusoff Centre for Non-Communicable Diseases Research (CNCDR), Institute for Public Health
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P-33	<b>PREVALENCE OF HEPATITIS B (HBSAG) IN MALAYSIA: FINDINGS FROM THE MALAYSIAN COHORT STUDY</b> Mohd Hatta Bin Abdul Motalip <sup>1</sup> , Nor Asiah Muhamad <sup>2</sup> , Rimah Melati Ab. Ghani <sup>2</sup> , Eida Nurhadzira Muhammad <sup>1</sup> , Hasmah Mohamad Haris <sup>1</sup> , Rozainanee Mohd Zain <sup>3</sup> , Noraidatulakma Abdullah <sup>4</sup> , Muhammad Radzi Abu Hassan <sup>5</sup> 1 Center for Communicable Diseases Epidemiology Research, Institute for Public Health, National Institutes of Health, Ministry of Health Malaysia, 2 Evidence-based sector, National Institutes of Health, Ministry of Health Malaysia, 3 Institute for Medical Research, National Institutes of Health, Ministry of Health Malaysia 4UKM Medical Molecular Biology Institute (UMBI), UKM Medical Centre, Kuala Lumpur, Malaysia, 5 Hospital Sultanah Bahiyah, Alor Setar, Kedah
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P-36	<b>MENTAL HEALTH STATUS OF HEALTHCARE WORKERS AFTER COVID 19 SCREENING</b> Khalifah Nabilah Binti Mashar <sup>1</sup> , Rohidayah Binti Abd Majid <sup>1</sup> , Nor Azwani Binti Che Yusoff <sup>2</sup> , June Asmanita Binti Tajuddin <sup>3</sup> , Amin Hafizuddin Bin Hamis <sup>4</sup> 1 Clinical Research Centre, HPSF Muar, 2 Psychiatry Department, HPSF Muar, 3 Counselling Unit, HPSF Muar, 4 Public Health Unit, HPSF Muar
P-37	<b>ASSOCIATION OF METABOLIC SYNDROME WITH RISK OF MORTALITY AMONG MALAYSIAN ADULTS</b> Kee Chee Cheong <sup>1</sup> , Lim Kuang Hock <sup>2</sup> , Sumarni Mohd Ghazali <sup>2</sup> , Teh Chien Huey <sup>2</sup> , Cheah Ong Kang <sup>3</sup> , Azli Baharudin <sup>4</sup> , Lim Hui Li <sup>5</sup> , Abdul Muneer Abdul Hamid <sup>1</sup> , Idzwan Mustapha <sup>6</sup> , Azahadi Omar <sup>1</sup> 1 Sector for Biostatistics & Data Repository, National Institutes of Health, 2 Institute for Medical Research 3 University Utara Malaysia, Sintok, Kedah, 4 Institute for Public Health, 5 Sultan Ismail Hospital, Johor Bahru 6 Disease Control Division, Ministry of Health Malaysia, Putrajaya
P-38	<b>EXPLORING CLUSTER HOSPITAL IMPLEMENTATION PROCESS USING CONSOLIDATED FRAMEWORK FOR IMPLEMENTATION RESEARCH (CFIR)</b> Ili Liyana Khairul Anuar, Pangie Anak Bakit, Ng Rui Jie, Nur Jihan Noris, Nor Hayati Ibrahim Institute for Health Management, National Institutes of Health
P-39	<b>KNOWLEDGE, ATTITUDES AND PRACTICES ON COVID-19 AMONG SOCIAL MEDIA USERS</b> Halimah Hana A Karim, Darmini Selvan, Azim Hazizuddin Nasaruddin, Phei Ming Chern Clinical Research Centre, Hosp Rehabilitasi Cheras
P-40	<b>SCREEN TIME AND SOCIAL EMOTIONAL DEVELOPMENT</b> Catherine Thamarai Arumugam, Mas Ayu Said, Nik Daliana Nik Farid Department of Social and Preventive Medicine, Faculty of Medicine, University of Malaya
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- P-42 **WASTING CHILDREN UNDER FIVE YEARS OLD IN PUTRAJAYA**  
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Nur Ainin Aqilah Binti Mohd Rafi<sup>1</sup>, Nursyuhaidah Binti Ramli<sup>1</sup>, Raja Masturah Binti Raja Sulaiman<sup>2</sup>, Soo Pei Pei<sup>1</sup>, Dandaithapani Thyagarajan<sup>3</sup>  
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- P-47 **PROSPECTIVE STUDY ON FACTORS AFFECTING DISPENSING DELAY IN OUTPATIENT PHARMACY, HOSPITAL TUANKU FAUZIAH (HTF)**  
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- P-48 **UNDERSTANDING THE COVID-19 OUTBREAK RESPONSE ACTIVITIES FROM DISTRICT HEALTH OFFICES' PERSPECTIVE**  
Intan Syafinaz Saimy<sup>1</sup>, Noraziani Khamis<sup>1</sup>, Nor Hayati Ibrahim<sup>1</sup>, Nor Zam Azihan Mohd Hassan<sup>2</sup>, Nur Khairah Badaruddin<sup>1</sup>, Masitah Mohamed<sup>3</sup>, Faridah Kusnin<sup>3</sup>, Sukhvinder Singh Sandhu<sup>3</sup>  
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- P-49 **SPUTUM SMEAR CONVERSION RATE AT TWO MONTHS POST TREATMENT AMONG TUBERCULOSIS (TB) PATIENTS IN MALAYSIA AND FACTORS ASSOCIATED WITH**  
Eida Nurhadzira Muhammad<sup>1</sup>, Noor Aliza Lodz<sup>1</sup>, Mohd Hatta Abdul Motalip<sup>1</sup>, Hasmah Mohamad Haris<sup>1</sup>, Muhammad Faiz Mohd Hisham<sup>1</sup>, Asmah Razali<sup>2</sup>  
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P-51	<b>THE PRACTICE OF SELF PRECAUTION MEASURES DURING COVID-19 PANDEMIC</b> Darmini A/P Selvan, Halimah Hana Binti A Karim, Chern Phei Ming, Azim Hazizuddin Bin Nasaruddin Clinical Research Centre, Hospital Rehabilitasi Cheras
P-52	<b>AN AGE-STRATIFIED POPULATION-BASED COVID-19 SEROPREVALENCE STUDY PROTOCOL FOR NHMS 2020</b> Zhuo Lin Chong <sup>1</sup> , Mohd Hatta bin Abdul Motalip <sup>1</sup> , Noor Aliza binti Lodz <sup>1</sup> , Hasmah binti Mohamed Haris <sup>1</sup> , Eida Nurhadzira binti Muhammad <sup>1</sup> , Ravindran a/l Thayan <sup>2</sup> , Jamal I-Ching Sam <sup>3</sup> , Khebir bin Verasahib <sup>4</sup> , Benedict Sim Lim Heng <sup>5</sup> , Maznieda binti Mahjom <sup>1</sup> , Noor Ani binti Ahmad <sup>1</sup> 1 Institute for Public Health, National Institutes of Health, Ministry of Health, 2 Institute for Medical Research, National Institutes of Health, Ministry of Health, 3 Department of Medical Microbiology, Faculty of Medicine, University of Malaya, 4 Disease Control Division, Ministry of Health, Putrajaya, 5 Department of General Medicine, Sungai Buloh Hospital, Ministry of Health
P-53	<b>COMPLIANCE OF PRIVATE PRIMARY HEALTH CARE FACILITIES ON THE REQUIREMENTS OF LABELLING OF DISPENSED MEDICINE IN SARAWAK</b> Shing Chyi Loo <sup>1</sup> , Luqman Nulhakim bin Said <sup>1</sup> , Logavinod Nakaswaram <sup>2</sup> , Yik Hui Lee <sup>3</sup> , Ee Ming Yui <sup>4</sup> , Izzah Alia Binti Mohamad Rosli <sup>1</sup> , Jessica Pei Sze Low <sup>2</sup> , Ridhwan Bin Abdul Razak <sup>1</sup> 1 Sarawak Pharmacy Enforcement Branch (Kuching), 2 Sarawak Pharmacy Enforcement Branch (Miri), 3 Sarawak Pharmacy Enforcement Branch (Sibu), 4 Sarawak Pharmacy Enforcement Branch (Bintulu)
P-54	<b>PROLONGED NEONATAL JAUNDICE CHARACTERISTICS AT PRIMARY HEALTH CLINICS IN KOTA BHARU, KELANTAN: JULY TO DECEMBER 2019</b> Hazlienor Mohd Hatta, Mohd Ikhwan Azmi, Nik Aida Nik Adib, Najihah Mahfuzah Zakria, Latifah Dahlan Kota Bharu District Health Office, Kelantan
P-55	<b>PREVALENCE OF SEROCONVERSION OF COVID-19 AMONG HEALTHCARE WORKER IN HOSPITAL QUEEN ELIZABETH II</b> Yen Chia How <sup>1</sup> , Sahrin Bin Saharudin <sup>1</sup> , Emelyne Bani Anak Jam <sup>1</sup> , Gridhari Nath <sup>2</sup> , Wan Sherhan <sup>3</sup> , Pamini Pilai <sup>1</sup> , Teoh Eu Vin <sup>1</sup> , Suhana Japar <sup>1</sup> , Liew Hounng Bang <sup>1,4</sup> 1 Clinical research Center, Hospital Queen Elizabeth II, 2 Occupational safety and health unit, Hospital Queen Elizabeth II, 3 Infectious control unit, Hospital Queen Elizabeth II, 4 Cardiology Department, Hospital Queen Elizabeth II
P-56	<b>A SYSTEMATIC REVIEW OF PANDEMIC PREPAREDNESS PLAN ACROSS THE WORLD</b> Roslinda Abu Sapien <sup>1</sup> , Nor Asiah Muhamad <sup>1*</sup> , Nor Soleha Mohd Dali <sup>2</sup> , Rimah Melati Ab Ghani <sup>1</sup> , Mohammed Faizal Bakhtiar <sup>2</sup> , Chun Lai Too <sup>2</sup> , Mohamad Zabri Johari <sup>3</sup> , Maznieda Mahjom <sup>4</sup> , Fatin Norhasny Leman <sup>1</sup> , Wei Hong Lai <sup>5</sup> , S Asmaliza Ismail <sup>1</sup> , Nai Ming Lai <sup>6</sup> , Nurul Syarbani Eliana Musa <sup>1</sup> , Mohd Idris Omar <sup>1</sup> , Tahir Aris <sup>2</sup> 1 Manager Office, National Institutes of Health, Ministry of Health Malaysia, 2 Institute for Medical Research, National Institutes of Health, Ministry of Health Malaysia, 3 Institute for Health Behavioural Research, National Institutes of Health, Ministry of Health Malaysia, 4 Institute for Public Health, National Institutes of Health, Ministry of Health Malaysia, 5 Institute for Clinical Research, National Institutes of Health, Ministry of Health Malaysia, 6 School of Medicine, Faculty of Health and Medical Sciences, Taylor's University, Subang Jaya, Selangor, Malaysia.
P-57	<b>IDENTIFYING RESEARCH AREA IN MENTAL HEALTH UNDER NATIONAL HEALTH RESEARCH PRIORITY SETTING IN MALAYSIA</b> Nurul Syarbani Eliana Musa <sup>1</sup> , Nor Asiah Muhamad <sup>1*</sup> , Fatin Norhasny Leman <sup>1</sup> , Nor Soleha Mohd Dali <sup>2</sup> , Rimah Melati Ab Ghani <sup>1</sup> , Mohammed Faizal Bakhtiar <sup>2</sup> , Chun Lai Too <sup>2</sup> , Mohamad Zabri Johari <sup>3</sup> , Roslinda Abu Sapien <sup>1</sup> , Maznieda Mahjom <sup>4</sup> , Mohd Idris Omar <sup>1</sup> , Wei Hong Lai <sup>5</sup> , S Asmaliza Ismail <sup>1</sup> , Nai Ming Lai <sup>6</sup> , Tahir Aris <sup>2</sup> 1 Manager Office, National Institutes of Health Malaysia, MOH Malaysia, 2 Institute for Medical Research, National Institutes of Health, MOH Malaysia, 3 Institute for Health Behavioural Research, National Institutes of Health, MOH Malaysia, 4 Institute for Public Health, National Institutes of Health, MOH Malaysia, 5 Institute for Clinical Research, National Institutes of Health, MOH Malaysia, 6 School of Medicine, Faculty of Health and Medical Sciences, Taylor's University, Selangor
P-58	<b>COMPARISON OF PROBLEMS FACED BY MALAYSIANS DURING MOVEMENT CONTROL ORDER (MCO) AND CONDITIONAL MCO (CMCO)</b> Halimah Hana binti A Karim, Azim Hazizuddin bin Nasaruddin, Darmini Selvan, Chern Phei Ming Clinical Research Centre, Hospital Rehabilitation Cheras
P-59	<b>PARENTAL AND PEER INFLUENCES ON ADOLESCENT SMOKING INITIATION</b> Lim Kuang Hock, Heng Pei Pei, Lim Hui Li, Cheong Yoon Ling, Sumarni Mohd Ghazali, Teh Chien Huey, Kee Chee Cheong, Balvinder Singh Gill, Lim Jia Hui Institute for Medical Research, National Institutes of Health
P-60	<b>PATIENTS' WILLINGNESS TO PAY FOR THEIR OWN MEDICATIONS IN HEALTHCARE SETTING IN PERLIS, MALAYSIA</b> Nur Syafiqah Hasmadi, Nor Syahirah Shukri, Wan Nor Amalina Zainun, Tan Keh Ying Pharmacy Department, Hospital Tuanku Fauziah, Ministry of Health Malaysia

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