

The Republic of the Union of Myanmar
Ministry of Health



44th MYANMAR HEALTH RESEARCH CONGRESS

Programme and Abstracts

5-9 January 2016

**The Republic of the Union of Myanmar
Ministry of Health**

44th MYANMAR HEALTH RESEARCH CONGRESS

Programme and Abstracts

5-9 January 2016

FORWARD

The Myanmar Health Research Congresses have been proudly conducted by the Ministry of Health over the years to create a platform for ingenious research minds and multiple collaborators to join together in concerted efforts to impart knowledge and gain insights in priority health issues.

Health Research is a mean of providing evidence-based results for the Ministry of Health and other stakeholders to synthesize best practices and policies in developing a focused research agenda to address critical gaps in solving health related problems. Scientific research not only can dramatically change health outcomes, but supports nation-wide sustainable development. As the global focus turns undoubtedly towards the post-2015 Sustainable Development Goals, increased understanding of the value and essence of research and innovation on health is of critical importance. Health Policy and Systems Research (HPSR) supports activities related to reforms and formulation of new strategic plans and evaluate the efficient implementation of health programmes. This year's research themes not only touch upon infectious diseases and the importance of emerging microbial resistance but also realize the critical importance of the upsurge of non-communicable diseases.

In this era of transition, results from high quality research become a pavement to create the next National Health agenda. Research projects involving Nation-wide surveys such as (1) Service Availability and Readiness Assessment supported by WHO Country Office and GAVI is a key component of Universal Health Coverage (2) Reproductive Commodity Survey supported by UNFPA is a revelation of the recent logistic supply chain showing the importance of Reproductive Health commodity security and (3) the Nation-wide Hepatitis B and C prevalence study provided evidence-based data for the forthcoming National Hepatitis Control Programme to advocate donors and policy makers the importance of reduction of disease burden on the health care system. These nation-wide surveys are some of the success stories and living evidence of the cohesive efforts of multiple stakeholders.

The agenda for this year, encompassing five days, include ninety-nine research paper presentations, forty-nine poster presentations, ten scientific symposia and four scientific talks. Lastly, but by no means the least, my heartfelt congratulations to the researchers, international participants and various working committees for their tireless efforts to make the 44th Myanmar Health Research Congress an epitome of success.

Chairman

Organizing Committee

44th Myanmar Health Research Congress

PROGRAMME

***ABSTRACTS OF
THE PAPERS PRESENTED***

***ABSTRACTS OF
THE POSTERS DISPLAYED***

***PREVIOUS
AWARD WINNERS***

STEERING COMMITTEE
AND
SUPPORTING COMMITTEES

44th MYANMAR HEALTH RESEARCH CONGRESS
LIST OF SPONSORS

DIAMOND SPONSOR

Myanmar American Vision Co., Ltd.

PLATINUM SPONSORS

Amtt Co., Ltd.

Melbourne University

BioMed Myanmar Co., Ltd.

GOLD SPONSORS

Nanova Co., Ltd.

Sea Lion Co., Ltd.

Ni Ni Diagnostic & Health Care Centre

Burnet Institute

Lwin Myint Aung Industry Co., Ltd.

Zizawa Healthcare Co., Ltd.

Shwin Chan Trading

Mo Asia

Okkar Thiri Co., Ltd.

SILVER SPONSORS

Myanmar Zircon Co., Ltd.

Lucky World Co., Ltd.

Multi-Vortex Co., Ltd.

Alpha Co., Ltd.

Uni Diagnostic Co., Ltd.

44th MYANMAR HEALTH RESEARCH CONGRESS
 Department of Medical Research
 No. 5, Ziwaka Road, Dagon Township, Yangon, Myanmar

INAUGURAL SESSION

5th January, 2016

Auditorium (2) Advanced Molecular Research Centre

08:00hr Inaugural speech by
 H.E. Dr. Than Aung
 Union Minister
 Ministry of Health

09:00hr Refreshments

ACADEMIC SESSION

Department of Medical Research
 No. 5, Ziwaka Road, Dagon Township, Yangon

Day 1

Auditorium -1

Day (1)- Morning Session

Chairpersons:	H.E. Dr. Than Aung Union Minister Ministry of Health	Dr. Kyaw Zin Thant Director General Department of Medical Research
10:00-10:20 <i>Paper-1</i>	National prevalence of diabetes and prediabetes in Myanmar (2014) <i>Tint Swe Latt, Ko Ko Zaw, Ko Ko, Moh Moh Hlaing, Mya Ohnmar, Ei Sandar Oo and Kyaw Myint Myat Thein</i>	
10:20:10:40 <i>Paper-2</i>	Early detection of lymphatic disturbance in adolescents infected with lymphatic filariasis <i>Jan Douglass, Susan Gordon, Patricia Grave, Ni Ni Aye, Khin Nan Lon, Khin Saw Aye, Yi Yi Win, San San Win and Tint Wai Tun</i>	
10:40-11:00 <i>Paper-3</i>	Social determinants of under-five mortality in central regions of Myanmar <i>Kyaw Oo, Tin Tin Wynn and Myint Myinnt Than</i>	
11:00-11:20 <i>Paper-4</i>	Molecular epidemiology of cholera in Yangon and characterization of <i>Vibrio cholerae</i> O1 isolates <i>Kazuhisa Okada, Wah Wah Aung, Mathukorn Na Ubol, Wirongrong Natakuathung, Warawan Wongboot, Toe Sandar, Nan Aye Thida Oo, Mya Mya Aye and Shigeyuki Hamada</i>	
11:20-11:40 <i>Paper-5</i>	Role of leprosy affected persons as peer educators in early new leprosy case detection in Pantanaw Township, Ayeyarwady Region: Operational research <i>Kyaw Kyaw Lin, Oaksoe Han, Le Le Win, Yin Thet Nu Oo, Kyi Maw Than, Soe Thet and Thura Zaw</i>	

Auditorium -1

Day (1) - Afternoon Session (1)

Chairpersons:	Professor Dr. Thet Khaing Win Permanent Secretary Ministry of Health	Professor Dr. Zaw Wai Soe Rector University of Medicine 1, Yangon
1:00-1:20 <i>Paper-6</i>	Effect of exercise on back pain and function in patients with osteoporotic vertebral fracture <i>May Khaing Ye Naung, Nwe Win Naing and Khin Myo Hla</i>	
1:20-1:40 <i>Paper-7</i>	Drug utilization pattern of opioid and other analgesics in cancer patients with pain <i>Thandar Htar Lwin, Soe Yu Zaw and May Hla Thwin</i>	
1:40-2:00 <i>Paper-8</i>	Sexual risk behaviours among young men who have sex with men in selected townships in Myanmar <i>Zaw Win Thein, Poe Poe Aung, Claire Ryan, Swai Mon Oo, Naanki Pasricha, Waimar Tun, Ei Mon Soe, Ne Tun Zaw and Stanley Luchters</i>	
2:00-2:20 <i>Paper-9</i>	Are peer educators increasing the sexual health seeking behavior for men who have sex with men in selected townships in Myanmar? <i>Aye Kyawt Paing, Poe Poe Aung, Claire Ryan, Kyaw Zayar Aung, Naanki Pasricha, Waimar Tun, Ei Mon Soe, Ne Tun Zaw and Stanley Luchters</i>	
2:20-2:40 <i>Paper-10</i>	Psychological Assessment by a general health questionnaire of Youth in Myanmar <i>Nilar Kyu, Aung Aung Kyi and Khin Khin Aye</i>	

Auditorium -1

Day (1) - Afternoon Session (2)

Chairpersons:	Professor Dr. Myint Han Director General Department of Medical Services	Professor Dr. Chit Soe Professor/Head Department of Medicine University of Medicine 2, Yangon
3:00-3:20 <i>Paper-11</i>	Comparative study of saline wet mount and modified Kato-Katz method for detection of intestinal helminths from under 5-year children of day care centres, Mingaladon Township <i>Set Paing Htoo, Thet Naing Phyto, Khine Khine Su, Khin Maung Nyunt and Tin Maung Hlaing</i>	
3:20-3:40 <i>Paper-12</i>	Microalbuminuria as a marker of disease activity in rheumatoid arthritis patients <i>Aung Kyaw Soe, Min Zaw Oo, Myat Mon, Hlaing Mya Win and Chit Soe</i>	
3:40-4:00 <i>Paper-13</i>	Single nucleotide polymorphism at RS7903146 of transcriptional factor 7 like 2 gene with two hour post prandial glucose levels and insulin levels <i>Sagawah Phu, Aye Thida and Kyu Kyu Maung</i>	
4:00-4:20 <i>Paper-14</i>	Synthesis and applications of alumina nanoparticles from Coal Fly Ash <i>Myat Myat Thaw and Khine Thin Thin Aye</i>	

Day 2

Auditorium - 1

Chairpersons:	Dr. Soe Lwin Nyein Director General Department of Public Health	Dr. Myat Phone Kyaw Deputy Director General(Rtd.)/Expert Department of Medical Research
8:30-8:50 Paper-15	Heterogeneous prevalence of asymptomatic malaria and co-morbidities in pregnant women <i>Kay Thwe Han, Aung Thi, Zaw Lin, Khin Thet Wai, Kyin Hla Aye, Poe Poe Aung, Matthew Adams, Christopher V. Plowe and Myaing Myaing Nyunt</i>	
8:50-9:10 Paper-16	Clinical study on efficacy and safety of Duocotecxin (Dihydro-artemisinin-Piperaquine) in uncomplicated falciparum malaria in adults in Homalin <i>Khin Phyu Pyar, Sai Aik Hla, Soe Win Hlaing, Chan Aye Aung and Tin Maung Hlaing</i>	
9:10-9:30 Paper-17	Bacteraemia in severe falciparum malaria <i>Ne Myo Aung, Phyo Pyae Nyein, Zaw Win Htet, Mar Mar Kyi, Tint Tint Kyi, Josh Hanson, Nicolas Anstey, Nan Cho Nwe Mon and Myat Phone Kyaw</i>	
9:30-9:50 Paper-18	Detection of asymptomatic malaria infection in Shwe Kyin Township, Myanmar by molecular method <i>Myat Htut Nyunt, Myat Phone Kyaw, Kyaw Zin Thant, Thinzar Shein, Ni Ni Zaw, Soe Soe Han and Eun Taek Han</i>	
9:50-10:10 Paper-19	Targeted mass treatment (TMT) of malaria in areas of suspected or proven artemisinin resistance in Kayin State, Myanmar <i>Frank Smithuis, Aung Kyaw Phyo, Sai Maung Maung, Aung Hlian, Kyaw Myo Tun, Aung Phone Myint, Thaug Hlaing, Nick White and Arjen Dondorp</i>	

Day (2) - Morning Session (1)

Auditorium - 1

Chairpersons:	Professor Dr. Rai Mra President Myanmar Medical Association	Dr. Khin Lin Deputy Director General (Rtd.)/Expert Department of Medical Research
10:25-10:45 Paper-20	Measurement of sub-clinical malaria burden and preliminary report on evaluation of targeted mass treatment of malaria in Tanintharyi Region <i>Si Thura, Aung Thi, Myat Phone Kyaw, Kay Thwe Han, Myaing Myaing Nyunt, Christopher V. Plowe, Adam Richard, Tom Lee and Aye Aye Khaing</i>	
10:45-11:05 Paper-21	Monitoring of <i>Plasmodium vivax</i> infection in selected townships <i>Moe Kyaw Myint, Aung Thu, Mya Moe, Phyu Phyu Win, Win Htay Hlaing, Aung Kyaw Soe, Toe Aung and Khin Lin</i>	
11:05-11:25 Paper-22	Knowledge, attitude and utilization of insecticide treated bed-nets among migrants workers in Thabeikkyin Township <i>Aung Thu, Htin Zaw Soe and Hla Hla Win</i>	
11:25-11:45 Paper-23	Assessment of effectiveness of active case detection for tuberculosis cases using two consecutive mobile team activities in hard-to-reach area, Laukkai Township, Northern Shan State, Myanmar <i>Thida, Thandar Lwin, Saw Thein, Thandar Thwin, Ko Ko Htwe, Tin Tin Wynn, Kyaw Ko Ko Htet and Yi Yi Myint</i>	

Day (2) - Morning Session (2)

11:45-12:05
 Paper-24
 Feelings and experiences of pulmonary tuberculosis patients who fail to take regular anti-TB treatment regime at No. (1) Defence Services General Hospital, Mingaladon
 Soe Yu May, Nwe Nwe Soe, Mi Mi Khin and Htar Htar Soe

Auditorium -1

Day (2) - Afternoon Session (1)

Chairpersons: Dr. Yi Yi Myint
 Director General
 Department of Traditional Medicine

Professor Dr. Myat Thandar
 Rector
 University of Nursing, Yangon

1:00-1:20
 Paper-25
 Comparative diuretic effect of the whole plant and fruits of *Tribulus terrestris* Linn. (ဆူးပင်) in Wistar albino rats
 Aye Min Maw, Khin Phyu Phyu, Phyu Phyu Myo Kyaw, Khaing Khaing Mar, Kyi San, Aung Thura, Nu Nu Aye, Khin Thane Oo and Yi Yi Myint

1:20-1:40
 Paper-26
 Anti-inflammatory activity of the root of *Leea macrophylla* Roxb. (Kya-hpet-gyi) on carrageenan induced albino rats
 Swe Swe, Khin Mar Yi, Kyi Kyi Oo, Sandar Linn, Aye Thida Htun, May Thandar Htun, Min Zaw Oo, Kyaw Thein Htay and Win Aung

1:40-2:00
 Paper-27
 Comparative study of active curcumin content from four Curcuma species in Myanmar
 Khin Tar Yar Myint, Tin Sein Mar, Mu Mu Sein Myint, Khine Khine Lwin, Khin Phyu Phyu, Phyu Phyu Win, Myint Myint Khine, Mar Mar Myint and Mi Aye Aye Mon

2:00-2:20
 Paper-28
 Antihypertensive effect of *Allium sativum* Linn. (Garlic) bulbs tablets on stage 1 hypertensive patients
 Khine Khine Lwin, Han Win, Nu Nu Win, Tin Tin Htay, Win Pa Pa Naing, Win Win Maw, Phyu Phyu Win, Ei Ei Soe and Aye Zarni

2:20-2:40
 Paper-29
 Health related quality of life in multi-transfused thalassemia children having iron chelation therapy
 Win Pa Pa Naing, Ohnmar, Aye Aye Khaing, Aye Mya Khine, Tint Myo Hnin and Zin Zin Thu

Auditorium -1

Day (2) Afternoon Session (2)

Chairpersons: Professor Dr. Pe Thet Khin
 Advisor to the President

Professor Col. Yin Yin Htun (Rtd.)
 Defence Services Medical Academy

3:00-3:20
 Paper-30
 Profile of paediatric malignancies in Yangon Children Hospital: A three years study
 Ssu Wynn Mon, Aye Aye Khaing, Han Win, Tint Myo Hnin, Ye Myat Thu, Theingi Thwin and Kyaw Zin Thant

3:20-3:40
 Paper-31
 Preliminary study on flow cytometric immunophenotyping of childhood acute leukemia
 Win Pa Pa Naing, Aye Mya Khine, Khin La Pyae Tun, Aye Aye Khaing, Myint Myint Than, San San Htwe, Tint Myo Hnin, Khin Saw Aye and Win Myat Oo

3:40-4:00
 Paper-32
 The effect of low level laser therapy in the treatment of post-mastectomy lymphedema
 Lei Lei Winn, Myo Thuzar Khin and Khin Myo Hla

4:00-4:20 Immunoexpression of CD10 and estrogen receptor in invasive ductal carcinoma of breast (no special type)
Paper-33
Khin Kant Kaw Oo, Nyo Me May Thyn, Yin Nwe and Myint Myint Nyein

4:20-4:40 Assessment of serum HER 2/NEU by using ELISA method in breast cancer patients, Yangon General Hospital, Myanmar
Paper-34
Zin Zin Thu, Khin Saw Aye, Myo Myint Maw, Ohn Mar, Aye Mya Khine, Ni Ni Win, Aye Myint Oo and Kyaw Zin Thant

Day 2 (SRC Parallel Session)

SRC Conference Hall

Day (2) Morning Session (1)

Chairpersons: **Dr. Than Htut**
 Director General
 Department of Food and Drug Administration

Dr. Yin Thandar Lwin
 Deputy Director General (Public Health)
 Department of Public Health

08:30-08:50 Stunting and zinc nutritional status among primary school children in North Okkalapa Township
Paper-35
Khin Nyo Thein, Win Lai May, Han Win, Aung Khin Thein, Myat Mon Aye, Zaw Win Hlaing, Yang Naing Moe, Aung Aung Maw and Theingi Thwin

08:50-09:10 Dietary diversity and nutritional status of children aged 12-23 months from Ayeyarwady Region of Myanmar
Paper-36
Lwin Mar Hlaing, Min Kyaw Htet, Agus Firmansyah, Budi Utomo and Umi Fahmida

09:10-09:30 Nutritional status of primary school children from four geographical regions of Myanmar
Paper-37
Moh Moh Hlaing, Mya Ohnmar, Sandar Tun, Myat Myat Thu, Thidar Khine, Wah Wah Win, Su Su Hlaing, Hla Phyto Linn and Ko Ko Zaw

09:30-09:50 Dietary habits and nutritional status of the elderly in Insein Township, Yangon Region in 2013
Paper-38
Lwin Lwin Aye, Htin Linn, Moh Moh Hlaing and Aye Mya Aung

09:50-10:10 Effectiveness of health education on the knowledge of the groundwater dependent rural residents regarding arsenic contaminated water at Kyonpyaw Township
Paper-39
Ohnmar Myint and Nang Htawn Hla

SRC Conference Hall

Day (2) Morning Session (2)

Chairpersons: **Professor Dr. Aye Maung Han**
 Emeritus Professor
 Department of Paediatrics
 University of Medicine 1, Yangon

Professor Dr. Ye Myint Kyaw
 Professor/Head
 Department of Paediatrics
 University of Medicine 1, Yangon

10:25-10:45 Output towards input: Input for consideration of Rotavirus vaccine introduction in Myanmar by output from Rotavirus Sentinel Surveillance
Paper-40
Theingi Win Myat, Hlaing Myat Thu, Ye Myint Kyaw, Khin Mar Aye, Mo Mo Win, Thin Thin Shwe, Khin Khin Oo, Khine Moe Aung and Kyaw Zin Thant

10:45-11:05 <i>Paper-41</i>	Characterization of measles virus, rubella virus and parvovirus B19 in children presenting with fever and rash <i>Mo Mo Win , Hlaing Myat Thu, Kyu Kyu Win, Antony P. Black, Ye Myint Kyaw, Hla Myo Thu, Nang Sarm Hom, Wah Win Htike and Kyaw Zin Thant</i>
11:05-11:25 <i>Paper-42</i>	Molecular detection of influenza viruses circulating among children attending Yangon Children Hospital, 2015 <i>Htin Lin, Hlaing Myat Thu, Mo Mo Win, Khin Mar Aye, Win Mar, Hla Myo Thu, Khin Khin Oo, Khin Sandar Aye and Thida Kyaw</i>
11:25-11:45 <i>Paper-43</i>	Identification of dengue serotypes in children with dengue infection at Yangon Children Hospital (2015) <i>Win Kay Khine, Theingi Win Myat, Hlaing Myat Thu, Wah Win Htike, Khine Mar Oo, Khin Mar Aye, Mo Mo Win, Ye Myint Kyaw and Kyaw Zin Thant</i>
11:45-12:05 <i>Paper-44</i>	Clinical profile and bacterial etiology of acute pyogenic meningitis in children <i>Zaw Win Hlaing, Khin Win Myint, Khin Nyo Thein, Ye Myint Kyaw, Than Mya, Wah Wah Aung and Khin Win Kyi</i>

SRC Conference Hall

Day (2) Afternoon Session (1)

Chairpersons:	Professor Dr. Naing Win Rector (Rtd.) University of Medical Technology, Yangon	Professor Dr. Win Win Maw Professor/Head Department of Microbiology University of Medicine 2, Yangon
1:00-1:20 <i>Paper-45</i>	Detection of influenza viruses from patients with influenza-like illness in Mandalay <i>Kay Thwe Thwe Maung, Thida, Latt Latt Kyaw, Poe Poe Lynn, Aye Aye Han, Khin May Oo, Tint Tint Aung and Kyaw Zin Thant</i>	
1:20-1:40 <i>Paper-46</i>	Safety and immunogenicity of recombinant hepatitis B vaccine produced by Beijing Tiantan Biological Products, China <i>Han Win, Khin Saw Aye, Khin Pyone Kyi, Myat Sabai Hlaing, Ssu Wynn Mon, Myat Tin Htwe Kyaw, Kyi May Htwe, Myat Phone Kyaw and Kyaw Zin Thant</i>	
1:40-2:00 <i>Paper-47</i>	Prevalence of hepatitis B and C viral infections in Myanmar <i>Aye Aye Lwin, Khin Saw Aye, Moh Moh Htun, Yi Yi Kyaw, Ko Ko Zaw, Toe Thiri Aung, Myat Phone Kyaw, Khin Pyone Kyi and Kyaw Zin Thant</i>	
2:00-2:20 <i>Paper-48</i>	Whole genome sequencing of hepatitis B virus (HBV) strains from Myanmar <i>Nyi Nyi Win, Aung Zaw Latt, Kay Thi Aye, Hlaing Myat Thu, Yi Yi Kyaw and Kyaw Zin Thant</i>	
2:20-2:40 <i>Paper-49</i>	Detection of hepatitis B virus DNA by real-time PCR using SYBR green dye technology <i>Yi Yi Kyaw, Hyun Kook Cho, Ohmar Lwin, Aye Aye Win, So Young Kim, Hnin Ohmar Soe, Baby Hla, Wai Myat Thwe and Jae Hun Cheong</i>	

Day 3**Auditorium - 1****Day (3) - Morning Session (1)**

Chairpersons:	Professor Dr. Nwe Nwe Oo Director General Department of Health Professional Resource Development and Management	Professor Dr. Nay Soe Maung Rector University of Public Health
08:30-08:50 <i>Paper-50</i>	Care-Seeking behaviors and detection of target organ involvement among hypertensive patients in Yangon Region (2014-2015) <i>Nwe Nwe, Ko Ko Zaw and Sein Hlaing</i>	
08:50-09:10 <i>Paper-51</i>	Current situation and risk factors of smokeless tobacco/betel chewing habit among 9 th grade students <i>Kyi Lwin</i>	
09:10-09:30 <i>Paper-52</i>	The role of delay in receipt of standard cardiac treatment in clinical outcomes of acute myocardial infarction patients admitted to Yangon General Hospital <i>Su Su Hlaing, Ko Ko Zaw and Nwe Nwe</i>	
09:30-09:50 <i>Paper-53</i>	Perception and practice of drug sellers in selected townships in Yangon Region on antibiotic sales without prescription <i>Khin Hnin Pwint, Nyi Nyi Win, Min Wun, Moe Moe Aye, Thiri Aung, Swe Swe Aung, Thinzar Myo, Thin Thin Hlaing and Win Phyu Phyu Zaw</i>	
09:50-10:10 <i>Paper-54</i>	Perception and practice of private pharmacies in Nyaung Lay Pin Township on antibiotics sale without prescription <i>Nyi Nyi Win, Khin Hnin Pwint, Min Wun, Moe Moe Aye, Phyu Phyu Aye, Kyi Kyi Myint, Mya Mya Moe and Ohnmar Than</i>	

Auditorium - 1**Day (3) - Morning Session (2)**

Chairpersons:	Professor Dr. Win Win Mya Emeritus Professor Department of Obstetrics and Gynaecology University of Medicine 1, Yangon	Professor Dr. Hla Hla Win Professor/Head Department of Preventive and Social Medicine University of Medicine 1, Yangon
10:25-10:45 <i>Paper-55</i>	Current practice of contraception and intentions to use hormonal implants among married couples of reproductive age in Upper Myanmar <i>Kyaw Oo, Theingi Myint, Moe Kyaw Myint, Phyu Phyu Thin Zaw and Kyaw Ko Ko Htet</i>	
10:45-11:05 <i>Paper-56</i>	Unmet need of contraception among women with early pregnancy failure admitted to North Okkalapa General and Teaching Hospital <i>Khin Yadana Phyo Phyo Ei, Khin Htar Yi, Mya Thida, Saw Saw and Myat Theingi</i>	
11:05-11:25 <i>Paper-57</i>	Prevention of postpartum hemorrhage and auxiliary midwives in hard to reach area of Myanmar: Qualitative inquiry into feasibility of task shifting <i>Kyu Kyu Than, Theingi Myint, Thazin La, Thandar Aye, Kyaw Soe Thant and Tin Tin Wai</i>	

- 11:25-11:45
Paper-58 Current practices and problems encountered in emergency obstetric care in rural areas of Central Myanmar
Kyaw Oo, Tin Tin Wynn, Theingi Myint, Thandar Myint, Zaw Ye Naing and Bo Lin
- 11:45-12:05
Paper-59 Towards best practices: challenges experienced by midwives during delivery and postpartum period in Northern Yangon District
Nyein Su Aye, Myo Myo Mon, Khin Thet Wai, Aye Kyi Kyi and Phyu Phyu Aye

Auditorium - 1

Day (3) - Afternoon Session (1)

- Chairpersons:** Professor Dr. Htin Zaw Soe
Rector
University of Community Health
- Professor Dr. Khay Mar Mya
Professor/Head
Department of Preventive and Social Medicine
University of Medicine 2, Yangon
- 1:00-1:20
Paper-60 The impact of HIV/AIDS on the children's right to education in Myanmar
Myo Myo Mon, Le Le Win, Yin Thet Nu Oo, Saw Saw, Htun Nyunt Oo, Pa Pa Win Htin, Ko Ko Zaw and Wai Wai Myint
- 1:20-1:40
Paper-61 Every child count: The immunization status of mobile migrant children in Bogalay and Mawlamyinegyun Townships, Ayeyarwady Region
Nyi Nyi Zayar, Wai Wai Han, Saw Saw, Zayar Lynn, Theingi Myint, Myo Myo Mon, Kyaw Myint Tun, Ye Ye Win and Kyaw Myo Htut
- 1:40-2:00
Paper-62 Etiological and clinical profile of children who met NICE criteria for high risk of serious illness
Nwe Nwe Tun, Thazin Win, Khin Nyo Thein, Ye Myint Kyaw, Than Mya and Wah Wah Aung
- 2:00-2:20
Paper-63 Comparative study of vaginal Misoprostol and Tranexamic acid infusion to reduce intra-operative bleeding in abdominal myomectomy at Central Women's Hospital (Yangon)
Thazin Win Han, Khin Pyone Kyi, Yin Yin Soe and Mya Thida
- 2:20-2:40
Paper-64 Study of stillbirths in North Okkalapa General and Teaching Hospital
Ei Phyu Winn, Le Le Win, Khin Htar Yi and May Myo Kywe

Auditorium - 1

Day (3) - Afternoon session (2)

- Chairpersons:** Professor Dr. Aye Aung
Rector (Rtd.)/Expert
University of Medicine 2, Yangon
- Professor Dr. San San Myint
Professor/Head
Department of Obstetrics and Gynaecology
University of Medicine 1, Yangon
- 3:00-3:20
Paper-65 Hysteroscopy versus manual vacuum aspiration for endometrial sampling in patients with abnormal uterine bleeding
Shwe Kyaw, Aye Aye Tint, Win Win Mya and Mya Thida
- 3:20-3:40
Paper-66 Pelvic floor dysfunction after vaginal and Caesarean childbirth in North Okkalapa General and Teaching Hospital
Wint Myat Htike, Khin Htar Yi, Mya Thida and Hla Myat Mo Mo
- 3:40-4:00
Paper-67 Detection of fetal congenital anomalies in pregnancy at Central Women's Hospital, Yangon
Khin Lay, Cherry San, Khin Lay Kywe and Mya Thida

4:00-4:20 Paper-68	Diagnosis of malignant ovarian tumours by conventional ultrasound and resistance index by colour Doppler <i>Yu Nandar Aung, Phyu Phyu Kyaing, Khin Lay Kywe and Mya Thida</i>
4:20-4:40 Paper-69	Urodynamic assessment in postmenopausal women <i>Myint Thet Mon, Khin Lay Kywe, Win Win Mya, Mya Thida, Win Myint Oo, Kay Thi Lwin, Yan Naing Win and Aung Khant</i>

Day 4

Auditorium - 1

Day (4) - Morning Session (1)

Chairpersons:	Professor Dr. San San Nwe Rector University of Pharmacy, Yangon	Professor Dr. Wah Win Hteik Professor/Head Department of Microbiology University of Medicine 1, Yangon
08:30-08:50 Paper-70	The environmental study on Melioidosis in agricultural farms of Thanlyin and Hmawbi townships <i>Mo Mo Win, Thaung Hla, Wah Wah Aung, Hlaing Myat Thu, Thin Thin Wah, Khin Mar Aye, Tin Tin Htwe, May Than Htay and Kyaw Kyaw San</i>	
08:50-09:10 Paper-71	Circulating serotypes of <i>Streptococcus pneumoniae</i> among children with acute respiratory infection in Myanmar <i>Thi Thi Htoon, Nan Aye Thida Oo, Wah Wah Aung, Hlaing Myat Thu, Mon Mon, Wah Win Htike, Masaya Yamaguchi, Shigetada Kawabata and Kyaw Zin Thant</i>	
09:10-09:30 Paper-72	Surveillance of antibiotic sensitivity pattern in respiratory tract infections <i>Ne Myo Aung, Mar Mar Kyi, Yamone Myo, Tint Tint Oo, Wai Phyo, Ne Lin Tun, Tint Tint Kyi and Myo Thant</i>	
09:30-09:50 Paper-73	Molecular diagnosis of atypical pneumonia infection in children presenting with acute respiratory tract infection attending Yangon Children Hospital <i>Hpoo Pwint Myo Win, Wah Wah Aung, Han Win, Ohnmar Aung, Wah Win Htike, Mya Mya Aye, Ssu Wynn Mon and Ye Myint Kyaw</i>	
09:50-10:10 Paper-74	Genetic diversity of clinical <i>Mycobacterium tuberculosis</i> strains from Yangon and Mandalay Regions, Myanmar <i>Phyu Win Ei, Wah Wah Aung, Jong Seok Lee, Wint Wint Nyunt, Thyn Lei Swe, Si Thu Aung, Mi Mi Htwe, Su Mon Win and Chulhun L. Chang</i>	

Auditorium - 1

Day (4) - Morning Session (2)

Chairpersons:	Dr. Hlaing Myat Thu Deputy Director General Department of Medical Research	Professor Dr. Cho Cho Oo Professor/Head Department of Microbiology University of Medicine, Mandalay
10:25-10:45 Paper-75	Detection of <i>Vibrio parahaemolyticus</i> contamination in oysters and clams from some selected markets in Yangon Region <i>Kyi Nyein Win, Theingi Win Myat, Tin Tin Htwe, May Than Htay, Nilar, Myo Myo Kyaw, Mon Mon, Wah Win Htike and Thaung Hla</i>	

10:45-11:05 <i>Paper-76</i>	Microbiological evaluation of indoor air quality in two tertiary Children Hospitals in Yangon <i>Thuzar Myint, Than Mya, Aye Aye Maw, Aye Yin Shwe, Hay Mar Win, Su Mon Win, Mya Mya Aye, Thazin Mon and Wah Wah Aung</i>
11:05-11:25 <i>Paper-77</i>	Causal organism identification and antibiotic sensitivity testing of paediatric diarrhoeal diseases among Children Hospitals, Mandalay and (300) bedded Pyin Oo Lwin General Hospital <i>Saw Myat Thwe, May Thet Naing, Khin Myint Kyi, Phyo Mon Oo, Kyaw Soe, Yi Yi, Aye Aye Myint and Yi Yi Myint</i>
11:25-11:45 <i>Paper-78</i>	Comparative study of detection of <i>Helicobacter pylori</i> in endoscopic gastric biopsies and detection of antibody to <i>Helicobacter pylori</i> in blood <i>Zin Zin Mar Han, Aye Aye Myint, Tin Moe Mya and Aye Aye Khin</i>
11:45-12:05 <i>Paper-79</i>	Bacteriological profile of ascitic fluid from spontaneous bacterial peritonitis patients in Liver Medical Ward, Yangon Specialist Hospital <i>Swe Zin Oo, Yi Yi Kyaw, Myo Pa Pa Thet Hnin Htwe Aung, Thuzar Myint, Than Mya, Wah Wah Aung, Mya Mya Aye and Wah Win Htike</i>

Auditorium - 1

Day (4) Afternoon Session (1)

Chairpersons:	Professor Dr. Khin Maung Lwin Rector University of Medicine, Mandalay	Professor Dr. Mya Mya Aye Professor/Head Department of Microbiology University of Medicine, Magway
1:00-1:20 <i>Paper-80</i>	Multidrug-resistant <i>Mycobacterium tuberculosis</i> strains in Myanmar patients <i>Thanda Tun, Kyi Kyi Thinn, Khin Saw Aye, Win Win Yee, Naw Eh Khu Se, Khin Zaw Latt and Thandar Lwin</i>	
1:20-1:40 <i>Paper-81</i>	Access and utilization of prevention of mother to child transmission services by female sex workers in selected townships in Myanmar <i>Poe Poe Aung, Yadana Khin Khin Kyaw, Pa Pa Win Htin and Than Tun Sein</i>	
1:40-2:00 <i>Paper-82</i>	Benefit of Microscopic Observation Drug Sensitivity (MODS) assay on suspected pulmonary tuberculosis <i>Tin Tin Thein, Khaing Win Htun, Saw Thein, Kay Thwe Thwe Maung, Khin Moh Moh Tun, Mie Mie Lwin, Moe Kyaw Myint and Yi Yi Myint</i>	
2:00-2:20 <i>Paper-83</i>	Whole-genome sequencing of MDR-TB strains from Myanmar <i>Thanda Tun, Htin Lin Aung, Kyi Kyi Thinn, Gregory Cook and John Crump</i>	
2:20-2:40 <i>Paper-84</i>	Determination of <i>Mycobacterium tuberculosis</i> in HIV sero-positive patients with cervical lymphadenopathy using different diagnostic tools <i>Mu Mu Shwe, Sabai Phyu, Kyi May Htwe, Ohnmar Kyaw, Khin Than Maw, Khine Zar Win, San Kalayar Htwe, Htin Aung Saw and Khin Saw Aye</i>	

Auditorium - 1

Day (4) Afternoon Session (2)

Chairpersons:	Professor Dr. Theingi Myint Pro Rector University of Medicine 1, Yangon	Professor Dr. Zaw Lin Aung Professor/Head Department of Medicine University of Medicine 1, Yangon
3:00-3:20 Paper-85	Accumulation and distribution of heavy metals into rice grains, soil and water <i>Khin Phyu Phyu, Mya Mar Lar, Tin Nwe Htwe, Tin Tin Han, Khin Moe Latt, Ohnmar Win, Kyaw Soe and Myat Phone Kyaw</i>	
3:20-3:40 Paper-86	Ascertaining the presence of natural radionuclides in different sources of drinking water in peri-urban eco-setting <i>Win Thaw Tar Lwin, Tin Oo, Htet Nandar Aung, Su Mon, Ni Ni Than, Thin Thin Wah, Si Thu Soe Naing, Ni Ni Maw and Naw Esther</i>	
3:40-4:00 Paper-87	Assessment of alpha track production rate in soil and water from different States and Regions in Myanmar <i>Moe Moe Han, Khin Swe Oo, Khin Htoo, Mya Mya Thwe, Khin Mar Kyu, May Zin, Tin Oo and Myat Phone Kyaw</i>	
4:00-4:20 Paper-88	Plasma ghrelin and insulin resistance in obesity <i>Myat Mon Khine, Kyu Kyu Maung, Tint Swe Latt, May Thazin, May Pyone Kyaw and Aye Thida</i>	
4:20-4:40 Paper-89	Plasma soluble amyloid precursor protein 770, Interleukin 1 β and Interleukin 6 levels in coronary artery diseases <i>Hta Kyi Sunn, Thu Thu Thein Win, Moe Moe Khine, Nwe Nwe and Theingi Myint</i>	

Day 5

Auditorium - 1

Day (5) - Morning Session (1)

Chairpersons:	Dr. Win Aung Deputy Director General Department of Medical Research	Professor Dr. Kyu Kyu Maung Professor/Head Department of Biochemistry University of Medicine 2, Yangon
08:30-08:50 Paper-90	Assessment of serum selenium levels in breast cancer patients <i>Kyae Mhon Htwe, Aye Min Maw, Tin Moe Win, Lei Lei Win, Khaing Khaing Mar, Khin Lay Sein, Aung Thura, Moe Kyaw Myint and Yi Yi Myint</i>	
08:50-09:10 Paper-91	Biochemical profile of breast cancer patients attended to out-patient department of cancer unit, Mandalay General Hospital <i>Kyae Mhon Htwe, Thet Oo Wai, Aye Min Maw, Tin Moe Win, Khin Moe Aung, Saw Ohnmar Khin, Thandar Myint Thaw, Moe Kyaw Myint and Yi Yi Myint</i>	
09:10-09:30 Paper-92	Association between soluble amyloid precursor protein 770 and oxidized low density lipoprotein in coronary artery disease patients <i>Thu Thu Thein Win, Moe Moe Khine and Theingi Myint</i>	
09:30-09:50 Paper-93	Level of cholesterol ester transfer protein in normolipidemic and hyperlipidemic subjects <i>Win Kyaw Thu, Khin Moe Moe Nwe and May Pyone Kyaw</i>	

09:50-10:10 Characterization of hyaluronidase isolated from Russell’s Viper (*Daboia siamensis*) Venom of Myanmar
Paper-94
Thet Thet Mar, Win Aung, Zaw Myint, Lwin Zar Maw, Tin Ko Ko Oo and Nwe Ni Aung

Auditorium - 1

Day (5) - Morning Session (2)

Chairpersons: Professor Aye Htun Rector University of Medicine, Magway Professor Dr. Htay Htay Tin Director National Health Laboratory

10:25-10:45 Prevalence of anemia and haemoglobinopathies in pregnant women living in Bago Region of Myanmar
Paper-95
Moh Moh Htun, Yin Min Htun, Zayar Chit, Myat Mon Oo, Than Than Swe, Khin Myo Set, Mya Ohn Mar, Hlaing Myat Thu and Theingi Myint

10:45 -11:05 Prevalence of haemoglobinopathies among pregnant mothers attending 300- bedded Pyin Oo Lwin General Hospital
Paper-96
Khin Moe Aung, Nyein Nyein Thauung, Myint Myint Khaing, Htay Htay Kyawe, Nwe Nwe Win, Moe Kyaw Myint, Tin Tin Thein and Yi Yi Myint

11:05-11:25 Relationship between serum and erythrocyte magnesium with insulin sensitivity and beta-cell function in adult male subjects
Paper-97
Nway Htike Maw, Cho Lwin Aung, Mya Mya Thwin and Ohnmar

11:25-11:45 Red cell deformability and serum magnesium level in non-pregnant and normal pregnant women
Paper-98
Ei Ei Pan Nu Yi, Ohnmar Myint Thein, Myat Thandar and Ohnmar

11:45:12:05 Cardiopulmonary fitness of adolescent students from Institute of Sports and Physical Education, Yangon
Paper-99
Khin Mi Mi Lay, Han Win, Pyae Phyo Kyaw, Nway Htike Maw, Sandar Win, Khin San Lwin, Htet Htet Lwin, Yi Yi Mon and Kyaw Zin Thant

BEST PAPERS AND BEST POSTER AWARDING CEREMONY

Department of Medical Research
 Advanced Molecular Research Centre
 No. 5, Ziwaka Road, Dagon Township, Yangon

3:00hr Speech by:
 H.E. Dr. Than Aung
 Union Minister
 Ministry of Health

3:10hr Speech by:
 Chairman
 Best Paper and Poster Selection Sub-committee

3:20hr Awarding:

- ◆ Best Paper for Basic Research
- ◆ Best Paper for Applied Research
- ◆ Best Paper for Health Systems Research
- ◆ Best Poster
- ◆ Young Researcher Award for Basic Research
- ◆ Young Researcher Award for Applied Research
- ◆ Young Researcher Award for Health Systems Research

List of the Posters Displayed

- Poster - 1 Dietary pattern and nutritional status of HIV infected patients
Moh Moh Hlaing, Aung San, Mya Ohnmar, Myat Myat Thu, Wah Wah Win, Su Su Hlaing, Yin Yin Aye and Hla Phyo Linn
- Poster - 2 The relationship between chronic arsenic exposure and DNA methylation levels of LINE-1 through a cross sectional study in Bangladesh
Takehiro Suzuki, Khaled Hossain, Seiichiro Himeno and Keiko Nohara
- Poster - 3 Coverage of ART clinics for people living with HIV from selected 25 clinics in 12 States and Regions, Myanmar
Poe Poe Aung, Htun Nyunt Oo, Claire Ryan, Zaw Win Thein, Swai Mon Oo, Aye Kyawt Paing, Yin Thet Nu Oo, San Shwe and Ben Coghlan
- Poster - 4 Vector bionomics and potential vectors of malaria in Kamamaung Township, Phapun District, Kayin State
Maung Maung Mya, Myat Phone Kyaw, Sein Thaung, Tin Tin Aung and Yan Naung Maung Maung
- Poster - 5 Listening to voices of community: Identifying needs and gaps of community after the floods in 2015, Myanmar
Saw Saw, Wai Wai Han, Soe Moe Myat, Kyi Kyi Mar, Ye Ye Win, Thandar Min and Khin Thet Wai
- Poster - 6 Determination of T-2 Mycotoxin in cereal-based junk foods sold from some food stalls in Yangon Region
Thet Thet Mar, Thaung Hla, Tin Ko Ko Oo, Lwin Zar Maw, Nwe Ni Aung, Zin Mi Thein and Wai Lwin Oo
- Poster - 7 Novel approach to olfactory-based spatial learning ability for preweaning mice and the effects of early exposure to diesel exhaust origin secondary organic aerosol
Tin Tin Win Shwe, Chaw Kyi Tha Thu, Yadanar Moe, Yuji Fujitani, Shinji Tsukahara, Fumihiko Maekawa and Seishiro Hirano
- Poster - 8 Detection of gene mutations conferring resistance to pyrazinamide and second line anti-TB drugs in *Mycobacterium tuberculosis* strains by DNA sequencing in Myanmar: Method establishment and preliminary findings
Wah Wah Aung, Phyu Win Ei, Nyi Nyi Win, Wint Wint Nyunt, Thyn Lei Swe, Ommar Aung, Mi Mi Htwe, Su Mon Win and Si Thu Aung
- Poster - 9 Effect of different lighting conditions on breeding performance of ddy strain mouse (*Mus musculus*) husbandry in DMR
Aye Win Oo, Mu Mu Win, Than Myat Htay, Hnin Ohnmar Oo, Thandar Win, Khin Hnin Yi, Kyi Kyi Win Zaw, Win Aung and Win Maw Tun
- Poster - 10 Determination of serum aflatoxin B1 (Biomarker) adducts in chronic liver disease patients attending in liver unit, 500 bedded Specialist Hospital, Yangon
Myat Mon Oo, Moh Moh Htun, Zayar Chit, Hnin Nu Htwe, Mya Thandar Win, Win Maw Tun, Mya Ohnmar, Hlaing Myat Thu and Win Naing
- Poster - 11 Knowledge, Attitude and Practice (KAP) of dengue fever and vector population parameters in Hlaing Thar Yar Township, Yangon Region
Yan Naung Maung Maung, Sein Thaung, Maung Maung Mya, Khin Myo Aye, Sai Zaw Min Oo and Phyo Aung Nai

- Poster- 12 Care for the pregnant women: Services available and readiness at public and private health facilities in Myanmar
Le Le Win, Su Latt Tun Myint, Thae Maung Maung, Theingi Myint, Thet Thet Mu and Yin Thet Nu Oo
- Poster- 13 Characteristics of HCV and HIV co-infected patients in Southern Myanmar
Elkin Bermudez, Natalia Tamayo, Kyi Pyar Soe, Theint Thida Soe, Kyaw Tint Tun, and Marcelo Fernandez
- Poster-14 Outcomes of intrapartum referred women in Thingangyun Sanpya General Hospital
Aye Aye Thwe, Myo Myo Mon, Khin Htar Yi, Kyi Kyi Nyunt and Nwe Mar Tun
- Poster-15 Long-term arsenite exposure induces premature senescence via DNA damage accumulation in mouse B lymphoma cell line A20 cells
Kazuyuki Okamura and Keiko Nohara
- Poster-16 Assessment of nutritional status among months 24 to 59 months old children by measuring mid upper arm circumference in Htan-ta-pin Township, Yangon Region
Sandar Tun, Moh Moh Hlaing, Mya Ohnmar, Myat Myat Thu, Thidar Khine, Wah Wah Win, Yin Yin Aye and Ko Ko Zaw
- Poster-17 Nationwide survey of chemical compounds in indoor and outdoor air in Japan using diffusive sampling devices
Naoki Kunugita, Shigehisa Uchiyama and Yohei Inaba
- Poster-18 Cutaneous TB: Different clinical types and comparing the values of its diagnostic tests
Khine Khine Zaw, Aung Gyi , Wah Wah Aung , Phyu Win Ei , Swe Zin Win and Khin Moe Myint
- Poster-19 Anti-snake (Russell's Viper) venom activity of aqueous and 95% ethanolic root extracts of *Vitex negundo* Linn. (ကြောင်ပန်းကြီး)
Mu Mu Sein Myint, Khine Khine Lwin, Khin Tar Yar Myint, Kyi May Htwe, Win Win Maw, Myint Myint Khine, San San Myint, Mi Aye Aye Mon and Kyaw Zin Thant
- Poster-20 Nutritive values of snack foods commonly consumed by school children
Mya Ohnmar, Moh Moh Hlaing, Sandar Tun, Thidar Khine, Lei Lei Myint, Khin Hnin Win Phyu, Nyein Nyein Win and Theingi Thwin
- Poster-21 Histological identification of *Helicobacter pylori* in colorectal cancer by immunohistochemistry
Aye Aye Win, Yi Yi Kyaw, Yin Min Htun, Hnin Nu Htwe, Kay Thwe, Moh Moh Htun and Myat Mon
- Poster-22 Studies on the action of Tamarind (*Tamarindus indica*) seed extract against some biological properties of King Cobra (*Ophiophagus hannah*) venom
Khin Maung Maung, Pakeer Oothumann and Imad Matloub Al Ani.
- Poster-23 Molecular detection of dengue virus serotypes affecting adult population admitted to the medical wards of Yangon General Hospital during 2015 dengue outbreak
Theingi Win Myat, Hlaing Myat Thu, Hlaing Mya Win, Khin Saw Than, Zaw Than Tun, Khin Mar Aye, Nila Zaw, Mo Mo Win and Kyaw Zin Thant
- Poster-24 Awareness of breast health and breast cancer screening among a group of women in Mandalay
San Shwe, Khin May Oo, Le Le Win, Ye Htut, Kyi Kyi Nyunt, Aung Myo Min, Htain Win and Myo Khin

- Poster-25 A female-biased sex difference in green fluorescent protein-expressing cells under the control of the estrogen receptor- α promoter in the hypothalamus of mice
Chaw Kyi Tha Thu, Kota Okoshi, Hiroto Ito, Ken ichi Matsuda, Mitsuhiro Kawata and Shinji Tsukahara
- Poster-26 Detection of monoclonal gammopathies in chronic low back pain patients at Yangon Orthopaedic Hospital
San San Htwe, Thit Lwin, Htun Lwin Nyein, Win Pa Pa Naing, Aye Myint Oo, Ni Ni Win, Moe Thuzar Min, Myat Thiri and Khin Saw Aye
- Poster-27 Assessment of the impact of cancer on household economic wellbeing and patient survival in Myanmar
Myo Khin, Soe Aung, Yin Yin Tun, Swe Swe Win, Khin May Oo, San Shwe, Le Le Win, Htun Lwin Nyein, Win Pa Pa Naing, Shu Mon, Tin Moe Win and Soe Oo Maung
- Poster-28 Detection of *Salmonella* species in mixed chili sauces
Thin Thin Wah, Kyi Kyi Nyein Win, Lai Lai San, Tin Tin Htwe, May Than Htay, Nilar, Myo Myo Kyaw, Kyaw Kyaw San and Theingi Win Myat
- Poster-29 Prognostic value of p53 and apoptotic index on gastric cancer tissue
Yin Min Htun, Kyaw Soe, Myat Mon Oo, Hnin Nu Htwe, Kay Thwe, Moh Moh Hlaing, Soe Sandar and Moh Moh Htun
- Poster-30 Detection of artemisinin-resistant mutation in Myanmar using next generation sequencing
Myo Thant, Kyaw Zayar Thin, Ye Myat Kyaw, Thet Maung Oo, Khine Zaw Oo, Khin Phyu Pyar, Khin Maung Nyunt and Tin Maung Hlaing
- Poster-31 Arginine vasopressin Vb receptor is involved in the regulation of cell growth and neurite outgrowth in PC12 cells
Kyaw Htet Aung, Kazuaki Nakamura and Akito Tanoue
- Poster-32 Family planning service availability and readiness of public and private health facilities in Myanmar
Thae Maung Maung, Le Le Win, Theingi Myint, Su Latt Tun Myint, Thet Thet Mu, Yin Thet Nu Oo and Aung Ye Naung Win
- Poster-33 Atmospheric concentrations of particulate matter 2.5 in Hanoi, Vietnam
Mayuko Yagishita, Fumikazu Ikemori, Kimiyo Kumagai, Makoto Kinoshita, Nguyen Quang Trung, Thao Thanh Nguyen, Kiwao Kadokami and Daisuke Nakajima
- Poster-34 Distribution and speciation of arsenic in mice intravenously injected with S-dimethylarsino-glutathione.
Yayoi Kobayashi, Ayaka Kato, Osamu Udagawa and Seishiro Hirano
- Poster-35 Serum leptin level in normal weight, overweight and obese children
Yin Yin Win, Theingi Thwin, Moh Moh Hlaing, Kay Khine Soe, Khin Thida Wai, Thandar Myint, Sandar Aung and Naw Myat Su Mon
- Poster-36 Knowledge of osteoporosis among female teachers from two education colleges in Yangon Region
Than Than Lwin, Than Than Aye, Su Wynn Mon, Moh Moh Hlaing, Aung Aung Maw, Dam Lian Pau, Kaung Ba Hlwar and Han Win

- Poster-37 Knowledge on reproductive health and attitude towards reproductive health hot line services among factory workers in South Dagon Industrial Township, Yangon Region
Khin Sandar Oo, Le Le Win, Yin Thet Nu Oo, Kyaw Lwin Show, Soe Moe Myat, Aye Win Khine, Thandar Min, Cho Cho Myint and Saw Ba Than
- Poster-38 Are they disclosed? : Situation of HIV status disclosure among adolescents
Kyaw Min Htut, Myo Myo Mon, Lwin Lwin Ni, Aung Soe Min and Ni Ni Htay Aung
- Poster-39 A comparative study of morphological sex differences in the brain between *Suncus murinus* and mice
Yadanar Moe, Tomoko Tanaka, Masahiro Morishita, Chihiro Nakahara, Ichiro Sakata, Takafumi Sakai and Shinji Tsukahara
- Poster-40 Association between bacterial vaginosis and preterm labor
May Zin Soe, Khin Htar Yi and Cho Cho Khin
- Poster-41 Tattooing: Health awareness and practices of young people in Mandalay Region
Kyaw Lwin Show, Kyi Maw Than, Yin Thet Nu Oo, Khin Sandar Oo, Le Le Win, Chomar Kaung Myint, Cho Cho Myint and Aye Win Khine
- Poster-42 Detection of *Listeria monocytogenes* contamination in milk and milk products
Lai Lai San, ThinThin Wah, Kyi Kyi Nyein Win, Tin Tin Htwe, May Than Htay, Nilar, Myo Myo Kyaw, Kyaw Kyaw San and Theingi Win Myat
- Poster-43 Arsenic contamination of ground water and development of arsenic iron removal method
Khin Phyu Phyu, Mya Mar Lar, Tin Nwe Htwe, Tin Tin Han, Thet Htet Aung, Tin Tin Htike, Aye Thidar Htun, Thandar Wint Wint Aung and Kyaw Zin Thant
- Poster-44 Early life exposure to intermediate-frequency magnetic fields alters brain biomarkers in young adult mice
Naoki Kunugita, Tin Tin Win Shwe, Shin Ohtani and Akira Ushiyama
- Poster-45 Predisposing factors, mode of deliveries and outcomes of newborn babies with umbilical cord around the neck in North Okkalapa General and Teaching Hospital
Zin Mar Oo, Khin Htar Yi and Aye Aye Win
- Poster-46 Red cell deformability and serum magnesium level in preeclampsia
Aye Thet Swe, Thae Nu Htwe, Myat Thandar and Ohnmar
- Poster-47 Development of luciferase immunoprecipitation system (LIPS) for serodiagnosis of toxoplasmosis and other parasitic diseases
Khin Myo Aye, Eiji Nagayasu and Haruhiko Maruyama
- Poster-48 Ultrasensitive detection of asymptomatic malaria using dried blood spots
Kayvan Zainabadi, Matthew Adams, Kay Thwe Han, Myaing Myaing Nyunt and Christopher V. Plowe
- Poster-49 An ultrasensitive reverse transcription polymerase chain reaction assay to detect asymptomatic low-density *Plasmodium falciparum* and *P. vivax* infections in small volume blood samples
Matthew Adams, Khine Zaw Oo, Tin Maung Hlaing, Zay Yar Han, Kay Thwe Han, Si Thura, Fang Huang, Myaing Myaing Nyunt and Christopher V Plowe

**44th MYANMAR HEALTH RESEARCH CONGRESS
PROGRAMME FOR SYMPOSIA AND TALKS**
Department of Medical Research
No. 5, Ziwaka Road, Dagon Township, Yangon, Myanmar

Day 1

5.1.2016 (Tuesday) 13:30-16:30hr

- Auditorium (2) Advanced Molecular Research Centre (AMRC)

Hepatitis B and C: Current Situation and the Way Forward

**Chairpersons: Dr. Khin Pyone Kyi,
Director General (Retired), Department of Medical Research**

**Professor Margaret Hellard
Head, Centre for Population Health, Burnet Institute
Head, Hepatitis Services in the Infectious Diseases Unit
Alfred Hospital, Melbourne, Australia**

- ❖ Hepatitis C elimination – strategies to enhance hepatitis C care and treatment in community settings and vulnerable populations
by Professor Margaret Hellard,
Head, Centre for Population Health, Burnet Institute
Head, Hepatitis Services in the Infectious Diseases Unit
Alfred Hospital, Melbourne, Australia
- ❖ Real-life treatment with sofosbuvir based therapy in Myanmar for Hepatitis C and treatment options in Hepatitis B Myanmar and difficulties facing
by Dr. Than Sitt, Consultant Hepatologist, OEC GI and Liver Clinic
Former Professor of Medicine, Liver Unit, Mandalay General Hospital
Professor/ Head (Rtd.), Hepatology, Yangon General Hospital
- ❖ Sero-prevalence and genotype distribution of HBV and HCV in Myanmar
by Dr. Aye Aye Lwin, Deputy Director/ Head, Immunology Research Division,
Department of Medical Research
- ❖ Hepatitis Control in Myanmar
by Dr. Toe Thiri Aung, Deputy Director, Central Epidemiology Unit,
Department of Public Health

Day 2

6.1.2016 (Wednesday) 09:30-12:30hr - Auditorium (2), AMRC

Environmental Pollutants and Health Risk (Our Environment, Our Health)

**Chairpersons: Professor Nay Soe Maung
Rector, University of Public Health**

**Dr. Keiko Nohara
Professor/ Director, National Institute for Environmental Studies,
Japan**

- ❖ Organophosphorus Flame Retardants (PFRs) in Human Breast Milk from Several Asian Countries
by Dr. Tomohiko Isobe, Senior Researcher, NIES, Japan

- ❖ Monitoring the Environmental Water Samples from South East Asia Countries: Vietnam River and Inle Lake, Myanmar using *in vitro* Bioassay
by Dr. Daisuke Nakajima, Senior Researcher, NIES, Japan
- ❖ Developmental Neurotoxicity of Arsenic: Impact of Early Life Exposure on Brain Structure and Cognitive Function
by Dr. Kyaw Htet Aung, Researcher, National Center for Child Health and Development, Japan
- ❖ Reassessment of Presence of Arsenic in Deep Tube of Wells at Kyaung-Kone Township
by Dr. Than Htut, Honorary Professor, Department of OH/EH, UPH
- ❖ Detection of Mercury in Water Source at Artesian Gold Mine
by Dr. Kyi Lwin Oo, Visiting Lecturer, Department of OH/EHM, UPH

6.1.2016 (Wednesday) 13:30-16:30hr - Auditorium (2), AMRC

Going Universal in Myanmar

Chairpersons: Dr. Phone Myint

Former Director General, Department of Health Planning

Dr. Khin Maung Lwin

Former Director, Department of Health Planning

- ❖ Lessons learned: Covering People & Improving Health Care Provision
by Hnin Hnin Pyne, Senior Health Specialist, WBG
- ❖ Lessons learned: Managing Funds
by Toomas Palu, Health Practice East Asia, Manager, WBG
- ❖ Myanmar’s Growing Knowledge Base—Opportunities for UHC
by Thant Sin Htoo, Director, Ministry of Health
- ❖ Questions Moderated by:
Nang Mo Kham, MD, Health Specialist, WBG

Day 3

7.1.2016 (Thursday) 9:30-12:30hr - Auditorium (2), AMRC

Assessment and Possible Implications in Multiple Infections and their Related Cancers in Myanmar

Chairpersons: Dr. Kyaw Zin Thant

Director General, Department of Medical Research

Professor Tsuyomu Ikenoue

President, University of Miyazaki, JAPAN

- ❖ Current Status on Maternal Mortality in Japan
by Prof. Tsuyomu Ikenoue, President, University of Miyazaki, JAPAN
- ❖ Review on Infection and Oral cancer
by Prof. Dr. Swe Swe Win, Retired Professor & Head, Department of Oral Medicine, University of Dental medicine, Yangon
Vice President, Myanmar Dental Association

- ❖ Oral cancer treatment, mainly surgical approaches and oral and maxillofacial reconstruction
by Prof. Yoshihiro Yamashita, Division of Oral and Maxillofacial Surgery, Department of Medicine of Sensory and Motor Organs, Faculty of Medicine, University of Miyazaki, JAPAN
- ❖ Management of soft tissue sarcoma in Yangon General Hospital, Myanmar
by Prof. Dr. Myo Myint Maw, Professor and Head, Department of Medical Oncology, Yangon General Hospital
- ❖ Collaborative studies on parasitic diseases between research institutions in Myanmar and University of Miyazaki
by Assist. Prof. Eiji Nagayasu, Division of Parasitology, Department of Infectious Diseases, Faculty of Medicine, University of Miyazaki, JAPAN
- ❖ Role of Immunohistochemistry (IHC) in research on common cancers at Pathology Research Division, DMR
by Dr. Kyaw Soe, Deputy Director/Head, Pathology Research Division, DMR

7.1.2016 (Thursday) 13:30-16:30hr - Auditorium (2), AMRC

National Nutrition Agenda – Progressing Further into Action

Chairpersons: Dr. Soe Lwin Nyein
Director General, Department of Public Health

Professor Ne Win
President, Myanmar Academy of Medical Science

- ❖ Building better partnerships with all stakeholders: Multi-stakeholder platform
by Dr. Aye Thwin, Consultant, Nutrition Development Initiative
- ❖ New insights into the interrelationships among nutrition, gut microbiota, health and diseases
by Dr. Jacques G Bindles, Scientific Director, Danone Nutricia, Early Life Nutrition
- ❖ Applied nutrition in clinical practice
by Professor Chit Soe, Professor/Head, Department of Medicine, University of Medicine 2, Yangon
- ❖ Research agenda for improvement of nutrition
by Dr. Theingi Thwin, Director (Research), Department of Medical Research
- ❖ Rice fortification for addressing micronutrient deficiencies in Myanmar
by Dr. Myo Myint Aung, Program Director, Program for Appropriate Technology in Health-PATH

7.1.2016 (Thursday) 9:30-12:30hr - Auditorium(3), Central Biomedical Library

Emerging Antimicrobial Resistance and Infection Control

Chairperson: Dr. Kyi Kyi Thinn
Emeritus Professor, University of Medicine 1, Yangon

- ❖ Antimicrobial Resistance in Gram-Positive and Gram-Negative Organisms: their Mechanisms and Clinical Impacts
 by Prof. Yoshikazu Ishii, Professor, Department of Microbiology and Infectious Diseases, Toho University School of Medicine, Tokyo, Japan
- ❖ Highlights on Drug Resistant Bacteria Research in Myanmar
 by Dr. Mya Mya Aye, Deputy Director/ Head, Bacteriology Research Division, Department of Medical Research
- ❖ Nosocomial Infection
 by Dr. Khwar Nyo Zin, Senior Consultant Microbiologist, Clinical Pathology Department, Yangon General Hospital
- ❖ Carbapenem-Resistant Bacteriaceae in Myanmar: An Importance of Surveillance and Infection Control
 by Dr. Hideharu Hagiya, Assistant Professor, Division of Infection Control and Prevention, Osaka University Hospital, Japan

7.1.2016 (Thursday) 13:30-16:30hr - Auditorium(3), Central Biomedical Library

Scientific Talk on "Pushing the envelope in Urology: Kidney transplantation and robotic surgery"

Chairperson: Professor Kyaw Swa Hlaing
Head, Department of Surgical Urology,
Yangon General Hospital

- ❖ by Dr. Motoo ARAKI, Associate professor, Department of Urology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Japan

Day 4

8.1.2016 (Friday) 09:30-12:30hr - Auditorium(2), AMRC

Cancer disease burden in Myanmar

Chairperson: Dr. Soe Myint
Public Health Technical Advisor
NCD Control Project,
University of Public Health-HelpAge International (Myanmar)

- ❖ Burden of Cancer in Myanmar: Findings from the Global Burden of Disease Study
 by Professor Alan Lopez, Melbourne Laureate Professor, The University of Melbourne
- ❖ Burden of Cancer in Myanmar as Evidenced by Hospital-based Cancer Registry
 by Professor Soe Aung, President, Oncology Society, Myanmar Medical Association

- ❖ Prospective Family Study Cohort (ProF-SC): How to establish?
by Dr. Aung Ko Win, Senior Research Fellow, The University of Melbourne
- ❖ Improving Cause of Death Statistics in Myanmar: The Bloomberg Data for Health Initiative
by Professor Alan Lopez, Melbourne Laureate Professor, The University of Melbourne

8.1.2016 (Friday) 13:30-16:30hr – Auditorium(2), AMRC

Myanmar-Korea Joint Symposium on Hepatitis, Malaria and Tuberculosis (2016)

FIRST SESSION:

Chairpersons: Dr. Kyaw Zin Thant

Director General

Department of Medical Research

Dr. Sun Dae Song

Chairman of the Board

International Tuberculosis Research Center, Korea

- ❖ Genetic variation of Myanmar HBV full genome analysis and clinical significance
by Professor Jae Hun Cheong, Department of Molecular Biology
Pusan National University
- ❖ Occult hepatitis B infection and hepatocellular carcinoma
by Dr. Yi Yi Kyaw, Deputy Director/Head,
Molecular Technology Applications Division,
Advanced Molecular Research Centre, Department of Medical Research
- ❖ Enhanced microbiological detection of *Mycobacterium tuberculosis* by liquid culture system
by Dr. Jong Seok Lee, Senior Scientist and Section Head, Microbiology Section,
International Tuberculosis Research Center
- ❖ Advanced technologies for diagnosis of MDR/XDRTB: Laboratory perspective
by Dr. Wah Wah Aung, Director (Research), Advanced Molecular Research
Centre, Department of Medical Research

SECOND SESSION:

Chairpersons: Dr. Myat Phone Kyaw

Deputy Director General (Rtd.)

Department of Medical Research

Professor Chulhun Chang

Department of Laboratory Medicine

Pusan National University,

Yongsan Hospital, Korea

- ❖ Proteomics in malaria research
by Professor Eun Teak Han, Department of Environmental and tropical
Medicine, School of Medicine, Kangwon National University

- ❖ Molecular epidemiology of malaria in Myanmar
by Dr. Kay Thwe Han, Deputy Director/ Head, Parasitology Research Division,
Department of Medical Research

8.1.2016 (Thursday) 9:30-12:30hr - Auditorium(3), Central Biomedical Library

Symposium on Medical Education

**Chairperson: Professor Zaw Wai Soe
Rector
University of Medicine 1, Yangon**

- ❖ Medical Education in Japan and Okayama University, an Overview
by Professor Aiji OHTSUKA, Department of Human Morphology, Okayama University
- ❖ Medical School Programs for Developing Problem-solving Skills and Self-Learning Abilities
by Professor Kohji TAKEI, Department of Biochemistry, Okayama University
- ❖ Why Simulation Education
by Yasuhiro MANDAI, Deputy Director, Center for the Development of Medical and Health Care Education, Okayama University
- ❖ Perspectives of Health Professional Education in Myanmar
by Professor Mya Thandar, Rector, Nursing University, Yangon
- ❖ Today's Teachers Training Tomorrow's Doctors
by Dr. Tin Tun, Director, Department of Health Professional Resource Development and Management, Ministry Health

8.1.2016 (Friday) 13:30-16:30hr – SRC Lecture Theatre

**Scientific talk on Malaria and Forensic Medicine
Scientific talk on “Malaria”(13:30 to 14:30 pm)**

**Chairperson: Dr. Myat Phone Kyaw
Deputy Director General (Retired)
Department of Medical Research**

- ❖ Survival mechanisms of malaria parasite in erythrocyte
by Professor Kohji TAKEI, Department of Biochemistry,
Okatama University Graduate School of Medicine,
Dentistry and Pharmaceutical Sciences

Scientific talk on Forensic Medicine (15:00 to 16:00 pm)

**Chairperson: Professor Myo Thike Oo
Head, Forensic Medicine Department,
University of Medicine 1, Yangon**

- ❖ Myoglobin and Forensic Medicine
by Professor Satoru MIYAISHI, Department of Legal Medicine,
Okatama University Graduate School of Medicine,
Dentistry and Pharmaceutical Sciences

Day 5**9.1.2016 (Saturday) 09:30-12:30hr - Auditorium(2), AMRC****Enforcement/ Control activity of Food, Drug, Medical Device and Cosmetics**

Chairperson: Dr. Than Htut
Director General
Department of Food and Drug Administration

- ❖ Strengthening of Market Surveillance for Food Safety
by Dr. Tun Zaw, Director, Food, FDA
- ❖ Combating the Counterfeit Medicine and Illegal Medicine to Strengthen
the Enforcement Network Activities
by Dr. Theingi Zin,
Director, Drug, FDA
- ❖ Drug safety
by Dr. Andri A Tsingi, Regional PV Excellence Leader (APAC),
Roche Pharmaceuticals
- ❖ Regulation of Cosmetics and Medical Devices in Myanmar
by Dr. Thazin Yee Hlaing,
Director, Medical Device/ Cosmetics, FDA
- ❖ Food Safety from Trade Facilitation Perspective
by Dr. Michael Jensen,
Consultant, International Finance Corporation (IFC)

9.1.2016 (Saturday) 09:30-12:30hr - SRC Lecture Theatre**Scientific talk on Dengue immunology and vaccine update**

Chairperson: Dr. Soe Thein
Secretary, Myanmar Academy of Medical Science
Deputy Director General (Rtd.)
Department of Medical Research

- ❖ Current status of dengue vaccines
by Dr. Louis Macareo,
Chief, Division of Virology, AFRIMS, Bangkok, Thailand
- ❖ Immune-mediated protection and pathology in dengue
by Dr. Anon Srikiatkachorn,
Department of Medicine, University of Massachusetts Medical School,
Armed Forces Research Institute Medical Sciences, Bangkok, Thailand

