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## **Yongsung Lee**

**Graduate School of Health Science Business Convergence  
Chungbuk National University College of Medicine  
Korea**

### **Biography**

Yongsung Lee, MD, PhD is a master professor of Graduate School of Health Science Business Convergence which inculcates scientists with business mind, and has been leading the MedRIC (Medical Research Information Center), focusing on research and development in medical informatics, medical data visualization, telematics, virtual reality-based medical training, and health communication and promotion policies and programs. Dr. Lee is also a professor of College of Medicine, Chungbuk National University. He is currently serving as a board member of the Korean Society of Medical Informatics. He was a visiting scholar at Stanford University Medical Media and Information Technology, and was a member of Committee on Infrastructure Technologies, National Science and Technology Council, the Nation's highest decision making body on science and technology policies under the President of Republic of Korea.



## **Yeo Pyo Yun**

**Chungbuk National University, President  
Korea**



## **Myeong-Chan Cho**

**Chungbuk National University Hospital, President and CEO  
Korea**



## **Byoung Joo Park**

**Korea Public Health Association, Director  
Korea**



**Byoung Gwan Sohn**  
Cheong Ju Medical Center, Director  
Korea



**Dong-Hyun Kim**  
Graduate School of Health Science, Dean  
Hallym University College of Medicine  
Korea

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#### Biography

Dong-Hyun Kim, MD, PhD is dean of Graduate School of Health Science and a professor and chairperson of department of social medicine, Hallym University College of Medicine. Dr. Kim directs the Hallym Research Institute of Clinical Epidemiology(HRICE), which has conducted clinical epidemiologic research focusing patients and population-based cohort with biobank over several years. He is also serving as an executive member of Korean Society of Preventive Medicine, Korean Society of Epidemiology, and Korea Public Health Association. His main research interests are 1) colorectal cancer epidemiologic research trying to find out which factors, gene or environment, are responsible for the current sharp increase of this deadly cancer, 2) population-based aging research on which factors affect the quality of life of the elderly in Korea, and 3) suicide prevention research, which tries to develop the effective public health intervention program for the elderly residing in the community.

#### Abstract

##### ***Public Health Crisis Facts and Challenges: MERS Epidemic in South Korea***

Healthcare system in Korea was found to be very vulnerable to public health emergency preparedness and response as demonstrated in the recent outbreak of Middle East Respiratory Syndrome Coronavirus(MERS-CoV). We need to redefine the function of and improve the capability of local district public hospital and local health center to cope with potential threats by newly emerging infectious disease in the nearer future. While central government may be responsible for early detection of newly emerging infectious disease transmitted from outside of the country, local government and its district-level public healthcare agencies need to primarily control over spread of the disease among the local residents. Governance setting for rapid response required in public health crisis situation appears to be possible based on strong local public health infrastructure for health promotion and disease prevention at si-gun-gu district level. Proper and sustainable investment is also needed for local public hospital with high standard facilities and skilled healthcare man-power since there seems little economic incentives to maintain such facilities in private hospitals. In conclusion, it would be urgent task to improve prevention activities for infectious disease of local health centers and clinical activities of local public hospital. Especially, role and competencies of public health physicians working at the public health center need to be specified as an essential component of public health infrastructure.



**Joey S.W. Kwong**  
Sichuan University  
China

#### Biography

Dr. Joey Kwong is Associate Professor, Chinese Evidence-Based Medicine Centre and Executive Associate Director, Chinese Cochrane Center, based at the West China Hospital, Sichuan University, Chengdu, China. She is a registered pharmacist in the U.K. and received her Master of Pharmacy degree and PhD in Medicinal Chemistry from the University of Bath, U.K. Her previous roles include Managing Editor for Cochrane Heart Group, Cochrane Collaboration; Overseas Activities Coordinator for Hong Kong Branch of the Chinese Cochrane Centre; and Research Assistant Professor, Department of Medicine and Therapeutics, The Chinese University of Hong Kong. Her main research interest is translational evidence-based medical research and development of clinical practice guidelines and health policies. She has published over 40 articles in peer-reviewed journals and presented over 30 lectures on evidence-based medicine at international conferences and training workshops.

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#### Abstract

##### ***Cochrane, Evidence-Based Medicine, and the Evolution of Health Care Practice***

Advances in technology have led to rapid transformation of health care practice in recent years with innovations such as health-related smartphone “apps”, remote monitoring of patients and access to an abundant source of medical information via different media platforms. Cochrane, formerly called Cochrane Collaboration, has undergone some innovations itself with a brand-new image and interface, yet its mission remains the same: to promote evidence-based medicine and informed decision-making using high-quality, up-to-date and reliable evidence. Since its set-up in 1993, this global network of health care professionals, researchers, and patient advocates has taken the meaning of “accessible medical information to a whole new level. This presentation will introduce the audience to the history and vision of Cochrane and latest Cochrane evidence in the use of network and application technologies in health care.



**Hyeong Sik Ahn**  
Korea University College of Medicine  
Korea

#### Biography

Dr. Hyeong Sik Ahn is a health services researcher at the Korea University College of Medicine, and School of Public Health. He graduated with a degree in medicine from the Seoul National University in 1985. He completed his post graduate training and was board certified in Preventive Medicine in 1990. He then received a PhD in preventive medicine from Seoul National University in 1995. He had worked in Korea University as a professor and chairman of the Department of Preventive Medicine since 1996. He has been working on evidence based medicine and is a leader on a variety projects for clinical practice guidelines and systematic review. He totally published 50 papers on international and Korean refereed journals, which have been cited over 400 times, and is the author of six chapters of five books. His research has been supported by grants from the following sources: Ministry of Health and Welfare, Korean government, Academic Institute in Korea, and National Insurance Cooperation. The total amount fund during last ten years reaches 4 million USD. He also worked on development of academic organization on his research field including Korean Branch of Cochrane Collaboration, and has appointed as director of Institute for Evidence based Medicine. He is a former dean of School of Public Health, Korea University from 2013-2015 July

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## Abstract

### ***Practicing Evidence based Medicine in Local Context***

The usefulness of the evidence-based medicine depends largely on whether a relevant evidence exists. It also depends on clear and relevant clinical question was asked and the extent to which methodological rigour has been used to minimize error and bias.

In reality, RCT and SR are not available for all clinical problems and cannot provide answers to all clinical questions; most research is generated in developed countries. the local relevance of health research for developing Asian countries is very limited

There is also a systematic bias in medical journals against diseases and health needs that dominate the least developed regions. Furthermore, in developing countries, much knowledge is unpublished and consequently cannot be included in systematic reviews. This geographical and cultural bias should be solved in local context.



**Jae Gyu Kim**

Joongang University Hospital  
Korea



**Sung Ha Kang**

Jeju National University Hospital, Director  
Korea



**HyungChul Rah**

Graduate School of Health Science Business Convergence, Chungbuk National University  
Korea

## Biography

Dr. HyungChul Rah obtained his DVM degree at KonKuk University in Korea, and Master of Preventive Veterinary Medicine (MPVM) and PhD degree in Comparative Pathology at School of Veterinary Medicine, University of California, Davis, USA. He was trained as post-doctoral researcher and research associate at School of Medicine, University of California, Davis, USA and CHA University, Korea. His research interests are development of genetic markers for diseases including cancers and inherited disorders and its commercialization. Since 2014, he joined Graduate School of Health Science Business Convergence (PSM program) at Chungbuk National University as a faculty member





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## Woi-Hyun Hong

Medical Research Information Center, Graduate School of Health Science  
Business Convergence, Chungbuk National University  
Korea

### Biography

Dr. Woi-Hyun Hong is a professor at Medical Research Information Center and Graduate School of Health Science Business Convergence, Chungbuk National University in Korea. She received his Ph.D. in Community Health Informatics from University of Wisconsin-Milwaukee. Prior to this, she studied at Trinity Western University in Canada in Adult Education

Her areas of research interests are Evidence-based Healthcare with Information Technology, Health Promotion with Chronic Diseases, Translational Research with Tailored Interventions, and Healthcare Informatics with Electronic Healthcare Record.

### Abstract

The Korean government provides biennial mammograms for Korean women over 40 years of age through the National Cancer Screening Program (NCSP). However, only 49.5% of women undertakes in accordance with these guidelines. There are mythical health beliefs and different community participations related to breast cancer screening for women in Korea.

This study was to identify mythical health beliefs related to breast cancer and promote to take a breast cancer screening test free provided by the Korean NCSP. The researchers conducted a multicomponent community intervention trail to correct breast cancer myths and promote a breast cancer screening test for early detection for Korean women.



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## Eungdo Kim

Graduate School of Health Science Business Convergence, Chungbuk National  
University  
Korea

### Biography

Dr. Eungdo Kim is a PSM Professor at The Graduate School of Health Science Business Convergence at Chungbuk National University in S. Korea. He received his Ph.D. in Management of Technology from Seoul National University. Prior to this, He received his Bachelor's degree in Information Technology from York University, Canada. His research interests are Technology Valuation and Commercialization, Technology Innovation, and Management of Technology in Biomedical industry.

Presentation Topic: Analysis of technology competitiveness on medical 3D printing industry in South Korea



## Nobuyuki Shimono

Kyushu University Hospital  
Japan

### Biography

Nobuyuki Shimono, M.D. Ph.D. is a physician, having graduated from Kyushu University, Fukuoka, Japan. He majors in infectious diseases especially in nosocomial infection and bacterial infection. He is the chief of the Center for the study of global infection at Kyushu University Hospital, which was established in November 2011. He is engaged in infection control in the hospital. The center aims at making networks among hospitals in Fukuoka

city and holds periodical conferences. It also has networks between Asian countries.

#### Abstract

##### ***Preparation for tackling with global infection outbreak in Japan***

In Japan, we classified contagious diseases in 5 categories. Ebola virus disease and other hemorrhagic fever diseases are classified as category 1 infectious disease. MERS, avian influenza and tuberculosis are classified as category 2 disease. For treating these categorized diseases, we have isolated wards in specialized hospitals. The staffs usually train on how to manage the patients and how to use protective equipment properly.

Japan is located in warm-temperature regions, not in tropical regions. So, Japanese physicians are not familiar with tropical diseases, which need to be differentiated from the important infectious diseases with global attention, such as Ebola, MERS, Dengue and so on.

Last year, we experienced Dengue outbreak in Tokyo. This year, Ebola suspected patient was admitted in specialized hospital in Fukuoka, finally diagnosed as malaria. It is very important to know the real-time status of global important infectious diseases. And also we should prepare for treating these diseases.



#### **Yee-Chun Chen**

National Taiwan University College of Medicine  
Taiwan

#### Biography

Yee-Chun Chen, M.D., Ph.D. is one of the nation's leaders in infection control and medical mycology in Taiwan. Her research focus includes surveillance of healthcare-associated infection and medical informatics, clinical and molecular epidemiology of invasive fungal diseases, the development of new diagnostic and therapeutic strategies for invasive fungal infections, and pathogenesis of Candida infection. She is PI or co-PI of a series multicenter, clinical and molecular epidemiological studies of fungal infections in Asia as well in Taiwan. She has authored or coauthored more than 200 peer-reviewed journal articles such as Clinical Infectious Diseases, Emerging Infection Diseases, Journal of Antimicrobial Chemotherapy, J Med Internet Res, PLoS One, Journal of Clinical Microbiology, Medical Mycology, Infection Control and Hospital Epidemiology, Journal of Hospital Infection, and Journal of the Formosan Medical Association. Chen has received several achievement awards, including personal academic awards from The Infectious Diseases Society of Taiwan and Formosa Medical Association, and, on behalf of National Taiwan University Hospital, quality improvement awards from Taiwan CDC and Taipei City Government; 2011 Asia Pacific Hand Hygiene Excellent Award (developed country category) from Asia-Pacific Society of Infection Control and WHO Collaborating Centre on Patient Safety, Switzerland.

Dr. Chen has involved in infection control for more than 10 years. For combating emerging infection diseases, she has coordinated multidisciplinary team for annual hospital-wide hand hygiene program during 2004-2013 and medical informatics team for surveillance multidrug resistant organisms and healthcare-associated infection during 2007-2013 at NTUH.

In order to enhance awareness of invasive fungal infection, to improve quality of medical care and laboratory practice, and to facilitate research, she chair, design and promote continued education programs, including Medical Mycology Training Network in Asia and in Taiwan, and Asia CARE meeting. She initiates and chairs the Asia Fungal Working Group of the International Society for Human and Animal Mycology. Dr. Chen is a consultant or committee member at the Ministry of Health and Welfare, CDC, TFDA, and Taipei City Government.

#### Abstract

##### ***How to tackle global infection outbreak – What medical information technology can help***

Surveillance of infections is known as an essential component of infection control

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programs to identify the disease burden and gap for improvement in the past 3 decades. Efficient surveillance conducted on a real-time basis and integrated with effective intervention is one of the lessons learned during SARS epidemic. However, conventional surveillance methods are labor intensive and performance dependent. In the past years, Taiwan Centers for Disease Control (Taiwan CDC) and National Taiwan University Hospital (NTUH) have upgrade or developed nationwide and hospital-wide web-based surveillance systems, respectively. Taiwan CDC provides data exchange platforms to hospitals to facilitate automatically upload data for patients with suspect or proven selected infectious diseases from hospital information system to nationwide notifiable diseases reporting and syndromatic surveillance system. Electronic medical records (EMR) implementation at NTUH provides the opportunity to develop multidrug-resistant organisms surveillance and outbreak detection system and healthcare-associated infection detection and classification systems by using well-defined rules and data mining algorithms. These systems provide reliable and objective surveillance data for quality indicators, improving the detection delay caused by a conventional surveillance system.



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**Wang-Huei Sheng**  
National Taiwan University Hospital  
Taiwan

**Biography**

Dr Wang-Huei Sheng is a Professor in the Department of Internal Medicine of National Taiwan University Hospital. He is also Director of the Center for Infection Control, and Attending Physician at National Taiwan University Hospital, Taipei City, Taiwan

Dr Sheng gained his medical degree at Taipei Medical University in 1992, after which he did his residency at National Taiwan University Hospital. He spent 3 years as Attending Physician at Provincial Taoyuan Hospital, followed by 2 years with the AIDS Research Center of the Department of Health, Taiwan. In 2007 he gained his Doctoral degree from National Taiwan University.

Dr Sheng is a currently a member of the Society of Emergency Medicine, the Society of Internal Medicine, the Society of Immunology, Microbiology and Infectious Diseases, the Society of AIDS Research, and the Society of Hospital Infection Control in Taiwan. Research interests include infection control of multiple drug resistant bacteria and HIV/viral hepatitis co-infections. Publications include more than 150 SCI manuscripts during 1998-2015.

**Abstract**

***Hand Hygiene from Policy to Practice***

Healthcare-associated infections (HAIs) cause significant concern regarding the safety and quality of healthcare quality worldwide. The World Health Organization launched the World Alliance for Patient Safety since 2004. HAIs have been identified as a fundamental priority, and were selected as the topic of the first Global Patient Safety Challenge. Hand hygiene was identified as the core component of this strategy because it is a simple, standardized, low-cost measure based on solid scientific evidence. The major barrier is poor compliance by healthcare providers, regardless of available resources. We implement a hospital-wide hand hygiene program since 2004. The program was associated with a reduction in the HAIs of most hospital units and HAIs caused by methicillin resistant *Staphylococcus aureus* (MRSA) and multiple drug resistant *Acinetobacter baumannii*. This effect was achieved and confirmed using a before and after study design combined with a prospective HAI surveillance program and hospital-wide annual promotion, which resulted in sustained effects and high-quality. The costs of implementing the program were low compared to the costs saved by reducing the HAI incidence. The impact may be even greater with full adherence to the five moments for hand hygiene.



**Gompol Suwanpimolkul**  
Chulalongkorn University  
Thailand

**Biography**

April 2002-May 2006: Internship and Internal Medicine Resident at Prince of Songkhlanakarind University, Songkhla, Thailand

June 2006-May 2008: Clinical infectious Fellowship at Chulalongkorn University, Bangkok, Thailand

June 2006-May 2008: The Master of Science Degree in Medicine, Chulalongkorn University, Bangkok, Thailand

November 2007-December 2007 Scholar Visiting infectious Fellowship at Yale University Hospital, CT, USA

June 2008-March 2009: Advanced infectious Fellowship at Division of Infectious Disease, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand

2009-present: Infection Control Committee of Chulalongkorn University, Bangkok, Thailand

2009-present: Infection Control Committee of Thailand

April 2009-present: Consultant and lecturer at Division of Infectious Disease, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand

2011-2013: Postdoctoral Fellowship in Molecular Epidemiology of Tuberculosis, Division of Pulmonary and Critical Care, Department of Medicine, University of California San Francisco, USA

2014-present: Committee of the anti-tuberculosis association of Thailand under the royal patronage of H.M. the king

2015-present: Committee of national drug resistant-tuberculosis experts.



**Pitak Detporntewan**  
King Chulalongkorn Memorial Hospital  
Thailand

**Biography**

Pitak Detporntewan, M.D. M.Sc.

2006: Doctor of Medicine

Chulalongkorn University, Bangkok, Thailand

2010: Diploma Thai Board of Internal Medicine

The Royal College of Physicians of Thailand

2012: Master of Science (Medicine)

Chulalongkorn University, Bangkok, Thailand

Thai Board of Infectious Diseases

The Royal College of Physicians of Thailand

2013: Thai Board of Hospital Medicine

Dept. of Medicine, King Chulalongkorn Memorial Hospital, Bangkok, Thailand

2014: Thai Board of Ambulatory Medicine

Dept. of Medicine, King Chulalongkorn Memorial Hospital, Bangkok, Thailand

2014 – present: Instructor, Hospital and Ambulatory Medicine

King Chulalongkorn Memorial Hospital, Bangkok, Thailand





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**Tran Quang Binh**  
Choray hospital  
Vietnam

**Biography**

A/Prof. Tran Quang Binh was born in 1956 in Ho Chi Minh city.

Graduated from University of Medicine and Pharmacy, Ho Chi Minh city in 1981. Specialist in general internal medicine in 1985. Defensed and received PhD Degree at University of Medicine and Pharmacy, Ho Chi Minh city in 1996specialized in internal medicine. assigned as Associated Professor in 2012.

Since 1982- till now he works at Choray hospital and is head department of malaria research, head of department of internal medicine and infectious diseases, and then head department of tropical and infectious diseases.

From 2009, he is head department of tropical and infectious diseases and concurrently is vice head of medical training center of Choray hospital.

His interest is the field of intensive care, internal medicine, infectious diseases as well as infection of central nervous system.

Until 2015, he was author and co-author of 91 specialized scientific papers, in which 48 were published in domestic medical journals and 43 were published in international journals.

**Abstract**

***General situation of emerging infectious diseases and the preparedness for disease outbreaks at Choray hospital***

Malaria, a burden disease in 90s decade, has been under the control since 2010 in Vietnam. Sporadic cases of cholera were reported in recent years in some healthcare settings while hand – foot – mouth was a prevalent disease with high mortality. Dengue fever was occurred around the year and has two peaks at the beginning and the end of the rainy season becomes a burden disease for the healthcare system at this time, this disease now has the trend changing to the adult patients with high severity and mortality. Recently, influenza A/H5N1 and A/H1N1 has been well monitored; the surveillance and prevention of emerging disease outbreaks such as Ebola virus disease or MERS CoV were also performed in large scale. Choray hospital (CRH) already has the preparedness for medical staffs such as: set up isolation areas, closed monitoring of suspected patients admitted to the hospital at all the clinical departments, training about the clinical manifestations, the transmission of diseases, enhancing the infection control procedures, develop the management guidelines and the procedure for screening, receiving and treatment the patients. CRH also strengthens the capacity of laboratory for early detection and investigation as well as participates to the surveillance and information system of the MOH and concerning organizations.



**Le Thi Anh Thu**  
Cho Ray Hospital  
Vietnam

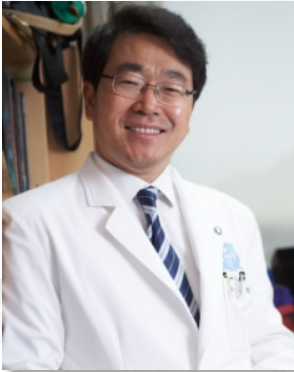
**Biography**

A/Prof LE THI ANH THU, MD, PhD, is President of Ho Chi Minh City Infection Control Society (HICS) Vietnam and Chief of Infection Control Department, Cho Ray Hospital. She is also Chief of Department of Infection Control and Hospital Epidemiology, Pham Ngoc Thach University of Medicine and Lecturer for University of Medicine and Pharmacy of Ho Chi Minh City.

A/Prof THU received Diploma of Medicine from Hue University of Medicine, Viet Nam in 1988; Diploma in Clinical Epidemiology of University Bordeaux in 2000, and received PhD degree in Clinical Epidemiology, specialized in communicable diseases in University of Newcastle, NSW, Australia in 2005 and assigned as Associated Professor in 2011.

She has experiences of working as Infectious diseases specialist for 10 years and is

working as hospital epidemiologist, infection control consultant for more than 15 years for many hospitals in Vietnam. She is nominated as Board Member of Infection Control Committee of Ministry of Health of Viet Nam, participating in the National Writing Committee to develop guidelines and policies in infection control for the Ministry of Health. She has been chief investigator for many important researches funded by the Vietnamese Government and WHO Small Grant Patient Safety. Her recent researches are mainly in infection control, hospital epidemiology, risk and patient safety. She is the author of more than 60 publications and books and presented in more than 30 international conferences.



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## Ho-Seong Han

Seoul National University Bundang Hospital  
Korea

### Biography

Dr. Ho-Seong Han graduated from Seoul National University College of Medicine in 1984, and finished internship and residency of department of Surgery at Seoul National University Hospital from 1989 and became associate professor and the chairman of department of Surgery at Ewha Women's University Hospital from 1993 to 2003. The present position is Vice Director in Cancer and Neuroscience of Seoul National University Bundang Hospital. The field of interest is hepatobiliary surgery and laparoscopic surgery. Telemedical activities are also keen interest and performing tele-conferences and tele live surgery for over 10 years.

### Abstract

#### ***MTC (Medical Tele Collaboration) Project from Seoul National University Bundang Hospital***

Our Mission is to combine among TEIN members with a comprehensive program of e-learning program of educational services for Global Medical Education Centre program on Characteristics of Minimal Invasive Surgery

Our purpose is to improve the quality of medicine through a network of telemedicine educational programs among Trans-Eurasia Information Network (TEIN) partners. We also want to share knowledge with TEIN partners in order to narrow the gap in medical expertise and promote standardization in this field. This project will activate a TEIN network through tele-education among collaborating hospitals and support medical teams and engineers to develop new skills.

This activity will promote collaborative efforts to improve medical standards in their own countries and ensure collaboration to enhance the quality of patient outcomes.

Our activity include

- Organize the off line symposium such as annual international postgraduate course of laparoscopic surgery symposium in conjunction with the Continuing Medical Education courses of the International Association of Surgeons Gastroenterologists and Oncologists and the Asia-Pacific Surgical Forum.
- Host a weekly MIS Tele-education program for post graduate students. All contents are produced by SNUBH.
- Produce education programs which are focused on medical specialists from partner hospitals



**Rungsun Rerknimitr**  
Chulalongkorn University  
Thailand

#### Biography

Dr. Rungsun Rerknimitr graduated from Chulalongkorn University, Thailand with honor. He obtained his American Board of Internal Medicine from Rush Medical College, Chicago in 1996. Later, he pursued his Gastroenterology fellowship from Louisiana State University in New Orleans. Before he returned to Thailand, he obtained an ERCP fellowship from Indiana University. To date he has published 5 English-GI- Endoscopy Atlases and more than 70 articles in peer review GI journals. He is currently a Professor of Medicine and a Director of GI Endoscopy Excellence Center at Chulalongkorn University, Bangkok, Thailand. He is also a founding member of the Thai Association of Gastrointestinal Endoscopy (TAGE) and also a past chief editor of the Thai Journal of Gastroenterology. He is now the current president for TAGE (2014-2016). He recently won the award as the most achievement young internist (2013) from the Thai Royal College of Physicians. In 2014, he received the most achievement in research award from Chulalongkorn University. His main endoscopic interest is therapeutic ERCP with a special interest in metallic stent clinical application. His extra-endoscopy medical interest is telemedicine.



**Shiaw-Hooi Ho**  
University of Malaya  
Malaysia

#### Biography

Dr. Shiaw-Hooi Ho is a Consultant Gastroenterologist and Senior Lecturer in the Department of Medicine, University of Malaya. Dr. Ho graduated from University of Science, Malaysia and obtained a Master's Degree in Internal Medicine from University of Malaya. He has a keen interest in GI therapeutic endoscopy, image-enhanced endoscopy and pancreato-biliary endoscopy. Following his attachment in Japan in the year 2010 (JSGE Research Fellowship Award), he began to promote the use of image-enhanced endoscopy and endoscopic submucosal dissection both in the detection and management of early GI neoplasia back in his home country. He is also a local faculty of Asian NBI Group (ANBIG) who helped to organize many local ANBIG workshops over the past 2 years. Apart from endoscopy, he is also one of the key coordinators in setting up telemedicine in UMMC which has since been actively participating in teleconferences organized by the APAN medical working group over the last few years.

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#### Abstract

##### ***What's new in Endoscopic Club E-conference?***

Regular endoscopy teleconferences were long held as part of APAN MWG activities. The idea to form a specialized endoscopy group was conceived early last year when the existing bi-yearly APAN meeting could not cope with the demand of the increasing number of participating centers. Endoscopy Club E-conference (ECE) was subsequently formed in May 2014 and was projected to have at least quarter-yearly meeting. At present, we have about 29 members and 7 teleconferences were successfully held so far. Apart from general case sharing, monothematic-style case presentation and didactic lectures from key opinion leaders also seem to garner good response from the participants. Driven by the recent advancement in GI endoscopy, ECE will continue to serve as a useful platform for interaction among experts in this field.



**Dadang Makmun**  
University of Indonesia  
Indonesia

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**Kaka Renaldi**  
University of Indonesia  
Indonesia



**Aria Kekalih**  
University of Indonesia  
Indonesia

#### **Biography**

I have 5 years experiences of working in the information technology management and development in health and education sector in Indonesia especially in the field of community health, epidemiology and research data management. Eight years experienced in individual or team work project for various national and international agencies, as a researcher and data analyst. As research consultant, active in providing consultancy for medical professional institute, hospitals and industry in area of community health monitoring and evaluation.

I have combination of epidemiology, biostatistics and information technology knowledge to provide comprehensive data management and research analysis. As a lecturer, actively involved in the Research Unit, Editor of Medical Journal of Indonesia, besides giving lecture, conduct research, providing community health services and being an advisor for many research projects.

Since 2 years ago, I have received scholarship under SEAMEO –UI-Harvard cooperation for Community Nutrition. My interest is in analysis of child morbidity and mortality related to nutrition, feeding practice and parents working condition.





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## Mir Misbahuddin

Bangabandhu Sheikh Mujib Medical University  
Bangladesh.

### Biography

Dr. Mir Misbahuddin received his MBBS (1979) from the Mymensingh Medical College under The University of Dhaka, and PhD (1988) from The University of Tokushima School of Medicine, Tokushima, Japan. He joined as Associate Professor at the Institute of Postgraduate Medicine and Research, Dhaka in 1993 and was promoted to Professor in Bangabandhu Sheikh Mujib Medical University in 2001. His research interest is to find out the drug for the treatment of arsenicosis. In addition, he is conducting clinical trials and bioequivalence study. He is, currently, the editor of Bangladesh Journal of Pharmacology. He was the editor of Bangladesh Medical Research Council Bulletin, Bangladesh Journal of Physiology and Pharmacology, and Teachers' Association Journal. His keen interest is in the field of both asynchronous and synchronous virtual pharmacology. In asynchronous teaching, a student can use the teaching contents from a website at anytime, from anywhere and several times. In the synchronous teacher, he is trying to arrange live lectures for students of Pharmacology at under- and post-graduate level from home and abroad. He edited six books on his subject.

### Abstract

#### ***Experience of Telemedicine activity in Bangladesh***

Inadequate number of teachers (only 130) and lack of uniform teaching are becoming obvious in basic medical science education (95 medical colleges with yearly entry of 10,000 students) in Bangladesh. Our focus on telemedicine is to teach medical students studying pharmacology in Bangladesh. At present we have synchronous teaching with 32 medical colleges, a website for teaching materials, download the teaching contents and appear in self-assessment. They can answer MCQ, fill-in the blanks, true-false, problem-based and analytical questions and interpret illustrations as assignments.

Since my involvement in the field of telemedicine for more than four years, I have identified the following problem: a) Misconception: Our doctors have wrong concept about the word "telemedicine". It means the patient will take advice from a doctor staying away from him through internet; b) worried: Our teachers think that they will lose job if we continue to teach students by internet; c) unskilled in using computer: Eighty percent medical students can use laptop or smart phone whereas 80% teachers cannot; d) low internet speed: There are a few medical colleges outside Dhaka (capital city) where internet connection are there or inadequate speed for video conferencing.

As a future plan, I am trying to involve pharmacology teachers more in this project for increasing their awareness about telemedicine. I am involving students to use the setup for video conferencing. About internet speed, I have nothing to do except wait. However, I am checking the software which one is the best at low internet speed for video conferencing. In addition, preparation of high quality teaching materials is also important.



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## Thawatchai Akaraviputh

Mahidol University  
Thailand

### Biography

Dr. Thawatchai Akaraviputh is a professor of surgery at the Department of Surgery, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand. He received his undergraduate degree and surgical training from the Faculty of Medicine Siriraj Hospital, Mahidol University. In 1999, he received Germany Academic Exchange Service (DAAD) Scholarship for training at Germany. Two years later, he completed a postdoctoral fellowship in advanced surgical endoscopy and obtained "Doktors der Medizin" degree

with professor Nib Soehendra at University Hospital Eppendorf, Hamburg, Germany. He continued his training in advanced laparoscopic surgery and subsequently in robotic surgery. He has many international publications in a variety of endoscopic and laparoscopic surgery. At present, he arranged many levels of hands-on workshops of endoscopy and laparoscopy for surgical residents at Siriraj Hospital such as basic laparoscopy training in box model. His favorite fields are minimally invasive surgery and telemedicine activity.



**Wiraphon Manatarinat**  
Mahidol University  
Thailand

#### Biography

Mr. Wiraphon Manatarinat is an Engineer, Information Technology Department, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand.



**Shuji Shimizu**  
Kyushu University Hospital, TEMDEC, Director  
Japan

#### Biography

Dr. Shuji Shimizu, M.D. Ph.D. is surgeon, majoring in endoscopic surgery, which is sometimes called "keyhole operation" and is patient-friendly. But currently Dr Shimizu works more in the project of telemedicine which started between Korea-Japan in 2002. This project is now wide-spread in Asia-Pacific regions and is extending into Europe and USA. Dr. Shimizu is Associate Professor of Department of Endoscopic Diagnostics and Therapeutics and Deputy Director of Telemedicine Development Center of Asia at Kyushu University, Fukuoka, Japan. Dr Shimizu is currently co-chairperson of medical working group of APAN, and an executive committee member of International Association of Surgeons, Gastroenterologists and Oncologists, serving as chairman of telemedicine to connect worldwide centers of continuous medical education.



**Mark Anthony Ayuyao De Lusong**  
University of the Philippines  
Philippines

#### Biography

Training Program Director 2008–Present	University of the Philippines, Philippine General Hospital Department of Medicine Section of Gastroenterology	Manila
Treasurer 2013–Present	Phil. Society of Digestive Endoscopy	Manila
Member – Research Committee 2013–Present	Phil. College of Physicians	Manila
World Gastroenterology Organization: Train The Trainers 2012 2012	Xijing Hospital of Dig. Disease	Xian, China

Advanced Therapeutic Endoscopy and Endoscopic Ultrasonography Fellowship Training 2007–2008	California Pacific Medical Center	San Francisco, USA
Chief Fellowship in Gastroenterology 2006 – 2007	Section of Gastroenterology Philippine General Hospital	Manila
Fellowship Program in Gastroenterology 2005 – 2007	Philippine General Hospital	Manila
Residency Program in Internal Medicine 2002 – 2005	Philippine General Hospital	Manila
Postgraduate Course in Occupational Health and Safety 2004	University of the Philippines, College of Public Health	Manila
Post Graduate Clinical Internship 2000	Philippine General Hospital	Manila
Doctor of Medicine 1995 – 2000	University of the Philippines	Manila
Bachelor of Science in Psychology 1991-1995	University of the Philippines	Quezon City
Basic Computer Programming and Computer Assembly 1991	Ateneo de Manila	Quezon City
High School Diploma 1987-1991	Philippine Science High School	Quezon City

#### Abstract

#### ***Introduction of NKTl***

The National Kidney and Transplant Institute (NKTl) is a tertiary medical specialty center with a significant history relevant to the medical profession in the Philippines. It is the center for referral of patients from various regional hospitals in the nation and is recognized as the lead agency in transplant services. In its 22-year existence and operations, the Institute's medical achievements and milestones are comparable to top hospitals in the world.

Formerly known as the National Kidney Foundation of the Philippines (NKFP), the Institute has a three-fold mission : Service, Training and Research primarily for the benefit of the Filipino people afflicted with kidney and allied diseases and to secure the well-being of the people by providing them with the specialized health and medical services.

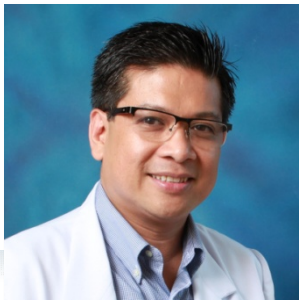
To recognize the institution's mission of training and research for the benefit of Filipinos, NKTl has participated and continues to participate in global collaboration with countries around the world through information and communication technology. Together with this thrust, NKTl has joined APAN and TEMDEC in the global collaboration of ideas and partnerships.



**Dinesh Taneja**  
Institute of Liver and Biliary Sciences  
India

#### Biography

Dinesh Taneja, M.E. (Computers Technology and Applications) is a professional with 19 years of rich experience in spearheading and managing the IT/ Telecom operations for large-scale organizations. He is an IT infrastructure architect, strategist & implementer with demonstrated abilities in the implementation of IT infrastructure and new technology for streamlining IT related operations. He is presently working at Institute of Liver and Biliary Sciences, New Delhi, India as Sr. manager IT to assist the medical community for telemedicine and related activities.



**Jeffrey J. P. Domino**  
St. Luke's Medical Center  
Philippines

#### Biography

A Minimally Invasive Surgeon whose field of specialty is Endocrine Surgery and Advanced Laparoscopic and Robotic Surgery. He pioneered several advanced minimally invasive surgical procedures in the Philippines such as the "Scarless Cholecystectomy" or the Single Port Laparoscopic Cholecystectomy, Endoscopic Thyroidectomy, a neck surgery without a neck scar and Focused Parathyroidectomy. He also performed the Philippines first Robotic Thyroid Surgery successfully using the Da Vinci Si Surgical System.

He acquired his medical degree at the University of Santo Tomas, Manila in 1994 and finished his General Surgery Training at the St. Luke's Medical Center, Quezon City in 2001. He pursued international studies by completing clinical fellowship training in Endocrine Surgery as well as the Advanced Laparoscopic and Endoscopic Surgery at the National University Hospital in Singapore. He is also a member of the world renowned Clinical Robotics Surgery Association and has completed his International Masters for Health Leadership, Master of Management (IMHL) as a scholar at the Faculty Desautels, McGill University, Montreal, Quebec, Canada.



**Glenn Hermosura Francia**  
St. Luke's Medical Center – Global City  
Almora General Hospital  
Philippines

#### Biography

After his experiences as an IT specialist in MEDSERV and Almora General Hospital, Mr. Glenn Hermosura Francia is working now as a Network Specialist/System Administrator NETWORK I in St. Luke's Medical Center – Global City. He finished Emilio Aguinaldo College in Manila with the degree of Bachelor of Science in Nursing.



**Irina Sudovykh**  
Kyushu University Hospital  
State Novosibirsk Regional Clinical Hospital  
Russia

#### Biography

Irina Sudovykh graduated from Novosibirsk State Medical Academy (Russia) with honors in 2000, then finished Surgical Residency in 2002 and got PhD in Medicine in 2006. Since 2002 she has been working in Endoscopy Department of State Novosibirsk Regional Clinical Hospital, and also in private clinics and science in Novosibirsk (Russia). Her publications are mainly in endoscopy, surgery and pathomorphology. She was trained by experts in Russia and abroad and is experienced in up-to-date endoscopy including

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advanced interventional procedures. In 2007 she was granted by European Society of Gastrointestinal Endoscopy (ESGE) for Advance Endoscopy Training in Brussels (Belgium), and full 2014 was dedicated to Advance ERCP Training and EUS in Rome (Italy). The main professional interest of Dr. Irina Sudovykh is endoscopy in pancreato-biliary diseases and early GI cancer. Currently she has a position of Assistant Professor in Department of Endoscopic Diagnostics and Therapeutics of Kyushu University Hospital (Japan).

#### Abstract

### ***Introduction of Novosibirsk State Medical University Novosibirsk State Regional Clinical Hospital***

Continues education and sharing experience with colleagues are in great importance for medical professionals worldwide. Current state of technical possibilities gives a great chance to development of international professional network communication. Starting involvement of Russia in Endoscopic Telemedicine projects supported by TEMDEC with hospitals from Asia, Europe and Latin America, we faced up with both enthusiasm and difficulties. Some issues are to be discussed with colleagues already experienced in telemedicine and new ones just going to participate in such kind of collaboration activity



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### **Kalayarasan MS**

Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER)  
India

#### Biography

Dr. Kalayarasan MS, DNB, M.Ch. is working as an Assistant Professor in the Department of Surgical Gastroenterology, JIPMER, Puducherry, India. He obtained Bachelor of Medicine, Bachelor of Surgery (M.B.B.S.) degree and Master of Surgery (M.S.), General Surgery from JIPMER. He had Magister Chirurgiae (M.Ch.), in Gastrointestinal Surgery from GB Pant Hospital & Maulana Azad Medical College, New Delhi. He is the member of multiple national and international associations and membership committee member of International Society for Diseases of the Esophagus (ISDE). In addition to the clinical work, he is actively involved in research and teaching postgraduate medical students. Dr. Kalayarasan has published 25 original articles and case reports in peer-reviewed National and International journals and contributed five chapters to textbooks. His areas of interest include minimally invasive gastrointestinal surgery and telemedicine.

#### Abstract

### ***Telemedicine at JIPMER Pondicherry, India***

Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER) is a tertiary care Institute of National Importance under Ministry of Health and Family Welfare, Government of India. The Ministry of Health and Family Welfare had designated JIPMER as Regional Resource Centre (RRC) for Telemedicine activities in South India. The RRC at JIPMER caters to more than 160 medical colleges in five South Indian states. The Telemedicine infrastructure at JIPMER is up to date with most of the available Telemedicine instruments, high speed (1Gbps) internet connectivity and satellite connectivity. Various telemedicine projects are currently running in JIPMER, which includes Onconet cancer project, National Knowledge Network (NKN), National Medical College Network (NMCN) and Medical Virtual Class Room project (MVCR). Multiple Telemedicine patient care services including Tele-emergency, Tele-Out Patient Department, Tele-Intensive Care Unit, Tele-Follow up Clinic, Mobile Telemedicine Kiosk are successfully running in JIPMER.



## Ravi Kumar Chittoria

Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER)  
India

### Biography

Dr. Ravi Kumar Chittoria is currently Additional Professor and Head of the Department of Plastic Surgery, JIPMER, Puducherry, India. He obtained Master of Surgery (M.S.), General Surgery degree from PGI, Chandigarh and Magister Chirurgiae (M.Ch.), in Plastic Surgery from Grant Medical College, Mumbai, India. He is the member of more than 25 national and international associations. Dr. Chittoria has published more than 50 original articles and case reports in peer-reviewed National and International Journals. In addition to clinical work he is actively involved in telemedicine activities. He obtained post graduate diploma in telemedicine (PGDTM) from Bioinformatics Institute of India (BIIA). He underwent additional training in telemedicine from Televital India, ISRO, Bangalore, India. He is presently the Nodal officer telemedicine and in charge of tele-health programme at JIPMER, Puducherry.



## Stephen Tsao

Tan Tock Seng Hospital  
Lee Kong Chian School of Medicine  
Singapore

### Biography

Dr. Stephen Tsao is a senior consultant in the Gastroenterology Department of the Tan Tock Seng Hospital and Adjunct Associate Professor with Lee Kong Chian School of Medicine. He underwent undergraduate and postgraduate training in the UK, and obtained his Fellowship to the Royal College of Physicians (Edinburgh, UK) in 2012. He furthered his training in image enhanced endoscopy and ESD in Kobe, Japan under Japanese Society of Gastroenterology Research Fellowship in 2010.

After Dr. Tsao completed his specialist training in the UK, he moved to Singapore in 2008. He has a special interest in small and large bowel disease, in particular inflammatory bowel disease and colon cancer, and endoscopic treatment (ESD) for early gastrointestinal cancers. Dr. Tsao is an expert in both diagnostic and therapeutic endoscopy, and is leading the video capsule endoscopy service at Tan Tock Seng Hospital. He also has a keen interest in teaching and developing endoscopic skills of trainee specialists. Dr. Tsao has a postgraduate diploma in medical education from Staffordshire University UK. He is a keen teacher and strong believer in educating the next generation of doctors and raising public awareness on various medical conditions



## Quan Wai Leong

Tan Tock Seng Hospital  
Singapore

### Biography

Dr Quan Wai Leong graduated from the Medical Faculty at the National University of Singapore. After completing his training in Gastroenterology at Tan Tock Seng Hospital, Dr Quan spent a year at the Prince of Wales Hospital, Hong Kong focusing on advanced therapeutic endoscopy and ERCP. He is currently the Director of Endoscopy Service at Tan Tock Seng Hospital.

His area of interests include Endoscopic Retrograde Cholangio-Pancreatography(ERCP), Spyglass Cholangioscopy, endoscopic mucosal resection(EMR), enteral stenting and double balloon enteroscopy (DBE).



**Kuriko Kudo**  
Kyushu University Hospital  
Japan

#### Biography

Kuriko Kudo, Ph. D, has worked at the Telemedicine Development Center of Asia (TEMDEC), Kyushu University Hospital since August 2011. Currently, she works as research assistant professor, engineer for the technology of telemedicine. Her major was digital archiving focused on Japanese traditional performing arts such as kabuki (especially its make-up). She used the 3DCG system to represent faces of kabuki actors and replicas, based on physical measuring and modeling that accounts for human motion, human shape, lighting, and the spectral reflectance of cosmetics. Now, her research is about handling teleconference systems, and communication design for handling international medical teleconferences. She is working on standardization and development of on-line database system called "med-hok".



**Ryoko Yoshida**  
Kyushu University Hospital  
Japan

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**Ungarala Satyanarayana**  
Asian Institute of Gastroenterology  
India

#### Biography

Educational Qualification: Masters in Business Administration

Experience : 26 years in Healthcare industry

Present position : General Manager – Operations

Responsibilities : Regular hospital administration, Business promotion, Patient care services, Public Relations, Academic Programmes, Telemedicine, Tele conferences and live

workshops.

Present employer : Asian Institute of Gastroenterology, India

#### Abstract

##### ***Remote Medicine – AIG Experience***

Asia Institute of Gastroenterology is a 300 hundred bedded single specialty hospital for treating Gastrointestinal and Liver related complications. AIG always showed keen interest in promoting

REMOTE MEDICINE. AIG believes that Remote Medicine is just not only to provide treatment to the needy people who hail from remote areas and also to educate the medical fraternity from various parts of the world so that we can reach more patients. AIG started its Rural Healthcare Project few years back with an aim to provide modern healthcare at their door steps of the poor. Through this project AIG could able to update the government agencies about the disease pattern in rural areas and the issues to be attended immediately by the government bodies. AIG also actively participate almost all the programmes organized by TEMDEC / APAN to reach many doctors all over the world and also to learn

new procedures and technologies from them. Once the demand is created, AIG started looking for various options available for transmitting high quality videos from our centre to various parts of the world as part of its continuous educational programme. In this process AIG started using the following technology as Video conferencing equipment, Webcasting, Hybrid transmission ( Skype + Team Viewer ), Vidyo, DVTS, Satellite based transmission, transmission using fiber optic cable and Life-size cloud etc.

Asian Institute of Gastroenterology is able to reach every nook and corner of the world with the available technology.



**Saroj P. Dhital**  
Kathmandu Model Hospital  
Nepal

#### Biography

Dr. Saroj P. Dhital is a general surgeon with interests beyond clinical surgery. One of the founders of Public Health Concern Trust- Nepal (PHECT), he has recently retired as the Chief of the Department of Surgery in Kathmandu Model Hospital and as the Director of Academic Affairs, PHECT. He still accepts two surgical residents every year. Interest in 'Demystification of Knowledge for Empowerment of People' has led him to work for promoting rural surgery.

He is currently holding the responsibility of Director of Health Sciences and Telemedicine in NREN, Chairman of the Telemedicine Society of Nepal and Coordinator of Rural Surgery Project under the department of General Surgery, Kathmandu Model Hospital. Besides this, he is also a writer and columnist.

#### Abstract

##### ***Telemedicine in Nepal: Ups and Downs.***

Development of a nation should be understood beyond the accumulation of wealth, construction of infrastructure or access to technology. Human health and happiness are an integral part of meaningful development. They make the very purpose of development and bring into the scenario - social justice, environment, human rights etc. Talking about ICT for development without mentioning ICT for health doesn't carry much sense.

Huge inequality in healthcare affordability is present in the world today. This gap continues to widen. ICT is the only 'thing' that is getting cheaper, accessible and efficient. And, fortunately, it has important usefulness in healthcare.

Telemedicine in Nepal is being practiced to different extent by different sectors for a decade now. Not all of these efforts have always been successful. The opportunities and challenges unveiled while practicing telemedicine has been discussed and some remedial strategies discussed.





**Ti-Chuang Chiang**  
National Taiwan University  
Taiwan

#### Biography

Mr. Ti-Chuang Chiang, B.Sc. has been working as Senior Technician for 14 years at Division of Medical Informatics, College of Medicine, National Taiwan University, after 21 years of service as Medical Physicist at Department of Radiotherapy, National Taiwan University Hospital. Education Technology became his major interest, and he has supported many medical distance learning and telemedicine projects at NTU with his IT skills. Mr. Chiang is currently Secretary General of International Medical Physics Certification Board, helping the international medical community to achieve both performance excellence and contributions to health care.

#### Abstract

##### ***Taiwan's experience of remote medicine***

Patients living in mountainous regions and off-shore islands in Taiwan lack long-term medical service due to the restriction of geographic, traffic and socioeconomic status. It is thus always an important issue to Ministry of Health and Welfare. There have been many projects aiming to improve this service, including construction of medical information system for remote areas, and promotion of community health for aboriginal areas. This presentation will share some Taiwan's experience.



**Alvin B. Marcelo**  
Asia eHealth Information Network  
Philippine

#### Biography

Dr. Alvin B. Marcelo is a general and trauma surgeon by training who is currently chair of the Asia eHealth Information Network ([www.aehin.org](http://www.aehin.org)). Prior to this, he served as senior vice-president and chief information officer of the Philippine Health Insurance Corporation (PhilHealth). As the director of the University of the Philippines Manila National Telehealth Center and chief of the Medical Informatics Unit, Dr. Marcelo established the Master of Science in Health Informatics program and conducted local and international research in the field of eHealth and health information systems development. He took his postdoctoral fellowship in medical informatics at the National Library of Medicine in Bethesda, Maryland with research interests in telepathology, mobile computing, and bibliometric analysis of MEDLINE content. Dr Marcelo also manages the International Open Source Network for ASEAN+3, a centre of excellence in free and/or open source software established by UNDP, and advises the Community Health Information Tracking System (or CHITS) , a Stockholm Challenge finalist in the health category in 2006. He is the Philippine representative to the Asia Pacific Association for Medical Informatics (APAMI) and the International Medical Informatics Association (IMIA). Dr Marcelo is certified in the governance of enterprise IT (CGEIT - [www.isaca.org](http://www.isaca.org)), The Open Group Architecture Framework (TOGAF - [www.opengroup.org](http://www.opengroup.org)), and Archimate.

#### Abstract

##### ***Building Capacity for IT Governance in National Telehealth Programs in Asia: the Asia eHealth Information Network (AeHIN)***

Authors: Alvin Marcelo, Jai Ganesh, Jai Mohan, D.B. Kadam, B.S. Ratta, Gumindu Kulatunga, Sheila John, Andry Chandra, Oscar Primadi, Athika Abdul Sattar Mohamed, Muhammad Abdul Hannan Khan, Abul Alam Azad, Portia Marcelo, Fazilah Allaudin, Boonchai Kijsanayotin

While telehealth and telemedicine have been practiced in many Asian countries,

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governance is not equally established across all countries. The Asia eHealth Information Network or AeHIN was created by the World Health Organization to support countries with the implementation of their national eHealth strategies. With a current membership of more than five hundred over a span of twenty-one countries, AeHIN has begun building capacity for eHealth in the region. One important focus area of AeHIN is governance. Over the past three years, AeHIN has trained its members on IT governance and continues to monitor its effect. One interest area is telehealth and telemedicine. After conducting a baseline study of the governance and management of national telehealth programs, a group of AeHIN members continue to dissect the issues that beset the programs and try to seek solutions for them. This paper shares the gaps that have been found in the national telehealth programs: lack of leadership, funding, and a reference blueprint.



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**Dennis B. Batangan**  
Ateneo De Manila University  
Philippines

**Biography**

Dennis B. Batangan, M.D., M.Sc. (Heidelberg) is a health social science, public health specialist and an ICT for Health researcher. He is a Research Associate at the Institute of Philippine Culture, Ateneo De Manila University, Philippines. He finished B.S. Psychology, cum laude and Doctor of Medicine from the University of the Philippines (UP). In 1992, he completed an M.Sc. degree (Community Health for Developing Countries) from University of Heidelberg in Germany. Dr Batangan received in 1997 the UP Alumni Association Professional Award in Public and Community Health and in 2012 the Medical Action Group Blue Jeans Award for Health and Human Rights Work.

**Abstract**

***Electronic Medical Records (EMRs) as Data Inputs to Geospatial Mapping of Fever Patterns in Rural Health Units in the Philippines***

Authors: Dennis B. Batangan, M.D., M.Sc. Ateneo De Manila University, Institute of Philippine Culture, Philippines and Program Director, eHATID LGU project\*

Andrei Coronel, Ph.D. Ateneo De Manila University, School of Science and Engineering, Philippines and Project Leader, eHATID LGU project\*

\*eHATID LGU project - eHealth TABLET (Technology-Assisted Boards for Local Government Unit Efficiency and Transparency) for Informed Decision-Making of Local Government Units of the Philippine Department of Science and Technology- Philippine Council for Health Research and Development and Ateneo De Manila University.

<http://ehatid.ehealth.ph/>

The eHealth TABLET (Technology-Assisted Boards for LGU Efficiency and Transparency) for Informed Decision-Making of Local Government Units or eHATID LGU project is providing Rural Health Units in the Philippines with a cloud-based solution for migrating patient medical records into EMRs using a customized software installed in computer tablets. EMR data is stored in and analyzed using the GovCloud platform of the National Government Data Center (NGDC). For geospatial mapping of fever patterns, the EMR and demographic data are filtered and mapped by the eHATID LGU application and visualized in geographic maps with recorded fever cases identified up to the village level. These geospatial maps with identified fever cases provide the Rural Health Units with real time information on the monitoring of fever cases in specific population groups and can alert the health authorities on unusual fever patterns indicative of possible disease outbreaks that may affect their health service areas.



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## Sheila John

Medical Research Foundation in Chennai  
India

### Biography

Dr. Sheila John is a Consultant Ophthalmologist and Head of Teleophthalmology and E-Learning departments in Sankara Nethralaya, a unit of Medical Research Foundation in Chennai, Tamilnadu, INDIA. She has been involved in Research and has twelve publications both in National and International Journals. She has conducted Teleophthalmology workshops both in India and Abroad. She is the member of American Telemedicine Association and Telemedicine society of India. She is responsible for teleconsultation for rural patients, through mobile vans and offering expert opinion to practicing ophthalmologists.

### Abstract

#### ***Teleophthalmology Program in Sankara Nethralaya, Chennai, India from 2010-2015***

Authors: Dr.Sheila John, Mr.KPT Kannan, Mrs.M Premila

Affiliation: Department of Teleophthalmology Sankara Nethralaya, Unit of Medical Research Foundation, Chennai, India.

AIM: To discuss the various aspects of Teleophthalmology program implemented in Sankara Nethralaya, Chennai, India, from April 2010-March 2015, which helped in diagnosing various eye/ocular diseases of patients in rural villages of Tamil Nadu.

METHODS: Mobile van with paramedical staff and ophthalmic equipment provided comprehensive eye examination and Teleconsultation(provided by satellite & internet connectivity) to the rural population in Tamil Nadu.

RESULTS: For the five year period 827 number of eye camps were conducted. Total number of patients examined were 81735. Various eye diseases like cataract, glaucoma and diabetic retinopathy were diagnosed in the camp and underwent treatment at the base hospital free of cost.

CONCLUSION: Mobile Teleophthalmology services provided specialist eye care to the rural population of Tamil Nadu and reduced the incidents of blindness. The cost and patients time to travel was minimized.



## Yasuichi Kitamura

APAN  
ALS-Japan  
Japan

### Biography

Yasuichi Kitamura received the BS and MS degrees in Electrical Engineering from Waseda University in 1984 and 1986 and he received the PhD degree in Engineering from Kyushu University in 2010.

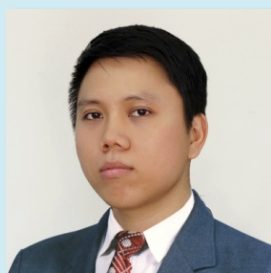
In 1989, he joined the Radio Research Laboratory (RRL, the former name of NICT) and, from October 1st, 2015, he became one of the members of TEMDEC. He has been one of the board members of APAN since 2013. He has been studying for the network traffic monitoring and also working for the coordination of the International relationship in APAN. He is also a co-chair of the ALS-Japan (icann At Large Structure Japan).



**Albert Au**  
University of Hong Kong  
Hong Kong

#### Biography

Mr. Albert Au, M.Sc. M.Phil. MIET is Senior I.T. Manager in the Faculty of Medicine, The University of Hong Kong. He has been working for the Faculty for more than 18 years. He has more than 10 years experience in telemedicine. Microwave, free space optics, fibre optics, and internet were adopted in doing telemedicine. Mr. Au leads a team of nine persons to provide technical support for the Medical Faculty and the Laboratory Animal Unit. Currently, Mr. Au works more in the projects of audio-visual systems, web-based applications.



**Cao Duc Minh**  
Vietnam National Agency  
Vietnam

#### Biography

Cao Duc Minh is a computer engineer, currently working in Vietnam research and education network center which was established in 2007. His main job is network management, manage and support member's activities. Minh has seven years' experience in teleconferencing. With experience in the field of audio-visual, he is currently involved in organizing of telemedicine in Vietnam, under the role as a member of medical working group of APAN. Minh is also an IT engineer at Vietnam National Agency for Science and Technology Information, working as a computer systems manager, organizing activities in science and technology.

#### Abstract

##### ***Title: Network in Vietnam***

8 years have passed since we officially launched VinaREN in Vietnam. We have achieved certain success, and lessons learned. There is no doubt that telemedicine working group is most active. Time flies, things change. Now we are facing challenges: funding, lack of activity of members, operational effectiveness. So here we are, share, listen and experience.



**Le Thanh Ni**  
Cho Ray Hospital  
Vietnam

#### Biography

Le Thanh Ni, MD. graduated from Pleven Medical University, Bulgaria. He is working at Cho Ray Hospital since 1991 as a physician of internal medicine and infectious diseases. While he was a deputy of general planning department and the head of the hospital information system, he was the key person in establishment of Cho Ray Hospital information system. Since 2009, he involved in the activities of telemedicine development in Vietnam. The current position is the head of department of media and clinical skills lab of Cho Ray Hospital, he actively contributed to the development of telemedicine activities in continuous medical training in southern Vietnam.





**Bani Lara**  
Advanced Science and Technology Institute  
Philippines

#### Biography

Bani Lara, a science research specialist at the Advanced Science and Technology Institute (ASTI), leads the network operations group of the Philippine Research, Education and Government Information Network. He has nine years of experience in working on Internet routing, IPv6 and multicast technologies in research networking. He also takes care of the routing infrastructure of the Philippine Open Internet Exchange (PhOpenIX). He earned his degree in Computer Science at the University of the Philippines, Los Banos.



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**Alvin M. de Gracia**  
Advanced Science and Technology Institute  
Philippines

#### Biography

Alvin M. de Gracia, graduated from HAU in 2007 with bachelor of science in computer engineering. currently a science research specialist at the Advanced Science and Technology Institute (ASTI), part of the network operations group of the Philippine Research, Education and Government Information Network. Takes care of the multimedia services such as streaming, conferencing and telemedicine. Also involve in development of unified communication project at ASTI.

#### Abstract

PREGINET is the country's only Research and Education Network (REN) that interconnects academic, research, and government institutions and hospitals (private and public), and has links to international RENs such as the Asia-Pacific Advanced Network (APAN), the Asian Internet Interconnection Initiatives (AI3), and the Trans-Eurasia Information Network 3 (TEIN3). The talk will give an update on the 3 Networks that ASTI is operating and the future plans of the group. Will share also some of the telemedicine activities done over the network.



**Tunggul Laksono**  
Brawijaya University  
Indonesia

#### Biography

Tunggul Laksono start worked at the Faculty of Medicine Beginning at 2000 as a network Engineer. Graduate from Diploma Computer Engineering at Brawijaya University at 1999, taking the training of Mikrotik MTCNA at 2010 and then MTCTCE at 2011. Right now handle computer network faculty of medicine Brawijaya University and also the Hotspot for internet Distribution in Saiful Anwar Hospital. Start using the device Video Conference began in 2007 using the Polycom PVX , and then in 2009 began using Polycom Qdx - 6000 , 2013 got an additional 1 Huawei ViewPoint 2014 Polycom HDX – 7000.



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## NIRAJ ACHARYA

Nepal Research and Education Network  
Nepal

### Biography

Mr. Niraj Acharya have completed Bachelor of Engineering in Information Technology from Cosmos College of Engineering and Management, affiliated with Pokhara University, Nepal in 2007. He has working experiences in the field of wireless networking, advance routing and switching, and video conferencing system and field of live streaming. His IT expertise is voluntarily used in the field of telemedicine in Nepal, especially associated with Nepal wireless Project and Kathmandu Model Hospital.



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## A K M Habibur Rahman

Bangladesh Research and Education Network (BdREN)  
Bangladesh

### Biography

AKM Habibur Rahman is the Chief Executive Officer of Bangladesh Research and Education Network (BdREN). He is engaged in implementation of BdREN under University Grants Commission of Bangladesh since 2013.

He graduated from Bangladesh University of Engineering and Technology in Electrical and Electronic Engineering in 1988. Afterwards he obtained Master of Business Administration degree from Institute of Business Administration, University of Dhaka in 1992. He entered Bangladesh Civil Service (Telecommunication) in 1991 and served for 21 years in Bangladesh Telegraph and Telephone Board/Bangladesh Telecommunications Company with different capacities in Telecommunication Staff College, Digital Telephony System, Internet and Data Communication System, Planning & Development wing and foreign-funded projects. He was holding the position of Director in Bangladesh Telecommunication Company Limited before joining BdREN.

He has versatile training on Telecommunication Engineering, Satellite Communication, Digital Transmission System, Digital Switching System, IP Network, ISP setup, Data Communication, Information Security and Convergence in Communication in home and abroad. He participated in overseas Seminars/Conferences/Exhibitions on Broadband Internet, Internet of Things, GSM, Video Conference Systems, Telecommunication and IT systems.

### Abstract

#### ***Ongoing Activities and Infrastructure Planning for Telemedicine at BdREN***

Bangladesh Research and Education Network (BdREN) is a high-speed umbrella network for higher educational institutes of Bangladesh to meet specialized requirements of their academic and research activities. The network is connected with Trans-Eurasia Information Network (TEIN) since 2012 to exchange research and education data among the connected institutions. The network is currently undergoing its second phase. In this phase, all-fiber network connectivity to 34 public universities will be operational by end of 2015. The private universities will be connected to the network in course of time. In the third phase, which is being planned to start in the first quarter of 2016, medical colleges and research institutes will be connected with BdREN to facilitate smarter telemedicine in Bangladesh.