

Dr. Chin-Hui Yang

Director, Division of Acute Infectious Diseases, Centers for Disease Control, Ministry of Health and Welfare, R.O.C. (Taiwan)

Taiwan's Experience in the Fight with COVID-19

Dr. Chin-Hui Yang began by elaborating the lessons learned from the SARS epidemic, which enabled Taiwan to respond promptly to the COVID-19 pandemic. He explained how the government implemented non-pharmaceutical interventions during COVID-19, including quarantine, mask-wearing, and border control, to prevent virus transmission. Dr. Yang then highlighted the need for post-pandemic refinement in areas such as epidemic intelligence, community prevention, and healthcare system maintenance. The pandemic serves as a reminder that diseases have no borders, underscoring the importance of enhancing regional cooperation.

Prof. Hsiu-Hsi Chen

Professor, Institute of Epidemiology and Preventive Medicine, National Taiwan University, R.O.C. (Taiwan)

One Health and One Digital Health to Prevent Emerging Infectious Diseases: COVID-19 Pandemic Illustrations

Prof. Hsiu-Hsi Chen discussed the shift from evidence-based medicine to a metaverse health system, emphasizing the impact of climate change and global warming on vector transmission across animal species and high-risk populations. One Digital Health (ODH) plays a central role in this ecosystem, encompassing education, prediction, detection, control, and ecosystem improvement. Prof. Chen highlighted the IoT interface's significance in predicting dengue fever risk by integrating weather data, weekly case numbers, and Ovitrap positivity rates.

Parallel Session 2**Teledentistry in Asia Pacific Countries - A Sustainable Solution to Oral Health for All****Moderator:** Prof. Eddie Hsiang-Hua Lai, Director-General, Department of Oral Health, Ministry of Health and Welfare, R.O.C. (Taiwan)**Speakers:** Prof. Guang Hong / Prof. Liang Lin Seow / Prof. Jae-Sung Kwon**Prof. Guang Hong**, Vice-Dean, Graduate School of Dentistry, Tohoku University, Japan**The Digital Transformation in Health Care and Education Setting**

Prof. Guang Hong served as the opening speaker in this session. He presented his research on digital transformation in healthcare and dentistry education. Prof. Hong emphasized that "digital transformation is not merely digitalization" and underscored the importance of interdisciplinary collaboration in advancing teledentistry and its educational aspects.

Prof. Liang Lin Seow, Dean, School of Dentistry, International Medical University, Malaysia**Journey Towards Promoting Teledentistry: Building the Competencies in Undergraduate Programme**

Prof. Liang Lin Seow discussed the significance of dental and oral health and the imperative need for the development of teledentistry, encompassing associated policies and educational training. Prof. Seow acknowledged that the concept of teledentistry has been in existence for nearly three decades. However, as an educator, he emphasized the importance of implementing relevant policies and comprehensive training programs to support its effective implementation.

Prof. Jae-Sung Kwon

Assistant Professor and Chair, Department and Research Institute of Dental Biomaterials and Bioengineering, Seoul, Republic of Korea

Quality Assurance of Dental Education in Post- COVID On-line Learning Environment: Cases in Korea

Prof. Jae-Sung Kwon addressed the audience, discussing the promotion of teledentistry. He began by providing insights into the state of dentistry education in Korea and the transition to online learning amid the COVID-19 pandemic. Prof. Kwon concluded his speech by appealing to the attendees, emphasizing the necessity of international cooperation to attain the shared objectives in teledentistry.

The VR Experience

The representative from the Industrial Technology Research Institute introduced a range of innovative interactive systems aimed at enhancing long-term care. The systems showcased during the presentation included a chat-GPT based chat doll, a vein finder to simplify injections, a VR device for remote hands-on training and machine installation, and the "mirror fit," which identifies weaker muscles in the senior population to aid in training.



2023 Global Health and Welfare Forum in Taiwan

Health for All: Strengthen Well-being through Collaboration and Empowerment for the Attainment of New Normal



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Forum Date : Day 1 Tue. NOV. 7, 2023**Forum Venue : Chang Yung-Fa Foundation International Convention Center****Opening Address****Dr. Jui-Yuan Hsueh** Minister, Ministry of Health and Welfare, R.O.C. (Taiwan)**Dr. Chien-Jen Chen** Premier, Executive Yuan, R.O.C. (Taiwan)

Dr. Jui-Yuan Hsueh: Warmly welcomed all participants to the 2023 Global Health and Welfare Forum in Taiwan, marking its 19th anniversary as the premier health forum in Asia. This year's forum centers on addressing the post-pandemic era, fostering international partnerships, and harnessing digital technologies in healthcare. Dr. Hsueh emphasized the significance of a roundtable where the health ministers will exchange pandemic response experiences and strategies for sustainable development goals. A joint declaration will cap off the event, underlining the commitment and international responsibilities of all participating nations in healthcare. Dr. Hsueh underscored Taiwan's indispensable technological prowess and healthcare expertise in the global arena, reaffirming that "Taiwan can help and Taiwan is helping." Dr. Hsueh extended a warm welcome to the participants from 26 countries and 23 ministers and senior officers from around the world. Officially inaugurating the 2023 Global Health and Welfare Forum in Taiwan.

Dr. Chien-Jen Chen: Extended a warm welcome to all Forum participants in a pre-recorded video. He emphasized the vital connection between people's health and global security and peace. The COVID-19 pandemic demonstrated the significance of robust global health governance. Dr. Chen stressed that in the post-pandemic era, international collaboration to rebuild in a more resilient manner toward new normal is paramount. He highlighted the urgency of solidarity and cooperation among nations to safeguard global health security, which is the core objective of the Forum. As the host, Taiwan has demonstrated its belief in "a friend in need is a friend indeed" and its capability to make substantial contributions towards achieving health-related sustainable development goals (SDGs) globally. Dr. Chen appealed to Taiwan's international friends to support its participation in various international organizations and activities, recognizing the valuable role it plays in the global health community.



Keynote Speeches



Moderator: Li-Feng Lee Deputy Minister, Ministry of Health and Welfare, R.O.C. (Taiwan)



Speakers: Prof. Ganglip Kim / Prof. Jozef Suvada / Prof. Jung Yul Park

Prof. Ganglip Kim, Professor, Yonsei University, Republic of Korea

COVID-19 and Safer Future - Lessons and Challenges of the Global Health

Prof. Ganglip Kim opened the keynote session by sharing Korea's insights and experiences in responding to COVID-19 and discussing the lessons and challenges in global health post-pandemic. He used statistical analysis to emphasize COVID-19's severity, stressing preparedness and citing Korea's response measures, like openness, transparency, and the "3 Ts" strategy. He underlined the importance of preparedness, equitable vaccine access, essential devices, and international cooperation for global safety. Prof. Kim outlined challenges and emphasized the need for global collaboration, stating, "we cannot say the future is safe unless no country is left behind."

Prof. Jozef Suvada, Professor, St. Elizabeth University of Public Health and Social Science (Slovakia), McMaster University (Canada), Scranton University (US), St. Jude Research Children Hospital (US)

(Re)thinking Research for Tackling Global Health Problems and Solutions

Prof. Jozef Suvada stressed the importance of rethinking global health research. He noted researchers' failure to reference earlier studies, leading to a waste of resources, and hence introduced the Evidence-Based Research (EBR) approach. EBR emphasizes systematic reviews of prior studies and end-user perspectives for efficient research. Strengthening research systems and data systems globally is essential. He highlighted the necessity of multifaceted research to address complex challenges and promote community action in disease prevention under appropriate policies. Collaboration between research and policy development is crucial, with a focus on building relationships to ensure evidence-based solutions.

Prof. Jung Yul Park, Chair of Council, World Medical Association (WMA)

Call to Action for Implementation and Integration of Climate Medicine into Continuum of Medical Education Curriculum

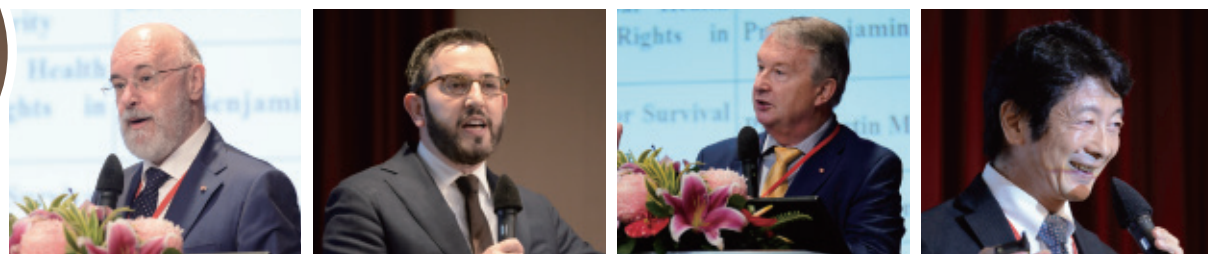
Prof. Jung Yul Park highlighted climate change as a global health crisis, causing extreme weather and worsening medical conditions and spreading infectious diseases. Emissions responsible for global warming contribute to more than one quarter deaths from heart attack, stroke, lung cancer and chronic respiratory disease. Despite global efforts, we're rapidly approaching dangerous temperature levels. Urgent, innovative strategies are needed. He advocated integrating Climate Medicine into medical education, addressing heat-related disorders, zoonotic diseases, and infections at all levels. Prof. Park called on healthcare professionals and educators to act against climate change-related crises.



Plenary 1 Partnership and Networking in Global Health Governance



Moderator: Prof. Kung-Yee Liang Academician, Academia Sinica, R.O.C. (Taiwan)



Speakers: Dr. Clemens Martin Auer / Prof. Benjamin Mason Meier / Prof. Martin McKee / Dr. Osamu Kunii

Dr. Clemens Martin Auer, President, European Health Forum Gastein

Tackling Threats and Challenges of Modern Welfare Systems of Well-Being and Solidarity

Dr. Clemens Martin Auer discussed modern welfare systems and challenges in achieving SDGs, particularly Universal Health Coverage. He addressed that even modern welfare states that consider "healthcare is social rights," are under tremendous pressure in the permacrisis faced in politics, the economy, society, and the climate, necessitating urgent debates on sustainable funding for global healthcare systems. Dr. Auer pointed out how he cannot emphasize more that "there is no global health policy without Taiwan sitting at the table."

Prof. Benjamin Mason Meier,

Professor, Global Health Policy, University of North Carolina at Chapel Hill, United States of America

Human Rights Challenges in Global Health Governance: Advancing Human Rights in Ongoing Global Health Law Reforms

Prof. Benjamin Mason Meier discussed human rights challenges in global health governance, emphasizing their pivotal role. However, the limitations of human rights during the COVID-19 response underscore the need to strengthen global health law obligations. Encouragingly, ongoing reforms in global health law, including International Health Regulations (IHR) amendments and a new pandemic accord, offer a vital opportunity to enhance human rights in global health governance. This involves addressing human rights limitations in the COVID-19 response and establishing human rights principles in public health emergencies.



Prof. Martin McKee,

Professor, European Public Health, London School of Hygiene & Tropical Medicine, United Kingdom

One Health, One World: Structures for Survival in a Dangerous World

Prof. Martin McKee stressed the importance of the One Health concept, ensuring the well-being of humans, animals, and plants. Issues like antimicrobial resistance, food security, and climate change transcend national, ministerial, organizational and professional boundaries

and require a unified approach. One Health encompasses human, wildlife, domestic animal, plant, and environmental health. The COVID-19 pandemic highlighted the interconnectedness of these components. Those in positions of influence must embrace and implement One Health to ensure humanity's survival. It's the only path forward for our species.

Dr. Osamu Kunii,

CEO, Global Health Innovative Technology (GHIT) Fund

Partnership for Innovations to Fight Infectious Diseases and Leave No One Behind

Dr. Osamu Kunii shared his Global Fund experiences and global collaboration. Japan, during the 2000 G8 meeting, championed infectious disease control support, leading to the creation of the Global Fund. Beyond COVID-19, we must address other infectious diseases, like Neglected Tropical Diseases (NTDs), impacting 2 billion people globally, mainly in low and middle-income countries. Dr. Kunii's group's ambitious 100 Days Mission (100DM) aims to provide vaccines in 100 days to save 100,000 lives. He outlined key steps: data sharing, knowledge transfer, clinical trial alignment, approvals, and boosting local manufacturing.

Parallel Session 1

Global Health Security: To Build Sustainable Preparedness for and Response to the Next Pandemic

Moderator: Dr. Jen-Hsiang Chuang, Director-General, Centers for Disease Control, Ministry of Health and Welfare, R.O.C. (Taiwan)



Speakers: Dr. Nobuhiko Okabe / Mr. Matthew P. Shearer / Dr. Chin-Hui Yang / Prof. Hsiu-Hsi Chen

Dr. Nobuhiko Okabe

Director General, Kawasaki City Institute for Public Health, Japan

The Experiences of COVID-19 and Future Challenges for Infectious Disease Control in Japan

Dr. Nobuhiko Okabe shared Japan's responses to pandemics, drawing on experiences from 2003 (SARS), 2009 (H1N1), 2009 (Influenza), and 2023 (COVID-19). These historical events underscore the importance of pandemic preparedness. Dr. Okabe outlined the new governance structure for infectious disease control in the Japanese government, including the organizational structure of a new expert organization, which is currently under discussion. He also discussed Japan's infectious disease prevention plan, encompassing strategies like local outbreak prevention, data collection, improving medical care and transportation systems, enhancing healthcare centers, and implementing comprehensive policies and training programs.

Mr. Matthew P. Shearer

Senior Associate Researcher, Johns Hopkins Center for Health Security, Bloomberg School of Public Health, United States of America

Investing in the Future: Reframing the Cost of Pandemic Preparedness

Mr. Matthew P. Shearer stressed the need to better communicate the importance of pandemic preparedness, especially in light of limited funding. He emphasized framing preparedness as an investment. Mr. Shearer pointed out that annual pandemic preparedness costs \$30 billion, whereas COVID-19's global economic impact was \$35 trillion, equivalent to funding pandemic preparedness for 1,176 years. This highlights the cost-effectiveness of preparedness over response. He emphasized demonstrating the immediate value of preparedness and refining metrics to assess progress effectively during implementation.