ISY1 Application of new technology to telemedicine

Chair **Hiroki Matsumoto** Maebashi Institute of Technology

Chair **Tomomi Ogawa** Tokyo Denki University

Recently, the progress of communication technology and information processing technology which support remote medicine, has been remarkable. For example, in communication technology, 5G technology can be constructed. In information processing technology, we have established individual technologies such as AI and independent component analysis for diagnosis support.
On the other hand, it is difficult to say that these new technologies have been fully applied to telemedicine. However, it is desired that these be used in each country and region.
Therefore, in this session, first, we will introduce new technologies that are expected to be applied to telemedicine. Next, under the world situation of corona vortex, we will discuss the ideal way of the telemedicine system that matches the actual situation of the country and region in the future.

ISY1-1 Reimagining the delivery of care model – looking inside the brick and mortar via a digital window.

Thomas Foley AMD Global Telemedicine

ISY1-2 Leveraging artificial intelligence and other technologies for mitigating challenges faced by citizens with physical disabilities

Vimal Wakhlu Telecommunications Consultants India

ISY1-3 Sharing clinical information with patients as a data hub: How can we extract medical information from hospitals?

Akinori Moriichi

Division of Specific Pediatric Chronic Diseases, Research Institute, National Center for Child Health and Development

ISY1-4 Effectiveness of acute disease pre-detection byvital data telemonitoring

○ **Naoki Kobayashi[1], Hinako Okazaki[2], Masahiro Ishikawa[1], Satoki Homma[3,4]**

1）Faculty of Health and Medical Care, Saitama Medical University
2）Shijinkai Group Ken-o Tokorozawa Hospital
3）Faculty of Nursing and Medical Care, Keio University & Keio Research Institute at SFC
4）Health Care Center of Saitama Medical Center

ISY1-5 DOCOMO 5G Status and Its Application to Advanced Telemedicine

Yuji Aburakawa 6G Laboratories, NTT DOCOMO, INC.

ISY2 How have telepsychiatry practices around the world changed due to the COVID-19 pandemic?

Chair **Taishiro Kishimoto** Department of Neuropsychiatry, Keio University School of Medicine

In order to reduce the risk of infection during the COVID-19 pandemic, the use of telemedicine is increasing. Specifically, in the field of psychiatry, where care providers and patients interact mainly in the form of face-to-face conversations, telepsychiatry is playing an especially important role in overcoming difficulties associated with the pandemic. The presenters in this symposium have reviewed telemedicine regulation changes during the pandemic (Psychological Medicine, in press) in 17 countries.
In this symposium, representatives from Italy, India, the USA, Canada, and Japan will speak about the history of telepsychiatry in their respective countries, how regulations have been relaxed due to the pandemic, the practical application and settings of telepsychiatry, and other recent changes in telepsychiatry related to COVID-19. We hope this forum provides an opportunity to discuss each country's differing insurance systems, infection rates, and attitudes toward telepsychiatry, as well as provide information on promising recent telepsychiatry developments overall.

ISY2-1 COVID-19 response: An overview of a survey of 17 countries and how the introduction of telemedicine in Japan is progressing

Taishiro Kishimoto Department of Neuropsychiatry, Keio University School of Medicine

ISY2-2 Virtual mental health care: Beyond access to quality of care

Allison Crawford Department of Psychiatry, University of Toronto

ISY3 Health support challenges through telenursing

Chair **Tomoko Kamei** Graduate School of Nursing Science, St. Luke's International University, Tokyo
Chair **Birthe Dinesen** Department of Health Science and Technology, Aalborg University

Telenursing is a part of Telehealth and support people/ patients from distance. Telenursing could efficiently provide people/ patients' monitoring and triage health status, and give teleconsultations & telementoring.
This symposium is an opportunity to discuss present and future telenursing as well as under the COVID-19 pandemic.

ISY4 The current use and the prospect of location flexible clinical trials

Chair **Masahiro Okura** Tokyo University

ISY4-3 **Beyond COVID-19: New ways of conducting clinical trials**

Atsushi Kitamura Pfizer R&D Japan

ISY4-4 **Bringing trials closer to the patient through digital capabilities and enabling services such as telemedicine, mobile nursing and direct to patient IMP delivery**

Angeli Dogra, Frederique Goulart Novartis Pharma AG

ISY5 The impact of COVID-19 on medical education and communications

Chair **Tomohiko Moriyama** Kyushu University Hospital

COVID-19 pandemic changed our lifestyles. For prevention of further spread, in-person meetings have been dramatically replaced by remote meetings everywhere in the world. Although medical institutes should keep open for taking care of patients even in this tough situation, many medical personnel attempted new challenges to protect patients, medical staffs, medical students, and ourselves from COVID-19. In this session, medical doctors, educators and engineers will talk what they have done for clinical practice and medical education under restrictions of daily living. We hope to discuss what "new normal" is in medical field.

ISY5-1 **Remote education and telemedicine in NTU College of medicine and hospital during COVID-19 pandemics**

Lu-Cheng Kuo

Department of Internal Medicine, National Taiwan University College of Medicine

ISY5-2 **Telemedicine in the Philippines**
Digital transformation in the era of COVID-19

Vittoria Vanessa Velasquez

St. Luke's Medical Center College of Medicine

ISY5-3 **Telemedicine in medical education at INCMNSZ**
Virtual medical education

Miguel A. Tanimoto

National Institute of Medical Sciences and Nutrition Salvador Zubiran (INCMNSZ), Mexico City

ISY5-4 **Build, collaborate and disseminate knowledge networks**
How to construct, sustain and pave the evolution of health collaborative networks supported by regional and national research and education networks

Luiz Ary Messina

RNP Rede Nacional de Ensino e Pesquisa, ABTms Associação Brasileira de Telemedicina e Telessaúde

ISY5-5 **Remote medical education: Application in COVID-19 era**

○ **Kuriko Kudo, Tomohiko Moriyama, and Shuji Shimizu**

International Medical Department, Kyushu University Hospital

ISY6 Application of telemedicine to support tobacco cessation

Chair **Ikuo Tofukuji** Takasaki University of Health and Welfare

In 1997, Dr. Yuko Takahashi established the Japanese telemedicine smoking cessation program Kinen Marathon. Kinen Marathon is based on email communication and mail magazine services. It supports many people in their effort to quit and abstain from smoking and has made a large community of former smokers.
In 2018, the Ministry of Health, Labour and Welfare approved the application of online patient care to tobacco cessation therapy and the related medical insurance.
In 2020, the Ministry of Health, Labour and Welfare approved Japan's first digital therapeutic program for tobacco cessation, CureApp SC, which was developed by Dr. Kohta Satake.
Digital therapeutics will be widely used in the treatment of other conditions, including lifestyle-related diseases, in the near future.
In this symposium, we will discuss the application of telemedicine and digital therapy to tobacco cessation programs with special speakers invited from the United States, Korea, and Japan. Please join this symposium if you are interested in learning more about the new methodologies of modern medicine.

ISY6-1 Application of telemedicine to support tobacco cessation

Ikuo Tofukuji Takasaki University of Health and Welfare, Takasaki, Gunma

ISY6-2 Tobacco, alcohol, drug and digital therapeutics - The case of MoHW & MFDS in South Korea

Sean G. Kang WELT Corporation,

ISY6-3 The use of digital therapeutics in smoking cessation : Current trends in the united states

Ravi S. Nunna Swedish Neuroscience Institute, Seattle, WA

ISY6-4 Clinical evidence of telemedicine and digital therapeutics for smoking cessation in Japan

Kohta Satake

Department of Respiratory Medicine, Japanese Red Cross Medical Center

CureApp Institute, CureApp, Inc.

ISY7 Updates in tele-cardiology

Chair **Alexandru Mischie** Centre Hospitalier de Montluçon
Chair **Dan Gaita** University of Medicine Victor Babes

Our webinar was hosted by Professor Dan Gaita, FESC, Vice President of Romanian Society of Cardiology, Board Member of European Society of Cardiology, Board Member of European Heart Network, University of Medicine Victor Babes, Romania and Dr. Alexandru Mischie, MD, PhD, FAHA, FESC, Head of Interventional Cardiology Department, Centre Hospitalier Montluçon, France, Chair of the Tele-Cardiology Working Group ISfTeH

ISY7-1 Updates in hypertension

Stefano Omboni

Italian Institute of Telemedicine, Italy

Scientific Department of Cardiology, Sechenov First Moscow State Medical University, Moscow, Russian Federation

ISY7-2 Updates in cardiac care and COVID-19

Daryna Chernikova

Cardiology Department, City Hospital, Kramatorsk, Ukraine

ISY7-3 Updates in heart failure

Mihai Trofenciuc

Vasile Goldis Western University of Arad, Romania