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(국문/영문) 강연제목: 디지털치료기기 현황 및 발전 방향 / Current status and future perspectives of digital therapeutics

Abstract(영문): Digital Therapeutics (DTx) refers to software medical devices that provide evidence-based therapeutic interventions to patients to prevent, manage, and treat medical disorders or diseases. DTx can be used not only for mental and nervous system diseases such as drug addiction and depression but for various illnesses, including asthma and diabetes. Compared to conventional drugs, it takes less time and cost to develop digital therapeutics because it does not require pre-clinical trials. This lecture introduces the definition DTx and the domestic and international status, and look forward at the future development direction of digital treatment devices. In addition, this lecture examines the current state of DTx regulation in each country and suggests regulatory reform measures to revitalize the DTx industry in Korea.

Brief Biosketch

Hangsik Shin received the B.S., M.S., and Ph.D. degrees in electrical and electronic engineering from the Department of Electrical and Electronics Engineering, Yonsei University, Seoul, South Korea, in 2003, 2005, and 2010, respectively. In 2010, he joined at the Digital Media and Communication Research and Development Center, Samsung Electronics, Co. Ltd., South Korea. From 2013 to 2022, he was an assistant and an associate professor with the Department of Biomedical Engineering, Chonnam National University, Yeosu, Republic of Korea. Since 2022, he has been an associate professor with the Department of Convergence Medicine, Asan Medical Center, University of Ulsan College of Medicine, Seoul, Republic of Korea. His research interests include biomedical signal processing, medical data analysis, digital healthcare including mobile healthcare technologies. Dr. Shin was a recipient of the Korean Institute of Intelligent System Young Investigator Award in 2016, the Lutronic Young Biomedical Engineer Award in 2018, and the Korean–American Biomedical Engineering Society Awards in 2019. Dr. Shin is a Life Member of the Korean Society of Medical and Biological Engineering (KOSOMBE).