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국문 강연제목: 임상시험에서 의료기기와 인공지능기술의 활용 사례

영문 강연제목: Use of Medical Devices and Artificial Intelligence Technology in Clinical Trials

Abstract

As technologies such as mobile network and artificial intelligence (AI) have developed, attempts to apply the latest technological advances are continuing at clinical trial sites. In this presentation, cases of using wearable devices and AI technology at the Seoul National University Hospital Clinical Trials Center (SNUH-CTC) are introduced. The first is a technology that monitors the health of patients far from hospitals. Cardiovascular disease may occur due to the side effects of test drugs, and wearable electrocardiograph can be utilized to evaluate the occurrence of heart disease during clinical trials. The SNUH-CTC developed the Smart Clinical Trial Platform to implement the function of remotely monitoring the patient's electrocardiogram (ECG), and a deep learning model to detect arrhythmias from single-lead ECG. The second is an AI-based medication monitoring technology. A smartwatch has been developed to analyze patients' medication behavior and evaluate whether they take drugs on time. The SNUH-CTC evaluated the possibility of using such digital technology by conducting clinical trial using the InHandPlus smartwatch which was developed for medication monitoring.

Brief Biosketch

저는 현재 서울대학교병원 임상시험센터에서 연구교수로 근무하고 있습니다. 저의 주요 업무는 웨어러블 기기, 모바일 어플리케이션, 클라우드 등을 활용하여 분산형 임상시험을 수행하기 위한 임상데이터 수집 및 관리 시스템 개발입니다.

I am currently working as a research professor at the Seoul National University Hospital Clinical Trials Center. My main work is to develop a clinical data collection and management system to conduct decentralized clinical trials using wearable devices, mobile application, and cloud server.