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A Clinician's Journey into Medical AI: Developing an ECG Analysis App from Clinical Experience

Abstract(영문):

With over two decades of experience as an emergency physician, I have often witnessed how timely and accurate ECG interpretation can make a critical difference in patient outcomes. This realization led me to explore how technology could better support frontline decision-making.

In this talk, I will share the story behind the development of ECG Buddy, an AI-based ECG analysis application created from daily clinical needs rather than from a technology-first approach. I will discuss the challenges and learnings along the way — from early prototype to clinical validation, regulatory clearance, and practical implementation in hospitals. My aim is to offer a clinician's perspective on how AI can complement, rather than replace, medical expertise, and how small, persistent steps can turn an idea from the bedside into a meaningful healthcare tool.

Brief Biosketch (간단한 이력, 연구/대외활동 소개,국문/영문)

저는 임상경험 20 년차인 응급의학과 의사입니다. 전문의 취득 후 분당서울대병원에서 계속 근무해왔고, 지금은 응급의학과 교수로 근무하고 있습니다. 원래 소생의학을 하다가 최근 심전도 분석 쪽으로 전향하여 ECG Buddy 라는 심전도 분석앱을 만들고 (주)알피를 창업하여 스타트업 대표 업무를 병행하고 있습니다.

Joonghee Kim, MD, PhD is a Professor of Emergency Medicine at Seoul National University Bundang Hospital. With over 20 years of clinical experience, he founded ARPI Inc., a medical AI company developing ECG Buddy, an AI-powered ECG analysis tool. His current work focuses on applying artificial intelligence to support clinical decision-making and improve accessibility to cardiovascular diagnostics in real-world care settings.