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End to hypoglycemia: Non-invasive glucose monitoring and insulin dosing using AI

Abstract:

Managing diabetes requires accurate glucose monitoring and precise insulin dosing, which traditionally involve invasive methods. This study introduces InsuCal, an innovative non-invasive solution that integrates wearable ECG technology with advanced AI/ML algorithms to grade glucose levels and recommend insulin doses. By utilizing ECG data from wearable, handheld, or standard 12-lead devices, patients can receive personalized insulin guidance without finger pricks or complex calculations.

The system effectively replicates the sliding scale model of short-acting insulin while minimizing patient discomfort and errors. This novel approach has the potential to transform diabetes management, improving patient adherence and clinical outcomes.

Biography

Abhijit Ray is an Interventional Cardiologist and Heart Failure Specialist based in New Delhi, India. He has authored multiple research articles in international journals and holds a U.S. patent, with two additional patents pending in India. His work focuses on integrating healthcare with Artificial Intelligence, and his recent invention, the Heart Failure Predictor, has gained global recognition.