

AI-POWERED HYPOGLYCEMIA PREDICTION



Collaborating with AI to Improve Patient Care

Welcome to AI in healthcare — where cutting-edge predictive algorithms and deep learning techniques join forces with human expertise to identify patterns and risk factors hidden within the EHR's real-time medical data. Through the use of neural networks trained on data available in your EHR, TransformativeMed enables the early detection of hypoglycemia and the timely intervention of appropriate treatments.

From R&D to the Real-World

In the dynamic and high-stakes environment of an inpatient hospital setting, the seamless translation of scientific advancements and cutting-edge technology into practical, user-friendly solutions becomes not just a luxury, but an imperative. The rapid integration of these innovations into existing healthcare workflows is crucial to enhance efficiency, reduce the risk of medical oversights, and ultimately save lives. TransformativeMed is your experienced and capable partner in tailoring state-of-the-art tools and systems to the unique needs of physicians, nurses, and support staff. We can ensure that technology serves as an ally in your pursuit of patient well-being, rather than a source of complexity or frustration. In this way, the successful marriage of science and real-world applicability holds the key to unlocking a new era of healthcare excellence — one in which the power of human expertise is amplified by the transformative potential of artificial intelligence.

AI and Clinicians

AI tools in healthcare are designed not to replace physicians or nurses, but to serve as their steadfast allies in the quest for exceptional patient care. By providing data-driven insights, automating routine tasks, and enabling continuous monitoring of patient populations, these advanced technologies empower healthcare professionals to make better-informed decisions and focus on what they do best — caring for their patients.

Enhance Your EHR

While numerous academic studies have demonstrated the potential to accurately predict hypoglycemia, they often rely on data sources not typically found in Electronic Health Records (EHR), such as continuous glucose monitoring. TransformativeMed has successfully brought AI-powered hypoglycemic prediction into the realm of the EHR, utilizing data that already exists in the EHR and integrating it into the CORES Platform designed for seamless, workflow-compatible utilization.

Inpatient Hypoglycemia Prediction

TransformativeMed has achieved an impressive AUROC of 0.91 for predicting hypoglycemia with a two-hour prediction horizon. This metric demonstrates the effectiveness of the TransformativeMed model in identifying hypoglycemic events. But what exactly does AUROC mean? The Area Under the Receiver Operating Characteristic (AUROC) is a measure of an AI model's accuracy, specifically its ability to correctly classify true positives (real hypoglycemic events) against false positives (incorrectly identified events). An AUROC of 0.91 means that 91% of the time, the model can accurately distinguish between patients who are genuinely at risk of hypoglycemia and those who are not, making it a powerful tool for healthcare professionals to intervene proactively and mitigate potential complications.



Receiver Operating Characteristic

