

Embedding Prevention: Digital Innovation and AI to Transform Patient Safety



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Tuesday, April 7, 2026
12:00 – 1:00 PM
BMI Classroom 4004
Woodruff Memorial Research Building

Or

Join us on Zoom link:
<https://zoom.us/j/91958697448>



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Abstract: Preventable patient harm remains a major challenge despite widespread adoption of electronic health records. This seminar will present a program of research that leverages clinical insight, data science, and human-centered design to develop digital tools that make safety risks visible and actionable. Through four case studies, Fall TIPS, CONCERN, DOVE, and the ongoing OPTIONS trial, Dr. Dykes will illustrate how workflow-integrated clinical decision support, artificial intelligence, and electronic clinical quality measures can detect risk earlier, engage patients and clinicians, and prevent harm across care settings. The talk will highlight lessons in implementation, scalability, and the role of informatics in translating frontline clinical knowledge into deployable solutions that improve patient safety.

Biography: Patricia C. Dykes, PhD, MA, RN, FAAN, FACMI is Professor and Executive Director of the Center for Data Science at the Nell Hodgson Woodruff School of Nursing at Emory University and Director of Patient Safety and Innovation for Emory Healthcare. Dr. Dykes is an internationally recognized leader in clinical informatics and patient safety whose research focuses on using artificial intelligence, data science, and human-centered design to prevent patient harm and improve healthcare quality. She has led multiple federally funded studies developing digital safety innovations, including the Fall TIPS fall-prevention program, the CONCERN early warning system, and the DOVE diagnostic safety measure and OPTIONS to improve bone health in older community dwelling adults post lower limb fracture. She is a member of the National Academy of Medicine, Fellow of the American Academy of Nursing and the American College of Medical Informatics.