

From Readiness to Sustainable Use: Leveraging Implementation Science Strategies for Artificial Intelligence, Wearables and Digital Health Equity in Psychiatry

Participants:

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Symposium Synopsis:

Digital mental health interventions including artificial intelligence (AI) and wearables have shown promise for improving diagnostic precision, continuous monitoring, and clinical decision making. However, few technologies are sustainably integrated into routine clinical practice due to unaddressed implementation barriers, workflow challenges, and digital health disparities. To bridge this gap, healthcare systems must leverage multi-pronged strategies across the implementation continuum. This symposium brings together four implementation perspectives which will explore factors that influence implementation of AI and wearables from a patient, clinician, and system-level perspectives: 1. System Wide AI Implementation: Examining the implementation of AI-enabled clinician decision support systems to drive compassionate, patient-centred care. 2. Wearable Implementation: Describing barriers and facilitators, and strategies to implementing wearables into inpatient mental health settings. 3. Inpatient Wearables Deployment: Understanding the feasibility, impacts to workflows, analytical pipelines, and implementation considerations required for wearable implementation in inpatient psychiatry. 4. Patient Digital Literacy and Equity: Exploring how AI and digital literacy amongst patients with mental health conditions can be improved to address digital proficiency. Together, these presentations will illustrate how implementation science can be leveraged to overcome challenges to using digital mental health interventions such that they can contribute to delivering compassionate and clinically appropriate care.