

## 11<sup>th</sup> Annual Conference on the Science of D&I

### Areas of Focus

#### Behavioral Health

- Novel strategies for multi-level de-implementation of unproven behavioral health interventions
- Innovative research approaches to promote accessibility, adoption, uptake, implementation, sustainability, and scale up of evidence-based practices in behavioral health
- Use of implementation strategies for behavioral health that ensure engagement of key stakeholders including patients, decision-makers and healthcare organizations
- Studies of implementation designs that address the complexities in behavioral health including contextual factors, multifaceted interventions and patient comorbidities
- Studies that utilize type I, II or III hybrid effectiveness-implementation research designs in behavioral health
- Innovative implementation studies designed to improve behavioral health outcomes among diverse, vulnerable, and underserved populations around the globe

#### Big Data and Technology for Dissemination & Implementation Science

- Innovative strategies to use person-generated health data for implementation research
- New approaches to aggregate and/or analyze big data from large, diverse databases used for dissemination research
- Studies that use innovative communications technologies to support engagement among clinicians, patients and caregivers,
- Studies that use artificial intelligence to improve care coordination and continuity of care
- Systems-based approaches, including incentives to change organizational behavior and culture, to support data or information sharing

#### Building the Future of D&I Science: Training, Infrastructure, and Emerging Research Areas

- Building capacity (e.g., training programs, implementation laboratories) for the next generation of D&I researchers
- Innovative approaches and infrastructure to support the use of evidence-based implementation strategies
- Studies on selecting and testing strategies for scaling up interventions
- Studies of the systematic adaptation of interventions, including pragmatic measures, innovative designs, and dynamic outcomes
- Studies focused on measures, methods, and designs for research on de-implementation

#### Clinical Care Settings: Patient-Level Interventions

- Studies that develop and / or test implementation strategies that support D&I of effective patient-level interventions, especially those assessing which strategies work best with different contexts, patient groups, and diseases. Particular attention to the gray area between implementation strategies and the evidence-based practice is of interest.
- Studies that develop and/or test approaches to adapt patient-level interventions and / or implementation strategies to diverse contexts, and innovative methods for patients, consumers, and stakeholders throughout the adaptation process
- Studies that focus on how to create consumer-led demand (or 'pull') for evidence-based practices
- Studies that develop and/or test health information technology-based patient-level interventions, and optimal strategies for implementing them; for example, mHealth, eHealth, patient portals, shared decision-making tools, and data visualization methods for patient-facing health information

- Innovative implementation studies designed to improve health outcomes among diverse, vulnerable, and underserved patients

### **Clinical Care Settings: System-Level Interventions**

- Understanding contextual health system facilitators and barriers to implementation of complex interventions or de-implementation of ineffective or unproven practices
- Providing health system leadership with timely economic evaluations of health system implementation activities
- Studies examining key factors for efficient adaptation to changes in evidence-based clinical practices as new evidence emerges within health systems
- Studies using novel longitudinal methods to examine the dynamics of change over time during implementation of evidence-based interventions within health systems
- Understanding how health system infrastructure investments in areas such as data capacity, workforce, patient engagement, and culture can support both research and implementation of evidence.

### **Global Dissemination & Implementation Science**

- Building capacity for dissemination and implementation research in LMICs (at the individual and institutional levels)
- Strengthening understanding of the important role of context and enablers/disablers in dissemination and implementation research in LMICs, including in social and health systems.
- Adapting or developing dissemination or implementation research frameworks and models to the LMIC context
- Understanding scale up and sustainability in dissemination and implementation research: learnings from resource constrained settings
- Enabling and researching reverse innovations from LMIC to high income settings: Example and learnings

### **Health Policy Dissemination & Implementation Science**

- Studies of implementation, sustainment, and/or de-implementation of local, state, regional, or national policies fostered by public or private decision-makers, including, but not limited to, major changes in healthcare delivery systems. Of particular interest are policy efforts to coordinate care, payment models that reward performance rather than volume, and approaches to integrating primary care and behavioral health.
- Evaluations of initiatives and dissemination interventions to promote the use of evidence in policymaking in various domains of health policies, including public and population health and cross sector policies (e.g., juvenile justice, education).
- Rigorous evaluations of implementation outcomes of policies, including de-implementation, unintended consequences, and economic dimensions (e.g., return on investment)
- Studies testing optimal strategies to implement or enhance uptake, sustainment, and preservation of core components of policies as they are adapted to local conditions, particularly in low-resourced environments and organizations that serve vulnerable populations
- Methods and measures evaluating policy implementation and sustainment, including studies assessing the applicability and adaptability of clinical implementation strategies for policy contexts.

### **Models, Methods, and Measures**

- Measures and methods to capture the dynamic evolution of interventions across time and context

- Studies demonstrating the application of simulation and statistical modeling techniques to implementation research questions
- Empirical tests of integrative conceptual models or theories of (de)implementation processes
- Research on dissemination or implementation methods or measurement that attempt to generalize across clinical conditions and settings
- Measures, methods, or models to predict or explain sustainability of implemented practices
- Studies that demonstrate rigorous application of mixed methods approaches (i.e., integration of qualitative and quantitative methods)

### **Prevention and Public Health**

- Develop and test transformative implementation strategies to improve the accessibility, adoption, implementation, sustainability, and scale up of evidence-based practices in prevention and public health
- Advance implementation designs that address complexities in prevention and public health, from multi-level and multifaceted interventions, to patient comorbidities, and contextual factors
- Methods to study scale-up and sustainability of dissemination and implementation of evidence-based preventive interventions in populations, especially underserved populations
- Improve implementation strategies that ensure engagement of patients, decision-makers, healthcare organizations, and other key stakeholders in prevention and public health programs
- Develop and evaluate multi-sector implementation of prevention strategies for population health improvement

### **Promoting Health Equity and Eliminating Disparities**

- Strategies to adapt existing evidence-based interventions to be culturally appropriate while maintaining fidelity
- Strategies to implement evidence-based practices and guideline-concordant care in low-resource healthcare settings
- Community, system or population level implementation to promote health equity (e.g., within health care systems, education systems, community-wide environmental interventions, and policy changes), including addressing barriers and facilitators of implementation (e.g., engagement and adaptation, organizational and system-level factors)
- Sustainability within settings and systems to promote health equity and eliminate disparities
- Building capacity to address health disparities in dissemination and implementation research