10th Annual Conference on the Science of D&I

Areas of Focus

Behavioral Health

- Develop and test implementation strategies to improve delivery and sustainability of guideline-based care in behavioral health
- Test transformative research strategies to promote implementation, adoption, accessibility, and uptake of evidence-based practices in behavioral health
- Improve implementation strategies for behavioral health that ensure engagement of patients, decision-makers, healthcare organizations, and other key stakeholders
- Advance implementation designs that address the complexities in behavioral health, from multifaceted interventions, to patient comorbidities, and contextual factors
- Optimize the reach of hybrid effectiveness-implementation research designs
- 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 Research

- 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
- New approaches to present information derived from big data in non-traditional settings (i.e. outside of a traditional healthcare delivery setting) to support appropriate actions and behaviors (e.g. of patients and caregivers) in the context of implementation research
- New approaches to integrate results from big data into clinical workflows and support the development of decision tools to support timely, evidence-based clinical decisions in healthcare delivery settings
- Innovative data-based technologies to facilitate evidence dissemination to diverse audiences
- Use of technologies, especially assistive technologies, to enhance reach, access and acceptability of interventions

Building the Future of D&I Research

- Training programs for the next generation of implementation researchers and implementation practitioners
- Designing for dissemination and implementation: Making innovations more implementable at the front end
- Studies of cost-effectiveness of implementation strategies
- Hot-topic health domains for implementation research: Precision medicine, emerging infectious diseases/pandemics, rare diseases
- Innovative approaches for disseminating and implementing results from dissemination and implementation studies
- Methods innovations: Cyclical approaches to studying implementation and de-implementation, leveraging data platforms and cohorts to facilitate implementation research

Clinical Care Settings: Patient-Level Interventions

- Studies that develop / 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

- Studies that develop / test approaches to adapting interventions and / or implementation strategies to diverse contexts, and innovative methods for engaging frontline providers, consumers, and other stakeholders throughout the adaptation process
- Studies that develop / test health information technology-based patient-level interventions, and optimal strategies for implementing them; for example, mHealth, eHealth, patient portals, and shared decision-making tools
- Innovative implementation studies designed to improve health outcomes among diverse, vulnerable, and underserved patients
- Studies on optimizing data visualization methods for patient-facing health information

Clinical Care Settings: System-Level Interventions

- Methods to understand key factors for successful implementation of evidence-based interventions within Health Systems, especially for underserved populations
- Frameworks and/or methods to study sustainability of dissemination and implementation of evidence-based interventions within Health Systems
- Frameworks and/or methods to study de-implementation of ineffective or unproven clinical practices within Health Systems
- Methods to understand the requisite balance of fidelity and adaptation in dissemination and implementation within Health Systems
- Economic evaluation in dissemination and implementation research across clinical settings and Health Systems

Global Dissemination & Implementation

- Building capacity for dissemination and implementation research in LMICs (at the individual and institutional levels and including mentoring)
- Strengthening understanding of the role of overall context in dissemination and implementation research in LMICs including the social and health systems.
- Adapting or developing of dissemination or implementation research frameworks and models to the LMIC context
- Learning from successes (enablers) and failures (disablers) of implementation: Examples of dissemination and implementation research in low- and middle-income countries
- Understanding scale up and sustainability in dissemination and implementation research: learning from resource constrained settings
- Evaluating dissemination and implementation research in the context of LMICs – increasing rigor and attribution

Health Policy Dissemination and Implementation

- Scientific study of implementation, sustainment, and/or abandonment of state, local, 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 efforts to coordinate care, payment models that reward performance rather than volume, and approaches to integrating primary care and population health.
- Evaluations of initiatives to promote the use of evidence in policymaking in various domains of health policies, including cross sector policies (e.g., juvenile justice, education)
- Rigorous evaluations of implementation outcomes of policies, including de-implementation, unintended consequences and economic dimensions, such as 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/designs for evaluating policy implementation and sustainment, e.g., randomized program evaluation, stepped-wedge, in-depth analyses
- Studying the use of policies to enhance the dissemination, implementation and/or sustainment of evidence-based practices

Models, Measures, and Methods

- 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 implementation strategies to improve delivery and sustainability of guideline-based care in prevention and public health
- Test transformative research strategies to promote implementation, adoption, accessibility, and uptake of evidence-based practices in prevention and public health
- Improve implementation strategies that ensure engagement of patients, decision-makers, healthcare organizations, and other key stakeholders
- Advance implementation designs that address the complexities in prevention and public health, from multifaceted interventions, to patient comorbidities, and contextual factors
- Optimize the reach of hybrid effectiveness-implementation research designs
- Innovative implementation studies designed to improve behavioral health outcomes among diverse, vulnerable, and underserved populations around the globe

Promoting Health Equity and Eliminating Disparities

- Strategies to adapt existing evidence-based interventions to be culturally appropriate while maintaining fidelity
- 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