

12th Annual Conference on the Science of D&I

Areas of Focus

Behavioral Health

- Novel strategies for de-implementation of unproven behavioral health interventions
- Innovative research approaches, including the use of wearables, handhelds, and other new technologies, to promote accessibility, adoption, uptake, implementation, sustainability, and scale up of evidence-based practices in behavioral health
- New implementation strategies for behavioral health that ensure engagement of multiple and key stakeholders including patients, decision-makers, providers, and healthcare organizations
- Studies of implementation designs that address the multi-level complexities in behavioral health including contextual factors, multifaceted interventions, adaptive approaches, and patient comorbidities
- Studies that appropriately 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

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

- Advancing capacity (e.g., training programs, institutional structures, implementation laboratories) for the next generation of D&I researchers and practice implementers: innovative models to meet demand and deepen skills
- Broadening the scientific base through partnerships: with clinical researchers across the translational spectrum, systems scientists, allied health service disciplines, investors, economists
- Innovative approaches and infrastructure to support and measure the use of evidence-based implementation strategies (e.g., novel ways to capture key D&I variables from existing data)
- 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 how contextual health system facilitators and barriers affect implementation of complex interventions or de-implementation of ineffective or unproven practices
- Studies providing health system leadership with timely economic evaluations of health system implementation activities
- Studies examining key factors to efficiently adapt clinical practice as new evidence or guidelines emerge.
- Studies describing methods to examine the dynamics of change over time during implementation of evidence-based interventions within health systems
- Understanding how investments in health system infrastructure such as data capacity, information sharing, workforce, patient engagement, and culture can support implementation of evidence.

Global Dissemination & Implementation Science

- 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
- Studies of the use of mhealth technologies to improve global D&I
- Approaches to strengthening health system capacity and quality of evidence-based program implementation in global health

Health Policy Dissemination & Implementation Science

- Studies of the implementation, sustainment, and/or de-implementation of local, state, or national public or private policies— including, but not limited to, legislation, administrative rules, practice guidelines promulgated by major professional societies, and policies implemented in health care delivery systems.
- Studies of dissemination strategies that aim to promote the use of research evidence in public policy and health care policy. Formative studies that can inform the design of policy dissemination strategies are also of interest.
- Rigorous evaluations of the implementation outcomes of policies—including de-implementation of practices that are not evidence-based, unintended consequences of policy implementation, and economic dimensions (e.g., return on investment)
- Studies exploring adaptation in policy implementation across different contexts—such as low-resourced environments and organizations that serve vulnerable populations
- Development of methods and measures focused on policy dissemination and implementation, including studies assessing the applicability and adaptability of clinical dissemination and implementation strategies for policy contexts.
- Approaches to using big data and new information technologies in policy dissemination and implementation evaluation.

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 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
- Big data and health information technology approaches to enhance implementation of and engagement with evidence-based interventions and practices for disadvantaged populations
- 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