Behavioral Intervention Research: From Efficacy to Implementation

Kate Stoney, Ph.D. National Heart, Lung, and Blood Institute April 3, 2014

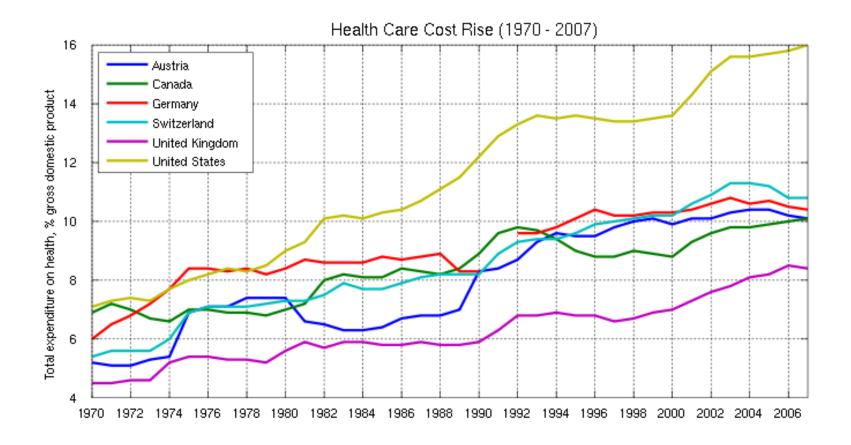


Current Health Care Situation in the US

- Underperforming health care system
- Balkanized and silo approaches to care, lack of integration of care
- Expensive, unsustainable cost, increasingly inaccessible
- Inequitable, significant health disparities

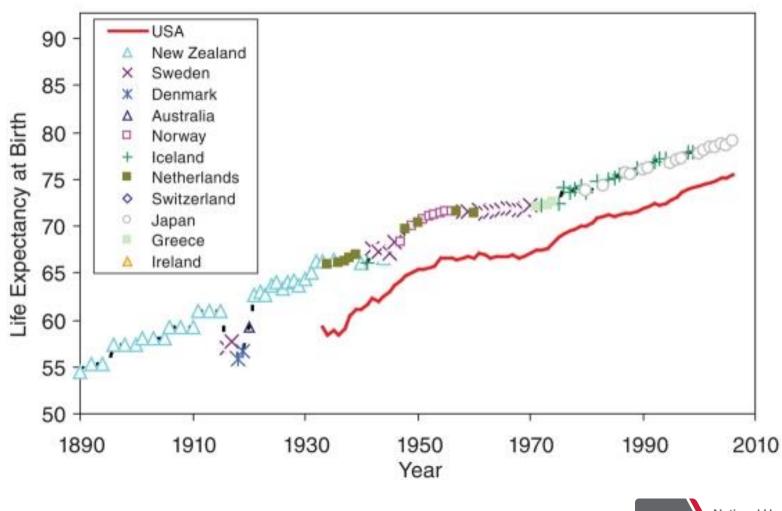


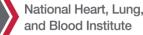
Health Care Costs are Rising





Life Expectancy in the US and Other Industrialized Nations





Ideally we would have

- An integrated health care system
- Cost-effective
- Personalized care

Rapid translation from research to care



Moving Research to Practice





Balas EA,1998.

Why do we need to know more about translation to practice?

- Evidence-based practices are not reaching patients with complex problems and vulnerable populations
- Effective interventions are not generally tested in real-world settings with staff found in public health and clinical situations
- Too often, our research questions do not address issues important to practitioners, policy makers, and patients and their families
- Many evidence-based treatments not feasible in most real-world settings

Questions Addressed by D&I Research

- How to achieve widely accepted and adopted efficacious interventions in a variety of real-world settings
- Potentially modify interventions to be consistently accepted and implemented by individuals with varying training and expertise
- Enhance feasibility, provider and patient adherence, and community uptake while producing reliable effects at reasonable cost
- Determine how to reach large numbers of people in real-world settings, especially those who can most benefit



Design Strategies Used in D&I Research

Strike a balance between rigor and relevance in study designs, methods and outcomes

- RCTs
- Simulations, modeling, dynamic systems science models
- Natural experiments (implementation of new policy)
- Use of EHRs, registries, large health care systems
- Pragmatic trials
- Adaptive designs
- Factorial designs (SMART, fractional factorials)
- Cluster randomized designs
- Community Based Participatory Research approaches (CBPR)*
- Patient-centered care approaches
- and others....

Design Considerations in D&I research

- Consider where the state of your science falls on the research continuum
- Utilize team science approaches, multidisciplinary, integrated care

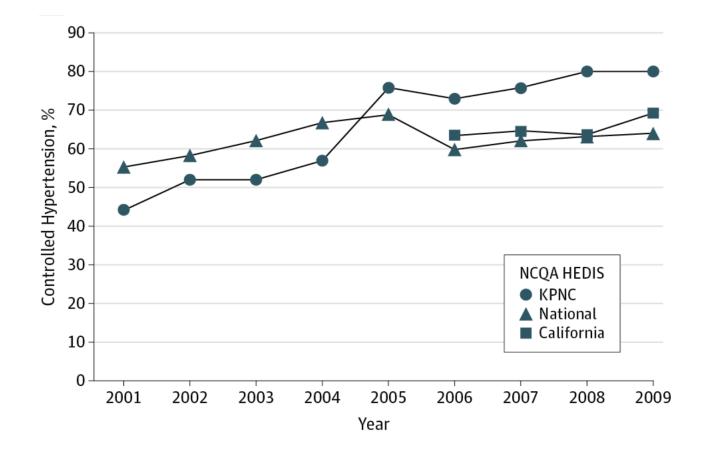


Snapshot: Hypertension Control in an Integrated Health Care Delivery System

- Utilized an integrated health care delivery system, allowing access to data and an ongoing dissemination practice
- The Kaiser system-wide hypertension registry provided large numbers of eligible patients; study exempt from IRB review
- Large scale, multifaceted program developed from effective, primary care-based strategies published in <u>72 previous clinical trials</u>.



Hypertension Case Study - Go et al Hypertension Control, JAMA, 2013





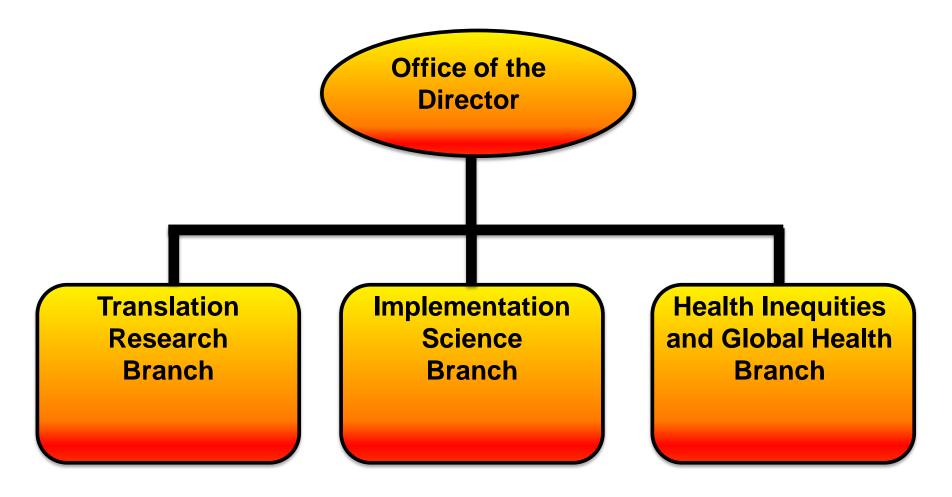
CTRIS Announcement, January 23, 2014

CTRIS will serve as a strategic focal point for *implementation science*, translation research, and a research agenda that addresses both domestic and global health inequities, and research training for a workforce to achieve these goals.





Center for Translation Research and Implementation Science





From: NHLBI Center for Translation Research and Implementation Science



