Workshop on Innovative Study Designs and Methods for Developing, Testing and Implementing Behavioral Interventions to Improve Health

April 2 - 3, 2014
6701 Rockledge Drive (Rockledge 2), Room 3087/3091
Bethesda, MD 20892

Co-Chairs: Sylvie Naar-King, Ph.D., Wayne State University and Bonnie Spring, Ph.D., Northwestern University

DRAFT AGENDA

Wednesday, April 2

8:00 a.m. Welcome and Introductory Remarks
Sylvie Naar-King, Ph.D., Wayne State University
Bonnie Spring, Ph.D., Northwestern University
Susan Czajkowskí, Ph.D., National Heart, Lung, and Blood Institute

8:15 a.m. NHLBI Perspective: The Need for Creative New Methods in Clinical Research
Michael Lauer, M.D., Director, Division of Cardiovascular Sciences, National Heart, Lung, and Blood Institute

8:45 a.m. Developing and Optimizing Behavioral Treatments to Prevent and Treat Disease
Susan Czajkowski, Ph.D., National Heart, Lung, and Blood Institute

9:00 a.m. Panel 1: Novel techniques for defining the intervention and its targets
Moderator: Christine Hunter, Ph.D., National Institute of Diabetes and Digestive and Kidney Diseases

- Using “human-centered” design to develop better behavioral interventions
  Silvia Vergani, IDEO

- Analyzing patient-provider communication in clinical contexts to identify novel behavior change targets
  April Carbone, Ph.D., Wayne State University

- Behavioral Event Modeling: Identifying and utilizing key inflection points to promote health behavior change
  Brian Wansink, Ph.D., Cornell University

10:00 a.m. Discussion

10:30 a.m. Break

10:50 a.m. Panel 2: Intervention development and preliminary testing: Within-subjects and small-N studies
Moderator: Stacey FitzSimmons, Ph.D., Center for Scientific Review
- Single-case experimental designs
  Bethany Raiff, Ph.D., Rowan University

- Modeling individual trajectories: Subject specific coding for population parameter estimates of treatment effects
  Thomas Templin, Ph.D., Wayne State University

- Three techniques for rigorous analysis of intensive within-person experiments
  Ty Ridenour, Ph.D., University of Pittsburgh

11:50 p.m. Discussion

12:20 p.m. LUNCH

1:20 p.m. Panel 3: Study designs for refining, tailoring and optimizing interventions I
  Moderator: Laura Lee Johnson, Ph.D., National Center for Complementary and Alternative Medicine
  - Bayesian estimation for dose-finding studies
    Yuan Ji, Ph.D., University of Chicago
  - MOST/full and fractional factorial designs
    Kari Kugler, Ph.D., Pennsylvania State University

2:00 p.m. Discussion

2:30 p.m. Break

2:50 p.m. Panel 4: Study designs for refining, tailoring and optimizing interventions II
  Moderator: William Riley, Ph.D., National Cancer Institute
  - Adaptive Interventions: From SMART to Just-in-Time Adaptive Interventions (JITAI)
    Inbal (Billie) Nahum-Shani, Ph.D., University of Michigan
  - JITAI and early behavioral intervention development
    Pedja Klasnja, Ph.D., University of Michigan
  - Creative new behavioral interventions in the making
    Tanzeem Choudhary, Ph.D., Cornell University
  - Application of JITAI to substance abuse research
    David Gustafson, Ph.D., University of Wisconsin at Madison

4:10 p.m. Discussion
Developing and optimizing behavioral interventions: Commentary and additional considerations
Moderator: Robert Kaplan, Ph.D., Director, NIH Office of Behavioral and Social Sciences Research
- Mario Stylianou, Ph.D, National Heart, Lung, and Blood Institute
- Bonnie Spring, Ph.D., Northwestern University

Adjourn for the day

Group dinner (Location TBD)

Thursday, April 3

8:15 a.m.  Summary of Day 1 and Introduction to Day 2
Bonnie Spring, Ph.D., Northwestern University
Sylvie Naar-King, Ph.D., Wayne State University
Kate Stoney, Ph.D., National Heart, Lung, and Blood Institute

8:30 a.m.  The NIH Office of Disease Prevention: Encouraging Innovative and Improved Approaches to Prevention Science
David Murray, Ph.D., Director, NIH Office of Disease Prevention

9:00 a.m.  Behavioral Intervention Research: From Efficacy to Implementation
Kate Stoney, Ph.D., NHLBI

9:15 a.m.  Panel 5: Innovative approaches to improve the reach, delivery and impact of behavioral interventions
Moderator: TBN
- The application of social network analysis and multilevel models to community health interventions
  Douglas Luke, Ph.D., Washington University in St. Louis
- Complex systems modeling for behavioral research
  Ross Hammond, Ph.D., Brookings Institution
- Harnessing “small data” for personalized health promotion
  Deborah Estrin, Ph.D., Cornell University

10:15 a.m.  Discussion

11:00 p.m.  LUNCH

12:00 p.m.  Panel 6: Harnessing existing resources to test and implement behavioral interventions
Moderator: Wendy Weber, N.D., Ph.D., M.P.H., National Center for Complementary and Alternative Medicine
■ The use of HMOs/research networks for conducting pragmatic behavioral intervention studies
  Lynn Debar, Ph.D., Kaiser Permanente Center for Health Research

■ Leveraging EHR’s in large simple trials of behavioral interventions
  Elsie Taveras, M.D., Mass General Hospital for Children

■ Partnering with industry in the conduct of behavioral trials: Lessons from the Healthways/POWER trials collaboration
  Janelle Coughlin, Ph.D., John Hopkins University

1:00 p.m.  Discussion

1:30 p.m.  Testing and implementing behavioral interventions: Commentary and additional considerations
  Moderator: Peter Kaufmann, Ph.D., National Heart, Lung, and Blood Institute

  ■ Ken Kleinman, Ph.D., Harvard Medical School
  ■ Sylvie Naar-King, Ph.D., Wayne State University

2:20 p.m.  Summary and Wrap-up
  Bonnie Spring, Ph.D. and Sylvie Naar-King, Ph.D.

2:30 p.m.  Adjourn