

February 13 – 14, 2020

The National Institutes of Health Building 45 Natcher Conference Center Bethesda, Maryland



AGENDA

Thursday, February 13, 2020

Session I: Welcome and Overview of the Workshop

Session Chair: Wendy B. Smith, M.A., Ph.D., BCB, Associate Director, OBSSR, OD, NIH

9:00 a.m. — 9:10 a.m. Opening Remarks: Workshop Goals

Wendy B. Smith, M.A., Ph.D., BCB, Associate Director, OBSSR, OD, NIH

9:10 a.m. — 9:25 a.m. Clinical and Research Significance of the Workshop

William T. Riley, Ph.D., Director, OBSSR, OD, NIH, Associate Director, BSSR, NIH

9:25 a.m. — 9:35 a.m. Discovery and Validation of Biomarkers for Chronic Pain: Background from the 2018

NIH Pain Biomarker Workshop

Mary Ann Pelleymounter, Ph.D., National Institute of Neurological Disorders and Stroke

(NINDS), NIH

9:35 a.m. — 9:50 a.m. The Need for Comprehensive Pain Measurement: A Patient Perspective

Christin Veasley, B.S., Chronic Pain Research Alliance

Session II: Setting the Stage: Advances and Challenges

Session Chair: Martha Matocha, Ph.D., Program Director, Symptom Science and Genetics Branch,
Office of Extramural Programs, National Institute of Nursing Research (NINR), NIH

9:50 a.m. — 10:10 a.m. Biopsychosocial and Genomic Biomarkers for Individualized Integrative

Pain Care - The Horizon

William Maixner, D.D.S, Ph.D., Duke University

10:10 a.m. — 10:30 a.m. Ethical Considerations in Pain Measurement for Pain Diagnostics and Treatment

Amanda C. Pustilnik, J.D., University of Maryland School of Law

10:30 a.m. — 10:45 a.m. Session II Panel Discussion

Q&A

10:45 a.m. — 11:00 a.m. **Break**

Session III: Chronic Pain Measurement: Beyond the Visual Analog Scale

Session Chair: Wen G. Chen, Ph.D., Branch Chief, Basic and Mechanistic Research in Complementary and Integrative Health, Division of Extramural Research (DER), National Center for Complementary and Integrative Health (NCCIH), NIH

11:00 a.m. — 11:20 a.m. Using Multidimensional Self Report Scales in the Context of Chronic Pain:

Current State of the Science

Francis J. Keefe, Ph.D., Duke University

Elizabeth Roy Felix, Ph.D., University of Miami Miller School of Medicine and Miami

Veterans Administration Medical Center

11:40 a.m. — 12:00 p.m. Tailoring Measurement of Pain Predictors, Modulators, and Outcomes to the Patient

Population: Examples from Studies of Chronic Postsurgical Pain

Kristin Schreiber, M.D., Ph.D., Brigham and Women's Hospital and Harvard

Medical School

12:00 p.m. — 12:30 p.m. Session III Panel Discussion

Q&A

12:30 p.m. — 1:15 p.m. **Lunch**

Session IV: Co-morbidities on Chronic Pain Measurement and Potential Impact on Outcome Measures

Session Chair: Juanita J. Chinn, Ph.D., Program Director, Population Dynamics Branch, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), NIH

1:15 p.m. — 1:35 p.m. Affective States: The Influence of Depression, Anxiety and Catastrophizing

Claudia M. Campbell, Ph.D., Johns Hopkins University School of Medicine

1:35 p.m. — 1:55 p.m. Challenges of Measuring the Brain State: Chaos or Stability

David Borsook, M.D., Ph.D., Boston Children's Hospital, Massachusetts General Hospital,

McLean Hospital, and Harvard Medical School

1:55 p.m. − 2:15 p.m. Sleep Disturbance and Pain Outcomes

Alban Latremoliere, Ph.D., Johns Hopkins School of Medicine

2:15 p.m. - 2:45 p.m. Session IV Panel Discussion

Q&A

2:45 p.m. — 3:00 p.m. **Break**

Session V: The Social and Cultural Factors Influencing Chronic Pain and Clinical Performance Measures

Session Chair: Karen C. Lee, M.D., M.P.H., Program Director, Behavioral Pediatrics and Health Promotion Program, NICHD, NIH

3:00 p.m. — 3:20 p.m. The Role of Parental and Family Factors in Children and Adolescents with Chronic Pain

Tonya M. Palermo, Ph.D., University of Washington and Seattle Children's

Research Institute

3:20 p.m. — 3:40 p.m. Functional Neuroimaging of Psychosocial States: Brain Circuitries Supporting Pain

and Pain Catastrophizing

Vitaly Napadow, Ph.D. LAc., Massachusetts General Hospital and Harvard

Medical School

3:40 p.m. - 4:10 p.m. Session V Panel Discussion

Q&A

4:10 p.m. — 4:30 p.m. Panel Discussion Summarizing Day 1

Martha Matocha, Ph.D., NINR, NIH

William Maixner, D.D.S, Ph.D., Duke University

Amanda C. Pustilnik, J.D., University of Maryland School of Law

4:30 p.m. Day 1 Adjournment and Networking

Session VI: The Use of Technologies to Inform Pain Outcomes

Session Chair: Erin Spaniol, M.S., O.T.R., M.P.H., Health Science Policy Analyst, Office of the Director, NIH

8:30 a.m. — 8:50 a.m. Wearable Devices in the Rehabilitation Setting

Karen Lomond, Ph.D., Ithaca College

8:50 a.m. — 9:10 a.m. Molecular Imaging of Peripheral and Central Pain Processes

Clas Linnman, Ph.D., Harvard Medical School

9:10 a.m. — 9:30 a.m. Developing Digital Measures from Person-Generated Health Data

Luca Foschini, Ph.D., Evidation Health, Inc.

9:30 a.m. — 10:00 a.m. Session VI Panel Discussion

Q&A

10:00 a.m. — 10:15 a.m. **Break**

Session VII: Role of Technologies in Clinical Trials and Measurement Development

Session Chair: David Thomas, Ph.D., Special Advisor, Office of Research on Womens Health (ORWH), OD, NIH

10:15 a.m. - 10:35 a.m. Bedside Sensory Testing for Clinical Trials

Roy Freeman, M.D., Beth Israel Deaconess Medical Center

10:35 a.m. — 10:55 a.m. Ambulatory Activity Dosage Response

David Boone, BSPO, M.P.H., Ph.D., Orthocare Innovations

10:55 a.m. — 11:15 a.m. Collecting Complex Data in Pain Clinical Trials: Some Caveats

Dennis C. Turk, Ph.D., University of Washington

11:15 a.m. — 11:45 a.m. **Session VII Panel Discussion**

Q&A

11:45 a.m. — 12:30 p.m. Lunch

Session VIII: What is Efficacy in Pain Clinical Trials?

Session Chair: Will M. Aklin, Ph.D., Director, Behavioral Treatment Program, Clinical Research Grants Branch (CRGB),
National Institute on Drug Abuse (NIDA), NIH

12:30 p.m. — 12:50 p.m. FDA Perspective – Genetic, Clinical and Phenotypic Endpoints

Elektra Papadopoulos, Ph.D., U.S. Food and Drug Administration

12:50 p.m. — 1:10 p.m. A Momentary Measurement Perspective to Pain Intensity

Arthur A. Stone, Ph.D., University of Southern California

1:10 p.m. — 1:30 p.m. Objectives and Endpoints of Clinical Trials in Pain: Proof of Biology, Efficacy, Impact

Joachim Scholz, M.D., Biogen

1:30 p.m. − 2:00 p.m. Session VIII Panel Discussion

Q&A

<u>Session IX: Towards a Complex Composite Measurement for Chronic Pain from Behavioral, Social and Biological Measurements</u>

Session Chair: Dennis C. Turk, Ph.D., University of Washington

2:00 p.m. — 3:00 p.m. **Panel Discussion:**

Francis J. Keefe, Ph.D., Duke University

David Borsook, M.D., Ph.D., Boston Children's Hospital, Massachusetts General Hospital,

McLean Hospital, and Harvard Medical School

Jing Wang, M.D., Ph.D., New York University School of Medicine

Each panelist will be given 5 minutes to speak on one or more of the following topics, followed by discussion and Q&A: How to move forward and what is needed

- Use of big data analyses, machine learning techniques
- Expertise needed to advance the field
- Implications for research teams
- Resources needed

3:00 p.m. Adjournment