

Meeting Summary and Future Opportunities in HEAL

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Goals for the Meeting

- Establish the HEAL investigator network through streamlined communications and the shared expertise of HEAL researchers
- Increase awareness of the geographic, thematic and programmatic scope of HEAL
- Explore commonalities and enhance individual programs to optimize the successes of HEAL
- Consider priorities for HEAL research going forward



Data Sharing Breakout Session Summary

Data Session Breakout Session Considerations and Opportunities

- Perform portfolio analysis to learn about commonalities among trials and see if there is overlap
 - e.g. determine which studies are using imaging, sensory testing, pediatric populations data
- Recognize that Pain and OUD communities aren't separate entities
 - Standardization should integrate measures from both
- Provide uniform guidance for data collection across HEAL studies
- Convene focus groups to address data harmonization challenges



Cross-Cutting Breakouts

Basic to Clinical Research

- Challenge: lack of translation from model systems to humans
- Opportunities:
 - Assistance transitioning from experimental compound to IND through NIH trials and funding mechanisms
 - Data shared from failed trials could spur progress and prevent wasted time



Therapeutic Development

 Challenge: difficulties scaling up research for the next stage of development

Opportunities:

- Rapid screening of small molecules that can be carried out in small scale studies
- Important to develop specific preclinical models that are predictive for different pain and use disorder conditions
- Development of pharmacogenomic strategies and biomarkers



Integrating Co-occurring Conditions Into HEAL Research

- Challenge: Defining co-morbid and co-occurring condition; often varies by discipline
- Opportunities:
 - "Gold-standard" for pain measurement and treatment approaches
 - Consider technology (i.e., iPhone app, or online database/ resource/ software program)
 - Understanding how patients choose which conditions to seek treatment for, and how conditions progress together



Assessing Pain and Risk for Opioid Use Disorder

- Challenge: Measuring long-term or chronic opioid use
 - Misuse v. opioid use disorder
 - No measures exist for opioid naïve individuals
- Opportunities:
 - Shared databases:
 - Projects using OUD, pain measures
 - Measures of pain on the background of OUD



Incorporating Stakeholder Input

 Challenge: People who are actively using drugs are hesitant to participate in studies where they may interact with law enforcement community

Opportunities:

- Resource to match expertise and necessary background/best practice knowledge
- Shared strategies for patient engagement across programs and develop repository of training and materials engaging with stakeholders
- Leverage knowledge from previous public health crisis (e.g. HIV)



Future Opportunities and Priority Areas

HEAL Workshops: Spring-Summer 2020

Towards the Use of Buprenorphine in Infants: Scientific and Practical Considerations

Addressing Social and Economic Determinants of Opioid-Related Health Disparities- Expert Panel Workshop and Planning Meeting

Navigating pediatric to adult health care: Lost in health care transition

Structural and dynamic imaging of myofascial tissues: potential impact on musculoskeletal pain research

Target Validation for Non-Addictive Therapeutics Development for Pain - Strategic Approaches and Best Practices

Interventions for Managing Comorbid Chronic Pain & OUD/Physical Dependence

Developing meaningful endpoints for pain clinical studies



NIH HEAL Initiative Current Open Funding Opportunities

<u>Discovery and Validation of Novel Targets for Safe and Effective Pain</u> Treatment

- RFA-NS-18-042: Discovery and Validation of Novel Targets for Safe and Effective Pain Treatment (R21 Clinical Trial Not Allowed)
- RFA-NS-18-043: Discovery and Validation of Novel Targets for Safe and Effective Pain Treatment (R01 Clinical Trial Not Allowed)

Translating Discoveries into Effective Devices to Treat Pain

Translational Devices to Treat Pain

- RFA-NS-19-016: HEAL Initiative: Translational Devices to Treat Pain (UG3/UH3 Clinical Trial Optional)
- RFA-NS-19-017: HEAL Initiative: Translational Devices to Treat Pain (U44 Clinical Trial Optional)
- RFA-EB-18-003: HEAL Initiative: Translational Development of Devices to Treat Pain (U18 Clinical Trial Not Allowed)

Clinical Devices to Treat Pain

 RFA-NS-19-018: HEAL Initiative: Clinical Devices to Treat Pain (UH3 Clinical Trial Optional)

Discovery of Biomarkers, Biomarker Signatures, and Endpoints for Pain

 RFA-NS-18-041: Discovery of Biomarkers, Biomarker Signatures, and Endpoints for Pain (R61/R33 Clinical Trial Optional)

Early Phase Pain Investigation Clinical Network (EPPIC-Net):

- NOT-NS-19-075: HEAL/NINDS Early Phase Pain Investigation Clinical Network (EPPIC-Net): Opening to applications for non-addictive pain therapeutics
- NOT-NS-19-043: Notice of Information: Clinical Trials that Explore Non-Addictive Therapeutics for Pain Conditions under the Early Phase Pain Investigation Clinical Network (EPPIC-Net)

Back Pain Consortium Research Program

NOT-AR-20-016: HEAL Initiative: Back Pain Consortium (BACPAC)
Research Program Notice of Special Interest (NOSI) regarding the
Availability of Urgent Competitive Revisions

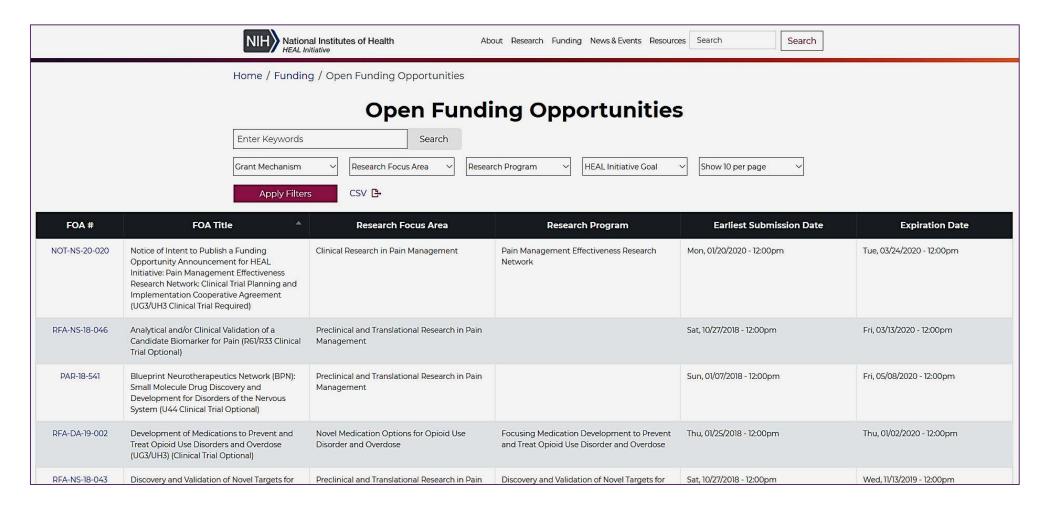
<u>Focusing Medication Development to Prevent and Treat Opioid Use</u> Disorder and Overdose

RFA-DA-19-002: Development of Medications to Prevent and Treat Opioid Use Disorders and Overdose (UG3/UH3) (Clinical Trial Optional)

<u>Pragmatic and Implementation Studies for the Management of Pain to Reduce Opioid Prescribing (PRISM)</u>

 NOT-AT-20-005: Notice of Intent to Publish a Funding Opportunity Announcement Re-issuance for HEAL Initiative: Pragmatic and Implementation Studies for the Management of Pain to Reduce Opioid Prescribing (PRISM) (UG3/UH3, Clinical Trials Optional)

https://heal.nih.gov/funding/open







THANKS! NIH Executive Committee

- Francis Collins, M.D., Ph.D., Chair, Director, National Institutes of Health
- Walter Koroshetz, M.D., Chair, Director, National Institute of Neurological Disorders and Stroke
- Nora Volkow, M.D., Chair, Director, National Institute on Drug Abuse
- Christopher Austin, M.D., Director, National Center for Advancing Translational Sciences
- Diana Bianchi, M.D., Director, Eunice Kennedy Shriver National Institute of Child Health and Human Development
- Robert Carter, M.D., Acting Director, National Institute of Arthritis and Musculoskeletal and Skin Diseases
- Joshua Gordon, M.D., Ph.D., Director, National Institute of Mental Health
- Helene Langevin, M.D., Director, National Center for Complementary and Integrative Health
- Lawrence Tabak, D.D.S., Ph.D., Principal Deputy Director, National Institutes of Health;
 Acting Director, National Institute of Dental and Craniofacial Research



THANKS! HEAL Scientific Team Leadership

- Novel Medication Options for Opioid Use Disorder and Overdose
 - Ivan Montoya, M.P.H., M.D., NIDA
 - Kentner Singleton, Ph.D., NIAID
- Translation of Research to Practice for the Treatment of Opioid Addiction
 - Dave Clark, Dr.P.H., NCCIH
 - Tisha Wiley, Ph.D., NIDA
- New Strategies to Prevent and Treat Opioid Addiction
 - Michael Freed, Ph.D., NIMH
 - Jacqueline Lloyd, Ph.D., M.S.W., NIDA

- Preclinical and Translational Research in Pain Management
 - Christine Colvis, Ph.D., NCATS
 - Michael Oshinsky, Ph.D., NINDS
- Clinical Research in Pain Management
 - Jane Atkinson, D.D.S., NCATS
 - Linda Porter, Ph.D., NINDS
- Enhanced Outcomes for Infants and Children Exposed to Opioids
 - Drew Bremer, M.D., Ph.D., NICHD
 - Michelle Freund, Ph.D., NIDA

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- Drew Bremer, NICHD,
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- Amir Tamiz, NINDS

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- Lisa Estes, NIDDK
- Dorothy Tucker, NICHD
- Leah Pogorzala, NINDS
- Meera Raja, OD

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Linda Porter, NINDS



Jack Stein, NIDA



Danielle Haney, NINDS



Erin Spaniol, OD



Next Steps



- Please visit the NIH HEAL Initiative website to access meeting materials, including slides and executive summaries. https://heal.nih.gov/events/heal-investigator-meeting-01-2020
- Stay tuned for more information on the Second Annual HEAL Investigator meeting!
 - How can the next Investigator meeting best meet your needs? Please let us know by completing the post-meeting survey.

