

The National Academies Non-Pharmacological Approaches to Pain Management Research to Address the Opioid Crisis



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NIH HEAL Initiative: Selected Priorities

Opioid Use Disorder

- Therapies for addiction & overdose
- Real-world implementation research to optimize interventions
- Evaluate treatments, consequences of Neonatal Opioid Withdrawal Syndrome

Pain Management

Preclinical

Clinical

Implementation

NIH HEAL: Preclinical - Clinical Research

*Enhance targeting and reduce invasiveness
of therapeutic devices for pain*

Brain
Research through
Advancing
Innovative
Neurotechnologies



Stimulating Peripheral
Activity to
Relieve
Conditions



Early Phase Pain Investigation Clinical Network

To improve quality, consistency, efficiency of early phase pain clinical trials

- HEAL Public Private Partnership data and asset sharing: test compounds and devices from industry, academia
- Incentivize, accelerate Phase II trials
- Focus on well-defined pain conditions with high-unmet need
- Incorporate biomarker studies



NIH HEAL - Proposed Back Pain Research Consortium

to probe mechanisms of back pain to develop and test integrated precision care

link structural, dynamic, cellular, molecular abnormalities to patient-reported symptoms and function

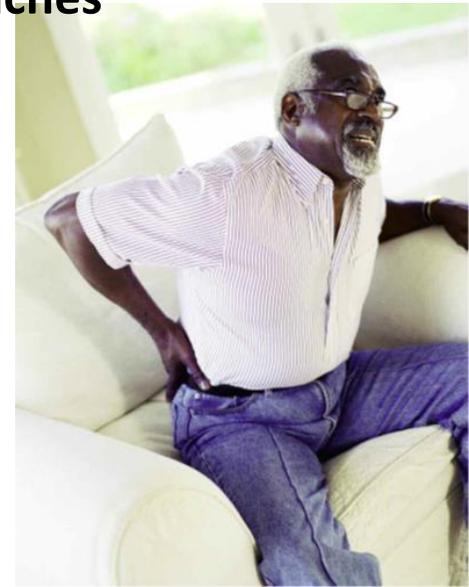
- Characterize mechanisms and improve phenotyping
- technology development for discovery, diagnostics, and treatment
- Data integration and modeling

Clinical trials for non-addictive drugs, biologics, devices and complementary approaches

- safety and efficacy trials
- integrated care trials
- mechanistic trials

Develop patient-centered algorithms to predict optimal treatment

- data from across the consortium's studies

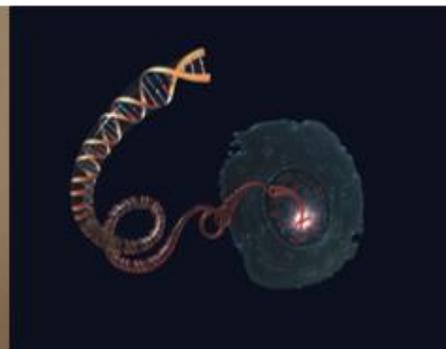


HEAL – Proposed Pain Effectiveness Research Consortium

To inform patients and providers on best treatment practices for pain

Evaluate the effectiveness of pharmacologic and nonpharmacologic therapies for a broad array of pain conditions through phase 3 clinical trials

- Comparative Effectiveness Research Network through NCATs' Trial Innovation Network
- Pain expertise in coordinating centers
- Coordinate data elements and storage with EPPIC and PRISM



Proposed Pragmatic and Implementation Studies for Management of Pain to Reduce Opioid Prescribing

To integrate interventions with demonstrated efficacy into health care systems and implement health care system change toward evidence-based pain management

