

Introduction to the HEAL (Helping to End Addiction Long-term) Initiative

Francis S. Collins, MD, PhD
Director, National Institutes of Health



Helping to End Addiction Long-term (HEAL) Initiative

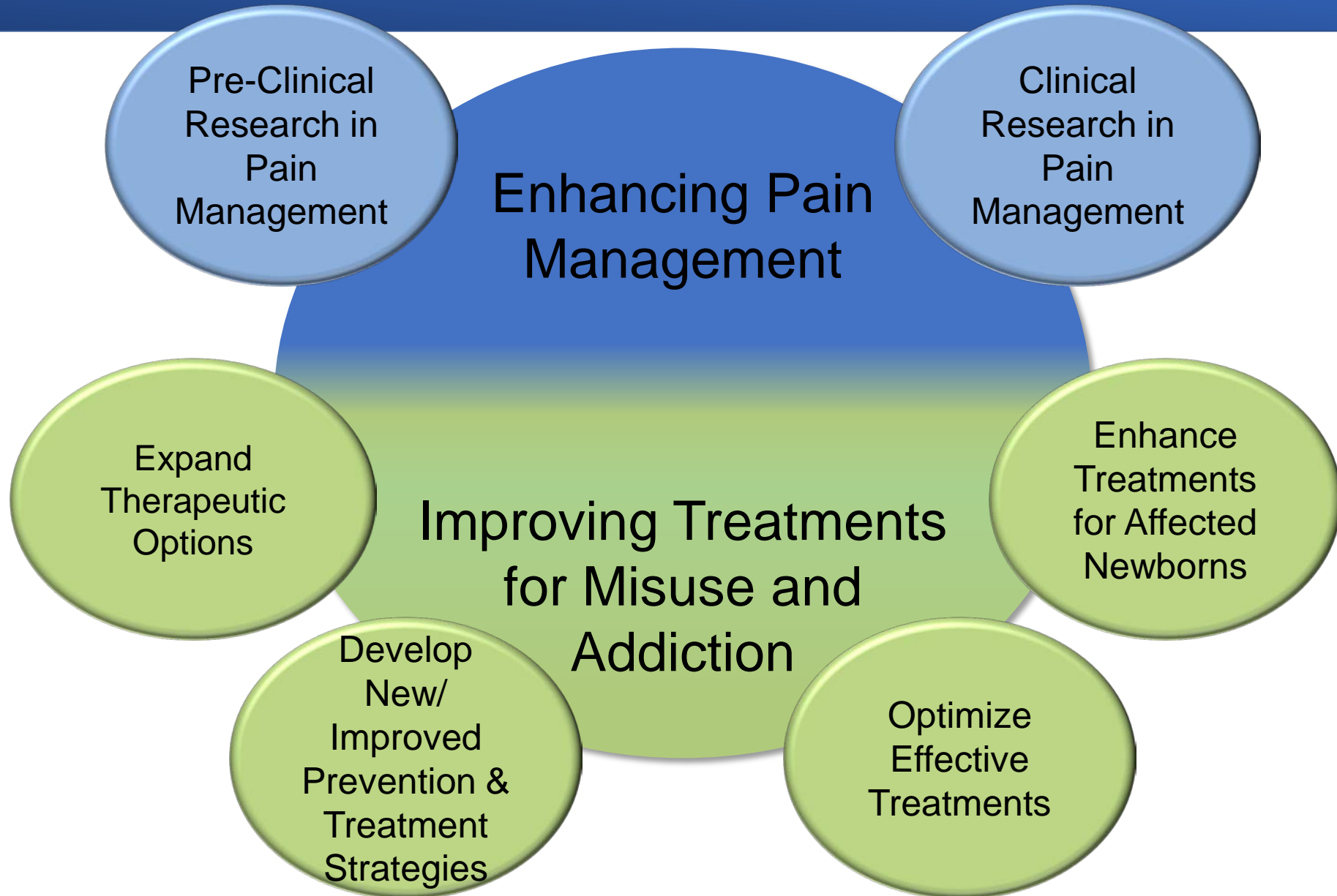
- Trans-NIH research initiative to:
 - Improve prevention and treatment strategies for opioid misuse and addiction
 - Enhance pain management
- Goals are scientific solutions to the opioid crisis
- Coordinating with the HHS Secretary, Surgeon General, federal partners, local government officials and communities



Helping to End Addiction Long-term (HEAL) Initiative: At a glance

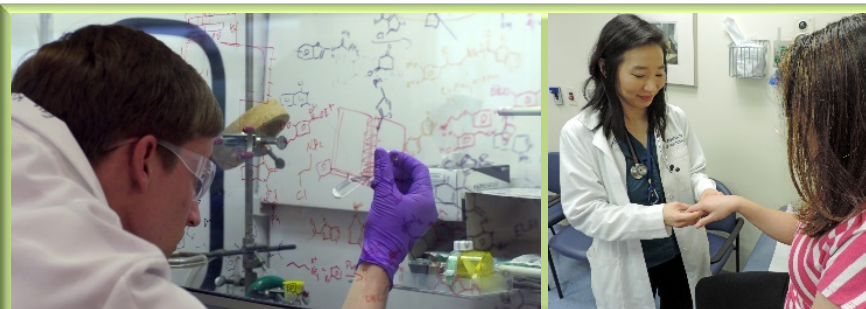
- \$500M/year Trans - NIH effort
 - Over \$850M to be obligated in FY2019
- 12 NIH Institute and Centers leading 26 HEAL research projects
 - Over 20 collaborating Institutes, Centers and Offices
 - From prevention research, basic and translational research, clinical trials, to implementation science
 - Multiple projects integrating research into new settings
- Released 40+ funding announcements for FY2019

HEAL Initiative Research Overview



Improving Prevention and Treatment Strategies for Opioid Addiction

- Expand therapeutic options for opioid addiction and overdose
 - New, more user-friendly formulations of existing medications
 - Longer duration, more powerful overdose-reversers
 - New approaches to reverse respiratory depression
 - Immunotherapies for opioids to prevent relapse and overdose
 - New targets and approaches for treating Opioid Use Disorder (OUD)



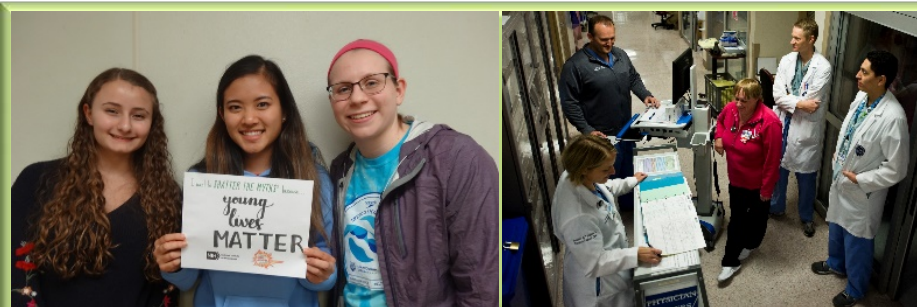
Improving Prevention and Treatment Strategies for Opioid Addiction

- Enhance Treatments for Affected Newborns with Neonatal Abstinence Syndrome/ Neonatal Opioid Withdrawal Syndrome (NOWS)
 - Advancing Clinical Trials in Neonatal Opioid Withdrawal Syndrome
 - ACT NOW Study
 - Understanding the long-term consequences of early opioid exposure
 - HEALthy Brain and Cognitive Development (BCD) Study



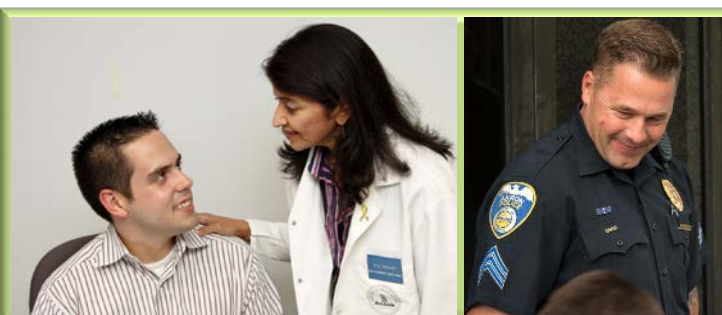
Improving Prevention and Treatment Strategies for Opioid Addiction

- Develop New and Improved Prevention & Treatment Strategies
 - Preventing at risk adolescents from transitioning to OUD as they transition to adulthood
 - Understanding the role of sleep dysfunction in OUD and recovery
 - Managing opioid misuse and low severity OUD
 - Determining the optimal length of medication treatment for OUD
 - Optimizing collaborative care for people with OUD and common mental disorders



Improving Prevention and Treatment Strategies for Opioid Addiction

- Optimize Effective Treatments
 - Enhancing the NIDA Clinical Trials Network to address opioids
 - Promoting innovation in the criminal justice system
 - Justice Community Opioid Intervention Network
 - Understanding the role of behavioral health interventions
 - Behavioral Research to Improve Adherence to Medication-based treatment for OUD
- Integrating multiple evidence based interventions in communities
 - The HEALing Communities Study



Enhancing Pain Management

- Pre-Clinical Research in Pain Management

- Accelerate the discovery and development of non-addictive treatments for pain

- Understanding the origins of chronic pain

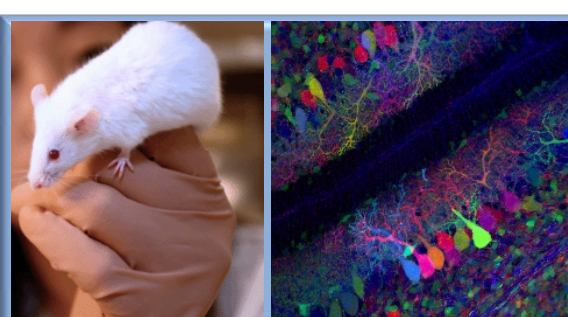
- Acute to Chronic Pain Signatures Program

- Discovery and validation of novel targets for safe and effective pain treatment

- Biomarkers, signatures and endpoints for pain

- Translating discoveries into effective devices for pain treatment

- Engineering preclinical screening platforms + novel drug development



Enhancing Pain Management

- Clinical Research in Pain Management

- Characterize populations of patients with pain conditions
- Test novel treatments in a new clinical trials network
 - Early Phase Pain Investigation Clinical Network (EPPIC Net)
 - Back Pain Research Consortium
- Establish best strategies for management of acute and chronic pain
 - Pain Management Effectiveness Research Network
 - Integrated approach to pain and opioid use in hemodialysis patients
 - Pragmatic and Implementation Studies for the Management of Pain

