

Institute of **C**linical and
Translational **S**ciences

Opioid Working Group Directory

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Prevent Addiction through Enhanced Pain Management

Understanding Origins of Chronic Pain

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Helping to End Addiction Long-term (HEAL) Initiative

<https://www.nih.gov/research-training/medical-research-initiatives/heal-initiative>

NIH is nearly doubling funding for research on opioid misuse/addiction and pain from approximately \$600 million in fiscal year 2016 to \$1.1 billion in fiscal year 2018.*

*There are not any specific funding opportunities listed on the HEAL website yet.

Prevent Addiction through Enhanced Pain Management:

- **Understanding Origins of Chronic Pain**
 - *Launch a longitudinal study* to follow patients 1) after acute onset of musculoskeletal pain and 2) after surgery to identify biomarkers that can predict those individuals who are more likely to transition from acute to chronic pain.
 - *Advance understanding of the genetic and social factors* that put patients at risk for opioid misuse and addiction to inform precision prevention strategies tailored to individual risk factors.
 - *Leverage innovative imaging and -omics neurotechnologies* developed through the [NIH BRAIN Initiative](#) and [SPARC](#) initiatives to identify potential new targets and approaches for treatment of chronic pain and objective biomarkers to predict which individuals will respond to a treatment.

- **New Treatments for Pain**
 - *Pursue public-private partnerships* to develop new non-addictive pain medicines by sharing data on past and present research projects, and matching researchers with a selection of potentially promising but abandoned pharmaceutical industry compounds to explore their effectiveness for the treatment of pain.
 - *Build a clinical trials network* that will allow multiple new and repurposed compounds to be tested simultaneously for effectiveness.
 - *Establish a standardized platform* for validating new drug targets.
 - *Facilitate the development of devices* to treat pain.
 - *Develop new models or improve current models of integrated pain management.*
 - *Collect and disseminate evidence on best pain management strategies* for multiple different and distinct chronic pain conditions likely to be treated with opioids, such as back pain, osteoarthritis, complex regional pain syndrome, diabetic neuropathy, pain associated with ME/CFS and sickle cell disease, vulvodynia, ocular and other craniofacial pain syndromes and others.

- **Enhance Clinical Practice in Pain Management**

- *Build on research* from the National Center for Complementary and Integrative Health, the U.S. Department of Veterans Affairs, and Department of Defense [research collaborative](#) to address the needs of service members and veterans.
- *Expand Centers of Excellence in Pain Treatment and Education.*
- *Enhance medical and dental education* by working with schools, board exam preparation organizations, accreditation entities, CME programs, healthcare systems, practices, hospitals, and clinics.

Improve Treatments for Opioid Misuse Disorder and Addiction:

- **Precision Prevention**

- *Enhance understanding of vulnerability to addiction* through the analysis of longitudinal data of patients prescribed opioid medication.
- *Comprehensively study genomic variation* that is predisposing to opioid use disorder (OUD) to be able to predict which individuals are most likely to develop OUD.

- **New Treatments for Addiction**

- *Expand treatment options for MAT* through the development of new formulations and combinations of effective treatments.
- *Develop novel immunotherapies* (vaccines and/or monoclonal antibodies) using comprehensive knowledge of the immune system, to neutralize opioids and prevent relapse when provided to patients in combination with MAT.
- *Develop additional endpoints* for studies of treatment for opioid addiction, taking into account the patient experience and needs for long-term recovery.

- **Overdose Prevention and Reversal**

- *Enhance overdose reversal agents* to save lives in the face of increasingly widespread illicit use of synthetic opioids.
- *Develop devices to automatically reverse overdose in high-risk patients.*

- **Enhance Treatments for Mothers and Infants**

- *Evaluate optimal management strategies for pregnant women* with an OUD.
- *Expand the Advancing Clinical Trials in Neonatal Opioid Withdrawal Syndrome (ACT NOW) project and tap into the Environmental Child Health Outcomes and IDeA States Pediatric Clinical Trials Network* to learn how to best to treat and

manage opioid withdrawal in newborns, and determine long-term consequences on development, and possible management strategies.

- **Optimize Effective Treatments**

- *Develop additional options for treatment of addiction*, in collaboration with the private sector and federal and state partners.
- *Assess the additive role of social and behavioral interventions to MAT programs.*
- *Test the implementation of strategies to treat opioid use disorder* through adaptive trials in various community settings.
- *Employ pilot studies* for adoption of best practices across multiple healthcare settings, such as primary care practitioners, emergency rooms, state health departments, treatment programs, and the criminal justice system.
- *Launch major demonstration projects* in communities highly affected by the opioid crisis.

Arpana Agrawal

Washington University School of Medicine

Professor

arpana@wustl.edu, 314-286-1778

Research and background interests:

As an addiction geneticist, I am particularly interested in understanding what biological factors predispose individual to experiment with drugs and further isolate factors that lead to addictions. Identifying genetic contributors to resilience to highly addictive drugs, such as opioids, could provide insights into the etiology of addiction and further, outline pathways to precision treatment. With Professor Nelson, I am involved in two projects aimed at identifying genetic loci that contribute to risk (overdose death) and resilience (interruption in progression from misuse to dependence) for opioids.

HEAL topics of interest

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, New Treatments for Addiction, Overdose Prevention and Reversal, Enhance Treatments for Mothers and Infants

Ream Al-Hasani

Center for Clinical Pharmacology, St. Louis College of Pharmacy and
Washington University in St. Louis

Assistant Professor

al-hasanir@wustl.edu, 314-446-8158



Research and background interests:

The Al-Hasani Lab strives to elucidate the neurocircuitry underlying addiction, stress, chronic pain and analgesia, specifically focusing on the role of the opioid peptide system to identify new targets for novel pharmacotherapies. The US is amidst an opioid epidemic, with Missouri being one of the most afflicted States. The high incidence of relapse, which prevents abstinence is particularly striking.

The Al-Hasani Lab believes that to prevent relapse, we must better understand the severity of the withdrawal syndrome that accompanies opioid cessation. This often precludes success in quitting but little is understood about the regulation of this negative affective state. Dr. Al-Hasani is currently using in vivo optogenetic behavioral models to study the role of the dynorphin/kappa opioid receptor system in the modulation of negative affective behaviors in opioid withdrawal. Dr. Al-Hasani is also actively studying the role of the dynorphin/kappa opioid receptor system in chronic pain states and looking at the intersect with opioid addiction and abuse. Finally, the Al-Hasani Lab is collaborating with chemists to develop new methods to detect peptide release in freely moving animals.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain, New Treatments for Pain

Improve Treatments for Opioid Misuse Disorder and Addiction: New Treatments for Addiction, Overdose Prevention and Reversal, Enhance Treatments for Mothers and Infants, Optimize Effective Treatments

Victoria Anwuri

Institute for Public Health

Associate Director

vanwuri@wustl.edu, 314-747-9206

Research and background interests:

HEAL topics of interest

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, Overdose Prevention and Reversal, Enhance Treatments for Mothers and Infants, Optimize Effective Treatments

Phillip Asaro

Washington University

Assistant Professor

asarop@wustl.edu, 314-362-8988

Research and background interests:

I have an interest in health services research and have knowledge and experience in using data from emergency department records in research.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention

Jacob AuBuchon

Anesthesiology/Pain Management

Assistant Professor

jdaubuchon@wustl.edu, 314-457-3144

Research and background interests:

I am primarily a clinician. However, I am involved in a few research projects that include enhanced recovery after surgery (pediatric urologic cases), a care path for posterior spinal fusion in idiopathic scoliosis, and a few other areas in the perioperative setting to reduce opioids through adjuvant medication and regional anesthesia.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain, New Treatments for Pain, Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Enhance Treatments for Mothers and Infants, Optimize Effective Treatments

Naazia Azhar

WU - Psychiatry

Instructor

azharn@wustl.edu, 917-974-4438

Research and background interests:

I work part-time at Wash U inpatient psychiatry. My full time job is at the St Louis VA where I work in the Opioid Addiction Treatment Program prescribing methadone, buprenorphine and naltrexone. I am interested in all things related to opioid addiction.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, New Treatments for Addiction, Overdose Prevention and Reversal, Enhance Treatments for Mothers and Infants, Optimize Effective Treatments

Ernie-Paul Barrette

Washington University

Associate Professor

ernie-paulbarrette@wustl.edu, 314-454-8225

Research and background interests:

HEAL topics of interest

Mikhail Berezin

Washington University

Associate Professor

berezinm@wustl.edu, 314-747-0701



Research and background interests:

My lab investigates the mechanism of chemotherapy induced peripheral neuropathy (CIPN) and cachexia in animal models. We are also interested in developing therapies (both pharmacological and non-pharmacological) to minimize chronic pain associated with CIPN. We apply imaging, behavioral, electrophysiological, and other assays to study the mechanism and validate potential targets.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain, New Treatments for Pain

Daniel Berg

Family Care Health Centers

Physician/Internist

dberg@fchcstl.org, 314-602-4599/314-353-5190



Research and background interests:

I am a primary care clinician at a federally qualified health center caring for patients with opiate use disorder as well as patients with chronic pain. In terms of addiction therapy, I have been prescribing buprenorphine in conjunction with a care team consisting of a peer counselor, addictions counselor, social worker, psychologist and psychiatrist. I do not have a research background in this field.

HEAL topics of interest

Improve Treatments for Opioid Misuse Disorder and Addiction: Optimize Effective Treatments

Laura Bierut

Washington University

Alumni Endowed Professor of Psychiatry

laura@wustl.edu, 314 362-3492



Research and background interests:

As a physician scientist, I have led several studies funded by the National Institutes of Health (NIH) to study environmental and genetic contributions to smoking behaviors, addiction and other psychiatric and medical illnesses. I am an active member in the NIDA Genetics Consortium, a national group of scientists who are leading NIDA's efforts to understand genetic causes of substance dependence. My research group conducted the initial studies which found that the $\alpha 5$ nicotinic receptor subunit genes on chromosome 15 and the $\alpha 6\beta 3$ nicotinic receptor subunit genes on chromosome 8 increase a smoker's risk for nicotine dependence. In collaboration with other groups, we have since demonstrated that the same genetic variants that contribute to smoking in the chromosome 15 region also influence the development of lung cancer and chronic obstructive pulmonary disease. We are currently exploring how to translate genetic information to guide more effective clinical care. We have ongoing studies of genetic factors and smoking cessation treatment.

HEAL topics of interest

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention

Donald Bohnenkamp

Washington University School of Medicine, Department of Psychiatry

Assistant Professor

bohnend@wustl.edu, 314-372-6513



Research and background interests:

I do mostly clinical and educational work in treating opioid addiction- more specifically, I treat cases of addiction that present to the psychiatric inpatient unit and opioid addiction in pregnant and post-partum women in the outpatient clinic. I also give the medical students a 2 hour lecture on addiction during the second year of medical school.

HEAL topics of interest

Improve Treatments for Opioid Misuse Disorder and Addiction: New Treatments for Addiction, Enhance Treatments for Mothers and Infants, Optimize Effective Treatments

Michael Bottros

WU Anesthesiology/Pain Medicine

Associate Professor/Associate Chief of Pain Medicine/Director of Acute Pain Service

bottros@wustl.edu, 314-747-0202

Research and background interests:

HEAL topics of interest

Derek Brown

Washington University, Brown School

Associate Professor

dereksbrown@wustl.edu, 314-935-8651



Research and background interests:

I am a health economist and health services researcher, with particular interest in Medicaid policy, access to health care, and disparities. I am interested in studying how health insurance, incentives, and other structural factors may affect both the risk of developing a disorder as well as effective treatments. I also have considerable experience in economic evaluation, including cost-effectiveness and cost-benefit analyses which may be applicable to various studies in this area. Currently, I am working on two different health services studies around substance use and OUD.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, New Treatments for Addiction, Optimize Effective Treatments

Michael Brunt

WU Medicine – Surgery

Professor

bruntm@wustl.edu, 314-308-3074



Research and background interests:

Our group has published two studies on use of opioids post discharge after abdominal surgery. We have demonstrated that most patients only use a small fraction of the opioids prescribed. We currently have a study funded from the BJH Foundation to evaluate the usage across 3 different general surgery services, followed by development of an educational intervention and guideline development for prescribing opioids after surgery for surgical residents and faculty, and then a follow-up study to assess the impact of that. I have also collaborated with Dr. Evan Kharasch and Dr. Helga Komen in the Department of Anesthesiology on the impact of methadone administration in the operating room on postoperative opioid use.

HEAL topics of interest

Improve Treatments for Opioid Misuse Disorder and Addiction: Optimize Effective Treatments

Christopher Carpenter

Washington University in St. Louis School of Medicine, Emergency Care Research Core

Associate Professor, Emergency Medicine

carpenterc@wustl.edu, 314-362-7979



Research and background interests:

Chris is dual-board certified in Emergency Medicine and Internal Medicine and is an Associate Professor in Emergency Medicine at Washington University in St. Louis. His funded research interests include diagnostics, dementia, falls prevention, and implementation science. He is Deputy Editor-in-Chief of Academic Emergency Medicine, Associate Editor of both Annals of Internal Medicine's ACP Journal Club and the Journal of the American Geriatrics Society. He is also on the editorial board of Missouri Medicine where he is leading a series exploring multidisciplinary solutions to the opioid epidemic at a statewide level in response to the August 2017 Lawrence Lewis Symposium archived at <https://emed.wustl.edu/larry-lewis-symposium/Lecture-Videos>. He co-led development of the EQUATOR Network Standards for Reporting of Implementation Research (StaRI) reporting guidelines. Google Scholar Link: <https://scholar.google.com/citations?user=mDjG2hwAAAAJ&hl=en> Professional Website: http://emed.wustl.edu/carpenter_christopher/LabHome.aspx

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: New Treatments for Pain

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, New Treatments for Addiction

Patty Cavazos-Rehg

Washington University School of Medicine

Associate Professor

pcavazos@wustl.edu, 314-362-2152



Research and background interests:

Dr. Patricia Cavazos-Rehg is a clinically-trained licensed psychologist who has been involved in biomedical research for over 10 years. After receiving her Ph.D. in Psychology from SUNY at Buffalo in 2004, she moved to Washington University School of Medicine (WUSM) in St. Louis, MO to begin her research career, focusing on understanding how policy and social media shape health risk behaviors of young people. She is committed to utilizing social media for online, accessible, and timely outreach that could facilitate new and more rapid responses in mental health promotion, prevention, and harm reduction initiatives. In addition to her research, she is also a dedicated Associate Professor and the Director of WUSM's Mentored Training Program in Clinical Investigation where she promotes the career development of junior faculty and postdoctoral fellows.

HEAL topics of interest

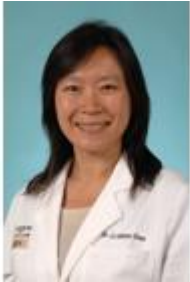
Improve Treatments for Opioid Misuse Disorder and Addiction: New Treatments for Addiction, Overdose Prevention and Reversal, Enhance Treatments for Mothers and Infants

Li-Shiun Chen

Washington University School of Medicine, Department of Psychiatry

Associate Professor

chenli@psychiatry.wustl.edu, 314-362-3932



Research and background interests:

EHR-facilitated decision support tools for implementation of evidence based treatment

HEAL topics of interest

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, Optimize Effective Treatments

Liz Chiarello

Saint Louis University

Assistant Professor of Sociology

liz.chiarello@slu.edu, 314-977-2725



Research and background interests:

I am an Assistant Professor of Sociology at Saint Louis University. I have a PhD in Sociology from UC Irvine and an MEd in Counseling Psychology from the University of Oregon. I also spent two years as a postdoctoral research fellow at Princeton University. I am a medical sociologist and socio-legal scholar conducting research at the intersection of healthcare and law. I examine the opioid crisis as a case for understanding how two fields--healthcare and criminal justice--contend with a shared social problem and how they work cooperatively and combatively while doing so. My current project, supported by an NSF CAREER Award, focuses on how technology affects professional work, especially how healthcare and enforcement workers use PDMP in daily practice.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: New Treatments for Pain, Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Overdose Prevention and Reversal

Theodore Cicero

Washington University School of Medicine

Professor

cicerot@wustl.edu, 314-362-0459



Research and background interests:

Dr. Theodore J. Cicero received his PhD in Neuropharmacology from Purdue University in 1969 and began his career at Washington University in St. Louis, School of Medicine in 1968 as a post-doctoral fellow where he rose to Professor of Psychiatry, Anatomy and Neurobiology in 1978. Cicero serves as Vice Chairman for Research in the department of Psychiatry and was appointed Vice Chancellor for Research for Washington University in 1996, serving until 2006. Dr. Cicero is a life fellow of the American College of Neuropsychopharmacology, past president and Treasurer of the College on Problems of Drug Dependence (CPDD). He was also recently awarded the Nathan B. Eddy Award from CPDD for lifetime achievement in substance abuse research. As of July 1, 2015, he received an endowed chair as the John P. Feighner Professor of Psychiatry at Washington University in St. Louis. Much of his work has focused on neurobiological substrates of dependence and abuse of drugs (opiates and alcohol) in animal models. More recently, over the past 25 years, his focus has been on the epidemiology of opiate abuse, beginning with the emergence of the prescription drug problem in the 1990's to the recent transition of heroin abuse from an inner city problem in poor, minority males to an epidemic in white, middle class male and female residents of suburban and rural locations. In addition to his university and other scientific positions, Cicero has also served on the Board of Scientific Counselors of the National Institute for Drug Abuse and was an expert advisor to the World Health Organization Substance Abuse Advisory Group. He is also a past chairperson of the Food and Drug Administration Drug Abuse Advisory panel (1985 – 1993).

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain

Improve Treatments for Opioid Misuse Disorder and Addiction: New Treatments for Addiction

Thomas Ciesielski

Washington University in St. Louis

Assistant Professor

t.ciesielski@wustl.edu, 314-362-8065



Research and background interests:

Understanding risk factors associated with developing opioid abuse or misuse.

Understanding prescribing patterns of opioids.

Demonstrating reductions in opioid prescribing through various interventions.

HEAL topics of interest

Scott Coon

St. Louis College of Pharmacy

Assistant Professor/Clinical Pharmacist

Scott.coon@stlcp.edu, 314-446-8578

Research and background interests:

My current research interests include: use of medication assisted therapy for OUD in underserved settings, novel approaches to opioid withdrawal suppression (e.g. using tramadol), and use of cannabis for medical and nonmedical purposes.

St. Louis College of Pharmacy, St. Louis County Department of Public Health

HEAL topics of interest

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, New Treatments for Addiction, Overdose Prevention and Reversal, Optimize Effective Treatments

Anthony D'Agostino

Criminal Justice Ministry

Executive Director

anthonyd@cjmstlouis.org, 314-503-1770

Research and background interests:

HEAL topics of interest

Ann Marie Dale

Washington University

Associate Professor

amdale@wustl.edu, 314-454-8470



Research and background interests:

I am an occupational health researcher with a primary interest in studying interventions to prevent opioid misuse among high-risk worker populations. I am currently using pharmacy and claims data from a union's health fund to identify the pattern of opioid use and initiating diagnoses. The data will also be used to evaluate changes in prescriptions after starting an opioid prescription policy to restrict supply with the initial fill. I am interested in primary prevention as well as medical management of workers with chronic pain, likely due to work-related activities.

I have access to working populations and their union health claims. I am also working with several individuals at the local and state levels to find ways to collaborate on research.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: New Treatments for Pain, Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, New Treatments for Addiction, Overdose Prevention and Reversal, Optimize Effective Treatments

Caroline Day

Family Care Health Center

Chief Medical Officer

cday@fchcstl.org, 314-481-1615 ext. 1309

Research and background interests:

HEAL topics of interest

Michael Durkin

Washington University School of Medicine

Assistant Professor

mdurkin@wustl.edu, 314-454-8223



Research and background interests:

I'm an infectious diseases physician with a public health background. I have experience using large administrative datasets to evaluate prescribing practices. I have published a few manuscripts evaluating opioid prescribing practices with national and local data.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, Optimize Effective Treatments

Sarah Eisenstein

Washington University School of Medicine

Assistant Professor

seisens@wustl.edu, 314-362-7107



Research and background interests:

I study behavioral and neurobiological underpinnings of psychiatric disease. In regards to opioids, I will be studying whether individuals with persistent pain have altered kappa opioid receptor levels in the brain using PET with a kappa receptor antagonist radioligand.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: New Treatments for Pain

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, New Treatments for Addiction

Kelly Gable

SIUE School of Pharmacy

Associate Professor

kgable@siue.edu, 323-401-5257



Research and background interests:

Dr. Gable is an Associate Professor of Pharmacy Practice at SIUE School of Pharmacy. She serves as a consultant on the Missouri State Targeted Response to the Opioid Crisis grant. She practices as a psychiatric care provider at Family Care Health Centers in St. Louis, Missouri.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain

Improve Treatments for Opioid Misuse Disorder and Addiction: New Treatments for Addiction, Overdose Prevention and Reversal, Optimize Effective Treatments

Brian Gage

WUSTL

Professor

bgage@wustl.edu, 314-454- 8697

Research and background interests:

Prevention of opioid addiction

HEAL topics of interest

Robert Gereau

Washington University School of Medicine

Dr. Seymour and Rose T. Brown Professor

gereaur@wustl.edu, 314-362-8312

Research and background interests:

I am the Director of the Washington University Pain Center, and Chief of the Division of Basic Research for the Department of Anesthesiology. My research program is a translational program spanning preclinical studies in mice and rats to identify mechanisms of maladaptive plasticity in the brain mediating the development of chronic pain as a basis for identifying targets for novel analgesic development, translational studies in human tissues and healthy human volunteers, and early stage proof of concept clinical trials testing novel analgesics in patient populations.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain, New Treatments for Pain, Enhance Clinical Practice in Pain Management

Mark Gold

McKnight Brain Institute, University of Florida

Emeritus Eminent Scholar

drmarkgold@gmail.com, 904-955-7079

Research and background interests:

I have worked in translational research related to addictions since the '70s with our Locus Coeruleus studies, invention of clonidine as a non-opioid treatment for opioid withdrawal and subsequent work on Naltrexone, Lofexidine and Impaired MD addicts.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: New Treatments for Pain

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, New Treatments for Addiction

Misty Gonzalez

BJH/SIUE

Psychiatric clinical pharmacist

Misty.gonzalez@bjc.org, 314-305-6650

Research and background interests:

I am an inpatient psychiatric clinical pharmacist and work with patients who may have comorbid OUD. I am developing an inpatient opioid withdrawal order set and am consulted to facilitate withdrawal orders.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, New Treatments for Addiction, Overdose Prevention and Reversal, Enhance Treatments for Mothers and Infants, Optimize Effective Treatments

Chet Hammill

Washington University, Department of Surgery

Associate Professor of Surgery

hammillc@wustl.edu, 314-273-1809



Research and background interests:

My research has been focused on minimizing the impact of surgery through improvements in surgical procedures and improving post-surgical care.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: New Treatments for Pain, Enhance Clinical Practice in Pain Management

Simon Haroutounian

Washington University School of Medicine, Dept. of Anesthesiology

Chief of Clinical Research, WU Pain Center

sharout@wustl.edu, 314-286-1715



Research and background interests:

I am coming from clinical pharmacy/pharmacology background. My research focuses on targeted prevention of chronic pain in the setting of surgery (i.e. persistent post-surgical pain) and chemotherapy for cancer (i.e. chemotherapy-induced peripheral neuropathy). In addition we are interested in understanding clinically-relevant mechanisms of neuropathic pain, and in the development of personalized, mechanism-based pharmacotherapy approaches for treating pain.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain, New Treatments for Pain, Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, Optimize Effective Treatments

Sarah Hartz

Washington University

Assistant Professor

hartzs@wustl.edu, 314-805-4575

Research and background interests:

HEAL topics of interest

Ammar Hawasli

Washington University

Assistant Professor

hawasli@wustl.edu, 314-747-6144



Research and background interests:

I am a spinal neurosurgeon with an interest in managing spinal disorders including axial back pain. I am seeking to mitigate chronic opioid use in patients with spinal disorders. I clinically specialize in the surgical treatment of disorders of the craniocervical junction, cervical, thoracic and lumbar spine. Expertise in degenerative spinal disease, spondylosis, spondylolisthesis, spinal tumors, metastatic cancer, inflammatory disorders, ankylosing spondylitis, rheumatoid arthritis, infections, spinal deformity, neurotrauma, spinal cord injury, minimally invasive spine surgery, complex spinal instrumentation and reconstruction, arthroplasty, and microsurgery for brain tumors and spinal cord tumors. The foundation of spinal surgery research has focused on biomechanical studies and not yet utilized the skills natural to neurosurgeon scientists. Our research lab utilizes our experiences in neuroscience, neurosurgery and spine surgery to study how the diseases of the spine affect the brain and changes in the brain affect the spine. Some inroads have been made in this general field by functional neurosurgeons and pain medicine specialists. However, the research is relatively scarce and cannot be translated into clinical medicine. With advances in human systems neuroscience and advanced magnetic resonance imaging research, we are now able to map human brain networks and directly apply these networks to human disease and clinical practice. Efforts in functional neuroimaging and machine learning at Washington University and a handful of other institutions have directly impacted how we practice neurosurgery. We utilize such powerful methods along with validated clinical outcome measures to study the spine—brain relationship. One in five visits to a primary care doctor is for back pain. The prevalence of lower back pain is thought to be near 15-30%. Estimated health care costs for back pain in the United States are thought to exceed \$1 trillion each year. Patients will often receive MRIs of the lumbar spine and a subsequent neurosurgical referral. For a small portion of these patients, surgical decompression of central or foraminal spinal nerves can remedy neurogenic claudication or radiculopathy. In other select patients, surgical treatment of sagittal or coronal imbalance offers some benefits. However, for the majority of patients with back pain, there is no clear surgical remedy. Spine surgeons' anecdotal experiences and recent data suggests that mental health, psychology and centrally-mediated factors can be used to prognosticate a benefit from lumbar spine surgery. Consistent with our laboratory method, we seek to determine how lower back pain alters cerebral architecture and connectivity and develop non-invasive biomarkers to predict recovery and guide therapy.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain, New Treatments for Pain, Enhance Clinical Practice in Pain Management

Amanda Hays

BJC HealthCare

System Pharmacy and Outcomes Manager

Amanda.Hays@bjc.org, 314-267-5419



Research and background interests:

I am a pharmacist with experience in leading medication outcomes related efforts for BJC. I have been requested to lead and coordinate efforts across the 15 hospital systems for all opioid related issues. We have been identifying opportunities to improve prescribing practices, explore opportunities to increase and improve coordination for MAT, and optimize pharmacy related retail practices to support harm reduction and changing legislations.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: New Treatments for Pain

Improve Treatments for Opioid Misuse Disorder and Addiction: New Treatments for Addiction, Overdose Prevention and Reversal, Enhance Treatments for Mothers and Infants

Christopher Herndon

Southern Illinois University Edwardsville

Professor

cherndo@siue.edu, 618-650-5116



Research and background interests:

Chris Herndon, PharmD, BCACP is a Professor with the Southern Illinois University Edwardsville (SIUE) School of Pharmacy. Currently, Dr. Herndon sees chronic pain patients in a multidisciplinary setting within a family medicine residency clinic. Dr. Herndon's scholarship interest focuses primarily on pain and palliative care education and he is the Principal Investigator for the National Institutes of Health Center of Excellence in Pain Education at SIUE. Dr. Herndon is the president-elect for the Society of Palliative Care Pharmacists. He is the 2006 recipient of the Pain Champion Award from the Alliance of State Pain Initiatives, the 2012 recipient of the Academic Pain Educator of the Year Award from the American Society of Pain Educators, the 2016 Pharmacist of the Year from the Illinois Pharmacists Association, and the 2018 recipient of the Distinguished Service Award from the American Pain Society.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: New Treatments for Pain, Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Overdose Prevention and Reversal, Optimize Effective Treatments

Jessica Justmann

Washington University

Instructor of Anesthesiology

jjustmann@wustl.edu, 925-457-8244

Research and background interests:

HEAL topics of interest

Michael Kelly

WUSM, Department of Orthopedics

Associate Professor

kellymi@wustl.edu, 314-747-2511

Research and background interests:

I am a spine surgeon in the Department of Orthopedics, treating adult spinal deformity. Nearly 1/4th of our patients begin chronic opioid use after adult spinal deformity surgery. I am interested in developing clinical pathways to ensure cessation as well as investigating the immunologic response to surgery which incites inflammation, causing prolonged pain and disability.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain, Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention

Stephen Liang

WU Medicine - Internal Medicine, Infectious Diseases

Assistant Professor

syliang@wustl.edu, 314-454-0750

Research and background interests:

I am particularly interested in the management of infectious diseases (bone & joint infection, endocarditis) in patients with opioid use disorder. Many of these patients require long-term IV antibiotics which presents challenges in the setting of intravenous drug use in terms of compliance, safety, and outcomes.

HEAL topics of interest

Improve Treatments for Opioid Misuse Disorder and Addiction: Overdose Prevention and Reversal, Optimize Effective Treatments

Steve Liao

Washington University School of Medicine

Assistant Professor

Steve.m.liao@wustl.edu, 314-454-2683

Research and background interests:

I am actively involved in the development and implementation of BJC wide Neonatal Abstinence Syndrome Management guideline.

HEAL topics of interest

Improve Treatments for Opioid Misuse Disorder and Addiction: Enhance Treatments for Mothers and infants

Susan Mackinnon

WUSM, Surgery

Professor

Mackinnons@wustl.edu, 314-362-4586

Research and background interests:

HEAL topics of interest

Susruta Majumdar

Center for Clinical Pharmacology

Associate Professor

susrutam@email.wustl.edu, 314-446-8162

Research and background interests:

HEAL topics of interest

Amit Mathur

Washington University School of Medicine

Professor of Pediatrics

mathur_a@wustl.edu, 314-454-4031

Research and background interests:

I am a board certified neonatologist with both a clinical and research interest in the post natal management of neonatal abstinence syndrome. Specifically, I am interested in understanding the electrophysiology and neuronal connectivity problems that underlie this disorder. I had received funding from the ICTS at WUSM to study the application of EEG monitoring in this population (2016-17). I lead a neonatal neurology and physiology research group in the Department of Pediatrics. We are a clinical and translational research group that is focused on understanding physiology of neonatal transition and cerebral autoregulation. I am the site PI, and co-PI of the neuroimaging core for an NINDS clinical trial of erythropoietin in neonatal hypoxic-ischemic encephalopathy.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: New Treatments for Pain, Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: New Treatments for Addiction, Enhance Treatments for Mothers and Infants, Optimize Effective Treatments

Jordan McCall

WUSTL/Center for Clinical Pharmacology

Assistant Professor

jordangmccall@wustl.edu, 314-446-8157



Research and background interests:

The long-term goal of my laboratory is to understand the neural mechanisms underlying chronic emotional dysregulation following traumatic events such as stress, injury, and addiction. We pursue these questions at multiple levels of investigation from synapses to behavior; with the ultimate goal of using a neural circuit-level understanding of the brain systems that are disrupted in neuropsychiatric and neurological disorders such as anxiety and chronic pain to reverse these conditions. When these questions become intractable, my laboratory develops new technology to interface the nervous system, and is exploring new approaches to data analysis to ensure we are ascertaining the most possible information from our data. We have particular interests in the endogenous opioid peptide/receptor systems and the central noradrenergic system.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain, New Treatments for Pain

Improve Treatments for Opioid Misuse Disorder and Addiction: New Treatments for Addiction, Overdose Prevention and Reversal

Anna Miller

WUSTL

Associate Professor

milleran@wustl.edu, 314-747-2811

Research and background interests:

orthopedic trauma surgeon who deals with patients taking illicit drugs almost daily

HEAL topics of interest

Improve Treatments for Opioid Misuse Disorder and Addiction: New Treatments for Addiction, Overdose Prevention and Reversal

Carrie Mintz

Washington University in St Louis School of Medicine

Physician

mintzc@wustl.edu, 314-273-2595

Research and background interests:

I have participated in research during my undergraduate, medical school, and psychiatry residency years. Currently a post-doctoral fellow and Instructor in Psychiatry, my current research interests focus on opioid addiction. More specifically, I am interested in the clinical correlates of persons with opioid use disorder and how they have changed over time. I am currently working with data from the National Survey on Drug Use and Health to address this issue; insights gained from this study will provide helpful information for identifying those most at risk for developing opioid use disorder and help target prevention efforts.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain, New Treatments for Pain, Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, New Treatments for Addiction, Overdose Prevention and Reversal, Enhance Treatments for Mothers and Infants, Optimize Effective Treatments

D.P. Mohapatra

Washington University School of Medicine

Associate Professor of Anesthesiology

d.p.mohapatra@wustl.edu, 314-362-8229



Research and background interests:

Preclinical and translational research on pain mechanisms and therapeutics. Mechanistic studies on pain neurobiology, neuro-immune interactions in pain, and identification-validation of novel non-opioid therapeutic targets for chronic pain associated with neuropathy and cancer.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain, New Treatments for Pain

Mike Montana

Washington University, Department of Anesthesiology

Faculty instructor

montana@wustl.edu, 314-565-8119



Research and background interests:

I am a practicing pediatric anesthesiologist. I have a PhD in neuroscience with a focus on analgesic mechanism of action and the development of chronic pain. One of my primary research focuses is in the development of novel, non-opioid analgesics for use in humans. The second avenue of research is on the optimization of existing analgesics, including opioids, in patient populations at high risk for respiratory compromise.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain, New Treatments for Pain, Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Overdose Prevention and Reversal, Optimize Effective Treatments

Jose Moron-Concepcion

Washington University

Associate Professor

jmoron-concepcion@wustl.edu, 314-362-0018



Research and background interests:

Overall, research in my laboratory has forwarded the innovative concept that pain and chronic opioids converge on overlapping systems and induce a common plasticity that results in pain hypersensitivity and the negative affect that drives the compulsive behavior that is opioid addiction. We are delineating these systems using cutting edge approaches. By studying this plasticity at multiple levels of analysis, our laboratory is identifying substrates that are integral to understanding how the processes of addiction, pain hypersensitivity and negative affect are intertwined.

HEAL topics of interest

Improve Treatments for Opioid Misuse Disorder and Addiction: New Treatments for Addiction, Overdose Prevention and Reversal, Optimize Effective Treatments

Abu Mosa

University of Missouri

Director, Research Informatics

mosaa@health.missouri.edu, 573-882-8349

Research and background interests:

Dr. Abu Saleh Mohammad Mosa, PhD is the Director of Research Informatics at the University of Missouri (MU) School of Medicine and Assistant Research Professor of Health Informatics. Dr. Mosa is an affiliate faculty member of the MU Informatics Institute and Adjunct Faculty member of the MU Electrical Engineering and the Computer Science department. Dr. Mosa's research area includes informatics infrastructure development for clinical research, mining massive and unstructured data, mining clinical data, mobile health (mHealth), patient reported outcome, Big Data to Knowledge (BD2K), and Big Data for Patients (BD4P). Dr. Mosa obtained his Bachelor's degree in Computer Science and Engineering from the Bangladesh University of Engineering and Technology (BUET), followed by Master's degree in Computer Science from the University College Dublin (UCD) and Doctoral degree in Health Informatics from the University of Missouri (MU). He is the lead informatician for building the research informatics infrastructure at the University of Missouri (MU) School of Medicine. This has involved developing MU's capabilities to implement REDCap, i2b2 (over 600,000 patients' records from the EMR), HealthFacts (a de-identified data set with over 60 million patient records pulled from Cerner clients), SAS 9.4 data analytic server, and HIPAA compliant high performance computing capabilities. Dr. Mosa is currently collaborating on an AHRQ funded project for improving patient centered care of chronic pain through an innovative method called "photo-elicitation". He is also currently working on implementing a clinical workflow for capturing patient reported outcome data electronically for chronic pain.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain, New Treatments for Pain, Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, Overdose Prevention and Reversal, Optimize Effective Treatments

Emily Mukherji

Washington University in St. Louis

Instructor in Psychiatry

emilymukherji@wustl.edu, 314-286-1700



Research and background interests:

I am interested in improving our psychiatry residency training in the treatment of opioid use disorder as well as improving access to MAT and naloxone for patients with opioid use disorder. I have my buprenorphine waiver and prescribe buprenorphine to outpatients with opioid use disorder, including pregnant patients seen through the Perinatal Behavioral Health Service. I would like it if there were more opportunities for residents to get experience prescribing buprenorphine to outpatients with opioid use disorder, since this treatment is the standard of care and is shown to reduce mortality rates. Right now PGY3 residents are encouraged to refer out patients with opioid use disorder for MAT.

We are doing one quality improvement project right now on expanding access to naloxone in patients with opioid use disorder seen by our Psychiatry Consult Liaison service.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, Overdose Prevention and Reversal, Enhance Treatments for Mothers and Infants, Optimize Effective Treatments

Elliot Nelson

Washington University

Professor

nelsone@wustl.edu, 314-286-2220

Research and background interests:

I am involved in genetic studies of opioid and other drug dependence. I am also interested in identifying genes contributing to liability for opioid overdose death. I also would like to examine factors that predispose prescribed opioid users to misuse and dependence.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, Overdose Prevention and Reversal, Optimize Effective Treatments

Margie Olsen

Washington University

Professor of Medicine

molsen@wustl.edu, 314-454-8320



Research and background interests:

My research interests relevant to this topic revolves around the use of claims data to research the prevalence of prescription opioid use and opioid abuse, and prescription patterns in the U.S. The claims data can also be used to study comparative effectiveness of different treatment strategies. I focus on harnessing the wealth of existing data to study the epidemiology of opioid overuse and abuse.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: New Treatments for Pain, Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Optimize Effective Treatments

Kamlesh Patel

Washington University School of Medicine

Associate Professor

kamlesh.patel@wustl.edu, 314-747-1193



Research and background interests:

I am a craniofacial and pediatric plastic surgeon focusing on abnormalities of the head and neck, including cleft lip/palate, craniosynostosis and facial trauma. My research endeavors are focused on outcomes of surgical and clinical management of patients with orofacial clefts and other craniofacial abnormalities. I am also in the process of investigating the use of automated text messaging for precision pain management in patients with facial trauma. This is a high risk group for opioid dependence.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention

Rupa Patel

Washington University in St. Louis

Assistant Professor

rupapatel@wustl.edu, 314-454-8351

Research and background interests:

HEAL topics of interest

David Patterson Silver Wolf

Brown School

Associate Professor

dpatterson22@wustl.edu, 314-935-8317



Research and background interests:

Dr. David A. Patterson Silver Wolf, associate professor, joined Washington University in St. Louis' Brown School in 2012. Dr. Patterson Silver Wolf has over 15 years of experience in providing clinical, substance use disorder-related services and is currently a Faculty Scholar in the Washington University Institute for Public Health, Director of Community-Academic Partnership on Addiction (CAPA) and Faculty Director with the Collaboration on Race, Inequality, and Social Mobility in America (CRISMA) and Director of Research at the Buder Center. He investigates best ways to implement performance-based practices and technology tools in substance use disorder services along with addressing health and wellness issues in American Indian, underrepresented/underserved communities.

I am the director of Community-Academic Partnership on Addiction (CAPA) which partners with several substance use disorder treatment organizations in the St Louis region and surrounding states. I am implementing a new technology tool through CAPA to monitor patients with OUD and SUD as they receive treatment.

HEAL topics of interest

Improve Treatments for Opioid Misuse Disorder and Addiction: New Treatments for Addiction, Optimize Effective Treatments

Laurie Punch

Washington University in St. Louis School of Medicine

Associate Professor of Surgery

ljpunch@wustl.edu, 314-306-4378



Research and background interests:

I have a distant research background in physiology and neuroscience of opiate addition and withdrawal. I have a current interest in exploring optimal means of control acute pain after emergency general surgery and traumatic injury. I am developing a protocol for multi-modal peri-operative pain control for such patients. In addition I have extensive prior experience in the surgical management of soft tissue infection related to IV heroin use, and have interest in studying PRO's related to the experience of pain and the best ways treat to treat acute pain in the setting of opiate dependence.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: New Treatments for Pain, Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention

Alex Ramsey

Washington University School of Medicine

Assistant Professor of Psychiatry

aramsey@wustl.edu, 314-362-5370



Research and background interests:

I am an organizational psychologist and clinical scientist conducting research focused on the implementation of effective treatments for substance use disorders in clinical and community settings. With this organizational change perspective, my research has largely centered on the use of technology (mHealth tools, clinical decision supports) to facilitate the implementation and evaluation of evidence-based interventions for the prevention and treatment of substance use disorders. I have extended this research agenda into the field of genomics, applying implementation science approaches to integrate genomic discoveries for substance use disorders into clinical care and community settings.

HEAL topics of interest

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, Optimize Effective Treatments

Emily Rumora

Washington University

Instructor

erumora@wustl.edu, 314-705-9051

Research and background interests:

HEAL topics of interest

Daniela Salvemini

Saint Louis University

Professor

daniela.salvemini@health.slu.edu, 314-409-4336



Research and background interests:

Daniela Salvemini Ph.D, is Professor of Pharmacology and Physiology at Saint Louis University School of Medicine and Fellow of the Saint Louis Academy of Science. She received her B.Sc from Kings College in London and her Ph.D. from the University of London under the mentorship of the Nobel Laureate Professor Sir John Vane FRS. She spent over a decade in the private sector prior joining SLU where she led drug discovery efforts on anti-inflammatories and analgesics. Her lab uses a multidisciplinary basic science driven translational approach to identify novel non-narcotic analgesics for the treatment of chronic pain as stand-alone or as adjunct to opioids. Dr salvemini's research achievements are reflected in over two hundred peer-reviewed papers and book chapters (h index of 66 with >18,000 citations) and several awards including the Fellows Awards from the Saint Louis Academy of Science, Outstanding Scientist Award, for her contribution to chronic pain and opioid research. She is a reviewer for many scientific journals, a grant reviewer for the NIH and private foundations. Her lab is funded by grants from the NIH, foundations and the private sector.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain, New Treatments for Pain

Improve Treatments for Opioid Misuse Disorder and Addiction: New Treatments for Addiction

Jeffrey Scherrer

Saint Louis University School of Medicine

Professor

jeffrey.scherrer@health.slu.edu, 314-977-8486



Research and background interests:

My research in prescription opioids focuses on the link between chronic prescription opioid use and new onset depression and course of depression. Currently we are seeking funding to establish a new opioid user cohort to follow for 1 year which will allow us to determine why some but not all patients who use prescription opioids for >90 days develop depression and similar incident phenotypes.

My second area of interest is to determine the factors which maintain very long term prescription opioid use in patients without comorbid substance use disorder. Our goal is to determine barriers and facilitators to opioid taper and cessation among patients who have >1 year of continuous prescription opioid use. We intend to use data obtained from this patient population as well as physicians to develop an intervention designed to increase patient treatment seeking for iatrogenic opioid dependence.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, Optimize Effective Treatments

Evan Schwarz

Washington University School of Medicine

Associate Professor of Emergency Medicine, Section Chief of Medical Toxicology

schwarze@wustl.edu, 314-747-3690



Research and background interests:

I'm board certified in Emergency Medicine, Medical Toxicology, and Addiction Medicine. I'm in charge of the consult service that initiates MAT in the hospital, evaluates patients on MAT in our clinic, and set up the treatment program offered through the ED. I'm involved in research looking at the effect of these interventions in both patients in the ED and on the wards (generally patients on long term antibiotic therapy). I've also advocated for alternatives to opioids in the ED, and to that end, have been involved in research looking at ketamine as an alternative. Before lidocaine went on shortage, I was also working on setting up research further evaluating that as an opioid alternative. I'm also involved with the ACMT Addiction Medicine Committee, have presented at the annual meeting of the American Society of Addiction Medicine, and am on a task force for the American College of Emergency Physicians looking at alternatives to opioids. I'm also in charge of a recurring column for Missouri Medicine and ACEP Now about addiction as part of a knowledge translation process. I've also conducted other research in emergency medicine and medical toxicology.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: New Treatments for Pain, Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: New Treatments for Addiction, Overdose Prevention and Reversal, Enhance Treatments for Mothers and Infants, Optimize Effective Treatments

Karen Seibert

Center for Clinical Pharmacology

Professor and Executive Director

karenseibert@wustl.edu, 314-446-8422

Research and background interests:

Pharmacologist by training with areas of emphasis in pain, inflammation, drug discovery and development, especially in the area of antiinflammatory and analgesic agents. Heads a newly formed Center for Clinical Pharmacology between Washington University School of Medicine and the St Louis College of Pharmacy that has an area of focus in pain and addiction research.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain, New Treatments for Pain, Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, New Treatments for Addiction, Overdose Prevention and Reversal, Enhance Treatments for Mothers and Infants, Optimize Effective Treatments

Lori Setton

Washington University Engineering

Professor and Chair of BME

setton@wustl.edu, 314-935-6164



Research and background interests:

Our research employs tools of mechanical engineering, materials synthesis, and cell and molecular biology to advance use of drug depots and biomaterials as therapies for musculoskeletal pathology. We have experience with synthesizing novel drug depots for sustained release of non-opioids to reduce pain and dysfunction in musculoskeletal pathologies of arthritis and disc pathology. As part of this effort, we develop preclinical models of chronic degenerative disease and novel assessments of pain and dysfunction.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain, New Treatments for Pain

Lincoln Sheets

University of Missouri, School of Medicine

Director of Health Informatics

SheetsLR@health.missouri.edu, 417-860-1197



Research and background interests:

Lincoln Sheets is a physician and data scientist who is using data analytics and software development to reduce health disparities in the US and around the world.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain, New Treatments for Pain, Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, New Treatments for Addiction, Overdose Prevention and Reversal, Enhance Treatments for Mothers and Infants, Optimize Effective Treatments

Matthew Smith

WUSM, Orthopedics

Associate Professor

mvsmith@wustl.edu, 216-849-9425



Research and background interests:

I have participated in clinical research at Washington University and on a national level through several multi-center research groups since I started clinical practice in 2009. I am a member of the Multicenter Orthopaedics Outcome Network (MOON) study groups for the knee and shoulder. The work from these collaborations has resulted in numerous national orthopedic research awards. I also obtained a Masters of Science in Clinical Investigation from Washington University in St. Louis School of Medicine. Recently, I have completed research on opioid consumption after knee arthroscopy and ACL surgery to better understand opioid utilization after surgery. Orthopaedic surgeons are the third highest prescribers of opioid medications among physicians in the United States. Many of these prescriptions are for post operative pain control. Efforts to engage physicians in responsible opioid prescribing practices have been hampered by the paucity of data detailing opioid need after surgery. Currently, prescribers are left to estimate the number of pills that patients need after surgery. With over 2.5 million orthopaedic procedures performed per year, just 10 excess opioid pills results in 25 million unnecessary opioid pills introduced into the community each year for orthopaedic surgeries alone. Our goals have been aimed at identifying factors associated with higher opioid use, establishing prescribing guidelines for orthopedic surgeons that can be immediately implemented into practice and to develop educational programs targeted to address patient expectations for opioid use after surgery to reduce demand.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Optimize Effective Treatments

Sharon Spruell

Queen of Peace Center

CEO

Sspruell@ccstl.org, 314-531-0511 ext. 261

Research and background interests:

HEAL topics of interest

Raymond Tait

SLU - Psychiatry

Professor

raymond.tait@health.slu.edu, 314-977-4817

Research and background interests:

30+ year history of research in chronic pain. Recent interests include social and contextual factors that influence clinical decisions, including those that occasion disparities in care, pharmacotherapy, etc.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention

Simon Tang

Washington University in St Louis

Assistant Professor

tangs@wudosis.wustl.edu, 314-286-2664



Research and background interests:

Interested in the mechanical mechanisms of low back pain in humans; molecular pathways of inflammation in disc degeneration; pre-clinical models of low back pain.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention

Tim Trull

University of Missouri

Professor of Psychological Sciences

trullt@missouri.edu, 573- 999-2786



Research and background interests:

My expertise is in measuring pain in daily life (real-time), as well as measuring response to opioids in the natural environment.

We use smartphones, apps, and wireless sensors in our Ambulatory Assessment research for addictive behaviors.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: New Treatments for Pain, Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: New Treatments for Addiction, Optimize Effective Treatments

Bret Ulery

University of Missouri

Assistant Professor

uleryb@missouri.edu, 573-884-8169



Research and background interests:

We are working on developing novel biomaterials capable of controllably degrading into small molecules capable of facilitating prolonged analgesia.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: New Treatments for Pain

Improve Treatments for Opioid Misuse Disorder and Addiction: Optimize Effective Treatments

Linda van Dillen

WUSM, Program in Physical Therapy

Professor

vandillenl@wustl.edu, 314-286-1427



Research and background interests:

I am a Physical Therapist with PhD training in Experimental Psychology. I currently am a Professor in Physical Therapy and Orthopaedic Surgery at Washington University Medical School and Director, Research Division of the Program in Physical Therapy. The goal of our work is to understand how the musculoskeletal and nervous systems interact to contribute to the development, recurrence and persistence of musculoskeletal pain conditions across the lifespan. We also are interested in how psychosocial and environmental factors impact these interactions. The majority of our studies have been in people with spinal pain and/or hip pain conditions. Our goal is to improve the long-term outcomes of prevention strategies as well as rehabilitation strategies of people with musculoskeletal pain conditions.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Understanding Origins of Chronic Pain, New Treatments for Pain, Enhance Clinical Practice in Pain Management

Zachary Vesoulis

Washington University

Assistant Professor of Pediatrics

vesoulis_z@kids.wustl.edu, 314-286-1524



Research and background interests:

I am interested in the use of quantitative physiology to improve the neurodevelopmental outcomes of infants. In the context of neonatal abstinence syndrome, I am interested in the application of limited channel EEG to the detection of seizures, improved medication titration, and decreased length of stay. Outside of the quantitative field, I am also very interested in the effect of socioeconomic factors on neonatal abstinence syndrome, particularly length of hospital stay.

HEAL topics of interest

Improve Treatments for Opioid Misuse Disorder and Addiction: Enhance Treatments for Mothers and Infants

Jeremiah Weinstock

Saint Louis University

Associate Professor

jeremiah.weinstock@health.slu.edu, 314-977-2137



Research and background interests:

My research is broadly focused on psychosocial interventions for addiction (e.g., gambling, alcohol, opiates). I am a PI and Co-PI on NIH-funded randomized clinical trials examining motivational interviewing, cognitive behavioral therapy, and contingency management for the treatment of addiction. Much of my current research focuses on integrating motivational interviewing and contingency management to help individuals with addiction start and maintain an exercise program, as a non-stigmatizing intervention.

HEAL topics of interest

Improve Treatments for Opioid Misuse Disorder and Addiction: New Treatments for Addiction, Overdose Prevention and Reversal, Optimize Effective Treatments

Adrienne Wilson-Poe

Washington University in St. Louis

Instructor

poea@anest.wustl.edu, 971-227-9860



Research and background interests:

My work is focused on the interaction between opioids and cannabinoids in pain relief. I have published on the cellular adaptations that occur during opioid tolerance, and how the side effects of chronic opioid use can be mitigated by cannabinoids. I am most interested in clinical therapeutic cannabis as a harm reduction tool. There is promising evidence of cannabis' opioid sparing effects, as well as its ability to prevent opioid overdose and relapse; however, MANY questions remain. Because of the historical lack of funding in this field, there is a huge opportunity to answer some very fundamental questions.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: New Treatments for Pain, Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: New Treatments for Addiction, Overdose Prevention and Reversal, Optimize Effective Treatments

Rachel Winograd

UMSL-MIMH

Assistant Research Professor

rachel.winograd@mimh.edu, 510-306-5661



Research and background interests:

I devote the majority of my time and energy to empirical efforts to expand the implementation of evidence-based opioid treatment and harm reduction approaches, namely the use of buprenorphine and methadone maintenance medications and community-based naloxone distribution. The nature of my interests and involvement is based in the public health, programming, and implementation science aspects of substance use etiology and intervention. As a Research Assistant Professor at the University of Missouri-St Louis within the Missouri Institute of Mental Health, I enjoy developing, implementing, evaluating, and refining scientifically rigorous programs for substance use intervention on a national and global scale.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: New Treatments for Addiction, Overdose Prevention and Reversal, Enhance Treatments for Mothers and Infants, Optimize Effective Treatments

Claire Wood

University of Missouri, St. Louis, Missouri Institute of Mental Health

Research Assistant Professor

Claire.Wood@mimh.edu, 636-236-7707



Research and background interests:

Dr. Claire Wood received her PhD in Human Development and Family Studies with a Doctoral Minor in Educational Research Methods. She is a Research Assistant Professor at the grant-funded Missouri Institute of Mental Health, University of Missouri- St. Louis and is currently working on regional and statewide opioid initiatives focusing on overdose prevention, treatment and recovery services for individuals with an opioid use disorder (e.g., CARA First Responders: Missouri Overdose Rescue and Education [MORE] and the Missouri Opioid State Targeted Response [Opioid STR] Project). Dr. Wood's research interests involve identifying unique micro-to macro-level predictors of opioid use, overdose, and treatment outcomes to enable the development of effective solutions to the opioid crisis that account for the role of the individual as well as their social and environmental circumstances.

HEAL topics of interest

Improve Treatments for Opioid Misuse Disorder and Addiction: Precision Prevention, New Treatments for Addiction, Overdose Prevention and Reversal, Enhance Treatments for Mothers and Infants, Optimize Effective Treatments

Illhoi Yoo

University of Missouri School of Medicine

Associate Professor of Health Informatics

YoolL@health.missouri.edu, 573-882-7642

Research and background interests:

[mHealth for pain management] I have been developing a "medical grade" mobile pain management system. The system consist of a patient version (mobile app) and clinician version. The patient version allows for self-report of pain (pain intensity, locations, and quality on body maps and PEG) using a mobile device. Using the clinician version, clinicians can review pain data in a graphical format for pain management.

HEAL topics of interest

Prevent Addiction through Enhanced Pain Management: Enhance Clinical Practice in Pain Management

Improve Treatments for Opioid Misuse Disorder and Addiction: Overdose Prevention and Reversal

Additional Resources

Select Federal Funding Opportunities:

<https://clic-ctsa.org/sites/default/files/Funding%20Opportunities.pdf>

Washington University, St. Louis College of Pharmacy, University of Missouri:

Center for Administrative Data Research (CADR)

CADR provides resources and training in the use of health services administrative data in clinical epidemiologic, health services and outcomes research to Institute of Clinical and Translational Sciences (ICTS) members.

<https://cadr.wustl.edu/>

Center for Clinical Pharmacology

The Center for Clinical Pharmacology is advancing the rational use of medicine, translating basic research into actionable, clinical research and care, and preparing the next generation of clinical scientists.

<http://www.clinicalpharmstl.org/>

Community-Academic Partnership on Addiction (CAPA)

The Community-Academic Partnerships in Addictions (CAPA) is an affiliation between Washington University in St Louis' Brown School of Social Work and community agencies.

The partnership is designed to establish strong connections with organizations throughout the St Louis and surrounding region that encounter the issues related to problems of addiction. Its mission is a partnership approach to training current and future workers, creating teaching-learning opportunities, and conducting collaborative research that improves systems of addiction services.

<https://addiction-partnership.wustl.edu/>

Comprehensive Pain Management Center

<https://www.muhealth.org/locations/comprehensive-pain-management-center>

Institute for Clinical and Translational Sciences

Funding opportunities: <https://icts.wustl.edu/icts-researchers/funding/funding-opportunities>

Research Development Program: <https://icts.wustl.edu/icts-researchers/tools-resources/research-development-program>

Patient Centered Outcomes Research Center

The Patient Centered Outcomes Research (PCOR) Center serves to train a new generation of highly skilled investigators with specialized expertise who will be able to identify best practices in the prevention, treatment and monitoring of clinical conditions and health delivery systems. As part of that training, our center offers learning opportunities for Washington University investigators to perform research that will provide new information addressing current evidence gaps and to translate this knowledge into improvements in health care delivery and health outcomes. The center is committed to providing Washington University investigators with the most current PCOR information and training opportunities as well as to facilitating collaboration among interdisciplinary investigators interested in PCOR.

Specifically, our center provides information on PCOR seminars, resources and information about PCOR, dissemination of PCOR funding opportunities, and information about national PCOR conferences.
<http://pcor.wustl.edu/>

Washington University Department of Psychiatry
<http://www.psychiatry.wustl.edu/>

Washington University Pain Center
<https://pain.wustl.edu/>

Community-based:

Chestnut Health Systems

Chestnut Health Systems (Chestnut) is a private, not-for-profit 501(c)(3) charitable organization governed by a volunteer Board of Directors.

Chestnut offers a comprehensive scope of behavioral health and human services in Illinois, U.S.A. Our professional and experienced staff is committed to providing high quality care and services to the communities we serve. From drug and alcohol addiction treatment facilities (residential and outpatient), to work-life and employee assistance programs, to a research institute, Chestnut continuously works to achieve its mission to make a difference and improve quality of life through excellence in service.

Chestnut is comprised of the following five core service areas:

- Chemical dependency treatment and prevention
- Mental health treatment and housing for persons with mental illness
- Applied behavioral research, training and publications
- Employee assistance and workplace services
- Primary care treatment and preventative services

Chestnut has been continuously accredited by The Joint Commission (JCAHO) since 1975.

<https://chestnut.org/>

EpxSubstanceUse

EpxSubstanceUse is an automated communication system designed to detect when somebody who is in remission from substance use has slipped or feels close to slipping.

<https://www.epharmix.com/epxsubabuse>

Missouri Opioid State Targeted Response (STR)

The Missouri Opioid State Targeted Response (Opioid STR) project will expand access to integrated prevention, treatment, and recovery support services for individuals with opioid use disorder (OUD) throughout the state.

<https://missouriopioidstr.org/>

MO-HOPE Project

MO-HOPE Project Goal: to reduce opioid overdose deaths in Missouri through expanded access to overdose education and naloxone, public awareness, assessment, and referral to treatment.

<https://mohopeproject.org/>

St. Louis County Department of Public Health
<https://www.stlouisco.com/HealthandWellness>