

2020 NW PCI Network Project Updates

Current Research Projects:

Center for Metabolic Health

Kelly Drew, PhD and Robert Coker, PhD, FACSM, FTOS, University of Alaska Fairbanks

- Objectives: Advance new analytical approaches in microRNA and microbiome studies, established in hibernation research, to understand mechanisms responsible for maintenance of tissue protein and function in humans.
- Partner: ITHS Community Engagement Program
- Funding Agency: National Institute of General Medical Sciences
- Status: Ongoing

Community Voices Program

Linda Ko, PhD, MPH, MS, Fred Hutchinson Cancer Research Center

- Objectives: Create and sustain successful community-academic research teams working on community-driven ideas
- Partners: Fred Hutchinson Cancer Research Center and the ITHS Community Engagement Program
- Funding Agency: Institute of Translational Health Sciences, National Center for Advancing Translational Science
- Status: Usability & acceptability testing complete, pilot project underway

Implementing the Moon: Getting Genomic Testing to the Public

Elizabeth Swisher, MD and Deborah Bowen, PhD, University of Washington

- Objective: Identify the best methods of implementing cancer genetic testing into ongoing clinical practice in two healthcare systems
- Partners: Billings Clinic, MultiCare Health System
- Funding Agency: National Cancer Institute
- Status: Ongoing

Integrating Behavioral Health and Primary Care

Rodger Kessler, PhD and Benjamin Littenberg, MD, University of Vermont; Kari Stephens, PhD and Laura-Mae Baldwin, MD, MPH, University of Washington

- Objectives: 1) To determine if increased behavioral health-primary care integration results in better patient-centered outcomes than co-location of behavioral providers without systemic integration, 2) To determine if structured process improvement techniques are effective in increasing behavioral health integration, 3) To assess how contextual factors affect the implementation and patient-centeredness of integrated behavioral health.

- Partners: Idaho State University Family Medicine Clinical Research Center, University of Washington, WWAMI region Practice and Research Network
- Funding agency: Patient-Centered Outcomes Research Institute
- Status: Ongoing

Kidney Precision Medicine Initiative

Katherine R. Tuttle, MD, FASN, FACP, FNKF, University of Washington, and Providence Health Care; Jonathan Himmelfarb, MD, FASN and Ian de Boer, MD, MS, University of Washington

- Objectives: 1) To obtain and evaluate human kidney biopsies from patients with chronic kidney disease or at-risk for chronic kidney disease, 2) To create a kidney tissue atlas, 3) To define disease subgroups, and 4) To identify key cells, pathways and targets for novel therapies.
- Partners: Providence Medical Research Center, NW PCI Network, WWAMI region Practice and Research Network, ITHS Community Engagement Program
- Funding Agency: National Institute of Diabetes and Digestive and Kidney Diseases
- Status: Ongoing

Research Enterprise Metadata Project

Laurie Hassell, Institute of Translational Health Sciences, Jodi Smith, MD, Seattle Children's

- Objective: determine available research-related data elements available and establish a baseline from which to assess initiatives to improve study startup and equity, diversity and inclusion in research
- Partner: NW PCI Network
- Funding Agency: Institute of Translational Health Sciences
- Status: Ongoing

Risk Prediction Tool to Identify Rural Newborns at High Risk for Missing Early Childhood Vaccinations Annika Hofstetter, MD, PhD, MPH, Seattle Children's

- Objective: To apply and test a risk prediction model among infants born in rural Washington State
- Partner: Providence Health Care
- Funding Agency: Seattle Children's
- Status: Ongoing

Undiagnosed Diseases Network

Gail Jarvik, MD, PhD, University of Washington and Katrina Dipple, MD, PhD, Seattle Children's

- Objective: improve diagnosis and care of patients with undiagnosed diseases
- Partners: NW PCI Network
- Funding Agency: National Institutes of Health
- Status: Ongoing; new funding to engage underserved populations

Center and Network Partnerships:

Early Phase Pain Investigation Clinical Network (EPPIC-Net)

Miroslav "Misha" Bačkonja, MD, Dale Langford, PhD and Allison Cole, MD, MS, University of Washington

- Objective: To impact the management of pain, through expeditious discovery and validation of biomarkers and analgesic therapies and in-depth phenotyping
- Partners: MultiCare Health System, Providence Health Care, Billings Clinic
- Funding Agency: National Institute of Neurological Disorders and Stroke
- Status: Ongoing

NephCure Accelerating Cures Institute (NACI) Clinical Care Network (Kidney Research Net)

Debbie S. Gipson, MD, MS, University of Michigan and Katherine R. Tuttle, MD, FASN, FACP, FNKF, University of Washington and Providence Health Care

- Objective: To create a network of research centers and community clinics across the United States to serve as established kidney disease clinical trial sites
- Partners: NW PCI Network and the WWAMI region Practice and Research Network
- Funding Agency: various
- Status: Study opportunities distributed to NW PCI Network sites as they become available.

OPTICC: Implementation Science Advanced Center for Cancer Control Implementation Laboratory

Bryan Weiner, PhD, University of Washington

- Objectives: speed translation of evidence-based cancer control interventions into practice
- Partners: NW PCI Network, WWAMI region Practice and Research Network
- Funding Agency: National Cancer Institute
- Status: Ongoing

Washington Entrepreneurial Research Evaluation and Commercialization Hub (WE-REACH)

Rodney J. Y. Ho, PhD, University of Washington and Fred Hutch

- Objective: To facilitate and accelerate the transformation of regional health research innovations into market-ready products and services that impact health outcomes
- Partners: NW PCI Network, WWAMI region Practice and Research Network, and ITHS
- Funding Agency: National Institutes of Health, Office of Extramural Research
- Status: Ongoing

Pending and In Development:

Accelerating Change and Innovation in Organizations and Networks (ACTION) IV

Lois Olinger, MCP, Deborah Carpenter and Russ Mardon, PhD, Westat, Inc.

- Objective: To undertake rapid-cycle field-based research designed to promote innovation in health care delivery by accelerating the diffusion of research into practice.
- Partners: NW PCI Network, WWAMI region Practice & Research Network, ITHS Community Engagement Program
- Funding agency: Agency for Healthcare Research and Quality
- Status: Pending

Broadening Access to Gene and Cell Therapy Products

Donovan Farris, and Tong Sun, MS, MBA, Institute of Translational Health Sciences

- Objective: Develop a framework for minimum requirements for community hospitals to provide gene and cell therapies to patients
- Partners: Billings Clinic, Kootenai Health, MultiCare Health System, Providence Health Care
- Funding Agency: National Center for Advancing Translational Science
- Status: In development

Center for Advanced Preclinical Modeling of Human Disease

Mark Jutila, PhD and Seth Walk, PhD, Montana State University

- Objective: To establish research partnerships with local, regional and national clinicians and clinical organizations to collaborate on organoid research
- Partners: NW PCI Network and WWAMI region Practice & Research Network
- Funding Agency: National Institute of General Medical Sciences
- Status: Pending

Nutritional Strategies for Metabolic Health in Aging

Robert Coker, PhD, FACSM, FTOS, University of Alaska Fairbanks

- Objective: To establish the importance of experimental meal replacement in the preservation of lean tissue mass during calorie restricted weight loss and influence on physical function and increased activity, and determine sustainability of weight loss induced improvements.
- Partner: NW PCI Network
- Funding Agency: National Institute of General Medical Sciences

Multifactorial Basis for Metabolic Perturbations in Wildland Firefighters

Robert Coker, PhD, FACSM, FTOS, University of Alaska Fairbanks, John Quindry, PhD, and Brent Ruby, University of Montana

- Objective: To evaluate the impact of acute particulate exposure and ventilatory compensation, determine influence of clinically relevant stress criteria and sleep deprivation, and to develop an algorithm to predict exceptional metabolic risk
- Partners: University of Alaska Fairbanks, University of Montana
- Funding Agency: National Institute of General Medical Sciences
- Status: In development

Pacific NW Node of the National Institute for Drug Abuse Clinical Trials Network

Dennis Donovan, PhD, University of Washington

- Objective: To develop, refine, and deliver new treatment options to patients with substance abuse disorders
- Partners: NW PCI Network and the WWAMI region Practice and Research Network
- Funding agency: National Institute on Drug Abuse
- Status: Renewal application pending

Using Technology to Optimize Collaborative Care Management of Depression in Urban and Rural Cancer Centers

Amy Bauer, MD, MS and Jesse Fann, MD, University of Washington

- Objectives: Design, develop and test a technology-enhanced collaborative care model for treatment of depression among patients with a cancer diagnosis
- Partners: NW PCI Network
- Funding Agency: National Cancer Institute
- Status: Pending

Completed or Not Funded:

Accelerating Change and Innovation in Organizational Networks (ACTION III)

Jeannine Brant, PhD, APRN-CNS, AOCN, Billings Clinic

- Objective: To undertake rapid-cycle field-based research designed to promote innovation in health care delivery by accelerating the diffusion of research into practice.
- Partners: NW PCI Network and the WWAMI region Practice and Research Network
- Funding agency: Agency for Healthcare Research and Quality
- Status: Complete

Accuracy of Electronic Health Record Data to Identify Patients in need of Lung Cancer Screening

Allison Cole, MD, MS and Sophie Cain Miller, University of Washington

- Objective: Assess the sensitivity, specificity and predictive value of an electronic health record query, compared to patient self-report of tobacco status and need for lung cancer screening
- Partner: MultiCare Health System
- Funding Agency: National Center for Advancing Translational Science
- Status: Complete

Analytic and Operational Support for the Engagement of the Public and Patients

Danielle Lavallee, PharmD, PhD, University of Washington

- Objective: To undertake rapid-cycle research designed to examine engagement of patients and the public, and assess operational support for related initiatives
- Partners: NW PCI Network and the WWAMI region Practice and Research Network
- Funding Agency: Patient Centered Outcomes Research Institute
- Status: Complete

Engaging Clinicians in Research: A Needs Assessment Survey

Laura-Mae Baldwin, MD, MPH, University of Washington, NW PCI Network

- Objective: To identify the barriers to and potential for clinician involvement in research at NW PCI clinical sites
- Partners: Billings Clinic, MultiCare Health System, Providence Health Care, Kootenai Health, and Seattle Children's
- Funding agency: Institute of Translational Health Sciences
- Status: Complete

Establishing a Child-Centered Clinical and Research Community that Fosters Long-term Healthy Lifestyles of Children with Disabilities

Cheryl Kerfeld, PT, MS, PhD and Tracy Jirikowic, PhD, PTR/L, University of Washington

- Objective: To develop and examine a model of modifiable child, family, and environmental facilitators and barriers that influence physical activity participation and health-related fitness of children who use assistive mobility devices.
- Partners: MultiCare Health System, Seattle Children's
- Funding agency: Institute of Translational Health Sciences
- Status: Complete

Food Environment, Diet Quality and Disparities in Obesity

Adam Drewnowski, PhD, MA, University of Washington

- Objective: To determine whether changes in social, economic and built environments predict changes in energy balance-related behaviors (energy intakes, diet quality and physical activity), weight and other health outcomes over a 24-month period.
- Partners: MultiCare Health System and WWAMI region Practice and Research Network
- Funding agency: National Institute of Diabetes and Digestive and Kidney Diseases
- Status: Complete

Mechanisms and Effects of Online Pain Self-Management for Adults with Opioid Use Disorder

Marian Wilson, PhD, MPH, RN-BC, Washington State University

- Objectives: Identify effective methods of aiding patients with opioid use disorder manage their pain
- Partners: ITHS Community Engagement Program
- Funding Agency: National Institute on Drug Abuse
- Status: Not funded

Moving Genetic Discovery for Cancer Care to Rural Areas

Deborah Bowen, PhD, University of Washington and Allison Cole, MD, MS, University of Washington

- Objectives: Compare the implementation of two strategies to improve screening and identification of rural patients at high-risk for developing cancer.
- Partners: ITHS Community Engagement Program, Idaho State University – Health West, Billings Clinic, and the WWAMI region Practice and Research Network
- Funding Agency: National Cancer Institute
- Status: Not funded

Multi-Component System Redesign in Primary Care Settings to reduce Opioid Prescribing and Improve Patient Outcomes

Michael Parchman, MD, Kaiser Permanente Washington Health Research and Kari Stephens, PhD, University of Washington

- Objectives: test an enhanced "Six Building Blocks" program to improve opioid prescribing practices while improving patient outcomes related to chronic pain and common comorbidities
- Partners: Kaiser Permanente Washington Health Research Institute and the ITHS Community Engagement Program
- Funding Agency: National Institutes of Health
- Status: Not funded

Pacific NW Node of the National Institute for Drug Abuse Clinical Trials Network

Dennis Donovan, PhD, University of Washington

- Objective: To develop, refine, and deliver new treatment options to patients with substance abuse disorders
- Partners: NW PCI Network and the WWAMI region Practice and Research Network
- Funding agency: National Institute on Drug Abuse
- Status: Complete

Patient Centered Outcomes Research Partnership (PCORP) Scholars

Larry Kessler, ScD, University of Washington

- Objective: To prepare scientists and clinicians in conducting collaborative research on patient-centered outcomes and the comparative effectiveness of medical treatments or health system interventions
- Partners: NW PCI Network and the WWAMI region Practice and Research Network
- Funding agency: Agency for Healthcare Research and Quality
- Status: Complete

Primary Care Opioid Use Disorders Trial

Katharine Bradley, MD, MPH, Kaiser Permanente Washington Health Research Institute

- Objective: To compare usual primary care to nurse-based collaborative care for treatment of opioid use disorder with medication-assisted treatment in primary care settings (the Massachusetts Model)
- Partners: MultiCare Health System, Pacific NW Node of National Institute for Drug Abuse (NIDA) Clinical Trials Network
- Funding Agency: National Institute for Drug Abuse
- Status: Complete

Prospective Evaluation of Outcomes after Implantable Cardioverter Defibrillator Generator Exchange (PRECEDE)

Faisal Merchant, MD, Emory University

- Objectives: evaluating predictors of mortality and cause of death, health status trajectories and patient perceptions following implantable cardioverter defibrillator generator exchange
- Partners: Providence Health Care, MultiCare Health System
- Funding Agency: National Heart, Lung and Blood Institute
- Status: No NW PCI sites selected

Research on Medical Practice (ROMP)

Benjamin S. Wilfond, MD, Seattle Children's

- Objective: To understand how patients weigh the tradeoffs between risks, quality of care, and autonomy when considering participation in research examining standard medical practice interventions
- Partners: Providence Health Care
- Status: Complete

Rhythm Evaluation for Anticoagulation for Atrial Fibrillation (REACT-AF)

Rod Passman, MD, Northwestern University

- Objectives: assess chronic versus time-delimited direct oral anticoagulation therapy in patients with non-permanent atrial fibrillation
- Partners: MultiCare Health System, Saint Alphonsus Health System
- Funding: National Heart, Lung and Blood Institute
- Status: Not funded

Science in the Social Media Era

Danielle Lavalley, PhD, PharmD, University of Washington

- Objective: To develop social media strategies to support engagement of research participants and enable research teams to responsibly use social media to communicate about science
- Partners: NW PCI Network, WWAMI region Practice & Research Network
- Funding Patient Centered Outcomes Research Institute
- Status: Not funded

Shape and Future of Advance Care Planning in the WWAMI Region

J. Randall Curtis, MD, MPH and Ruth Engelberg, PhD, University of Washington

- Objectives: 1) To assess advance care planning for patients with serious illness in community outpatient settings in the WWAMI region, and 2) To assess level of interest for participation in interventional studies to enhance advance care planning and types of interventions of interest
- Partners: Idaho State University Family Medicine Clinical Research Center, Kootenai Health, and WWAMI region Practice and Research Network
- Funding agency: Institute of Translational Health Sciences
- Status: Complete

Using Functional Profiles to Predict Transition Issues for Those with Cerebral Palsy

Mary Jo Cooley-Hidecker, PhD, MS, MA, CCC-A/SLP, University of Wyoming

- Objectives: 1) To build a community of practices within the NW PCI Network interested in clinical research with adolescents and adults who have cerebral palsy, 2) To collect patient functional classifications/profiles at one NW PCI site with 20 adolescents and adults who have cerebral palsy, 3) To identify how this research impacts patient care and affects the NW PCI clinical sites' workflow
- Partner: MultiCare Health System
- Funding Agency: MultiCare Health System Intramural Program
- Status: Complete

Wellstone Muscular Dystrophy Center of Excellence

Stephen Tapscott, MD, PhD, Fred Hutchinson Cancer Research Center and Jeffrey Chamberlain, PhD, University of Washington

- Objective: To identify investigators in the 5-state WWAMI region with research interests that align with the priorities and needs of the muscular dystrophy research community

- Partners: ITHS Community Engagement Program
- Funding Agency: National Institute of Arthritis and Musculoskeletal and Skin Diseases
- Status: Complete