PROVIDENCE MEDICAL RESEARCH CENTER

2018 ANNUAL REPORT
To suggest content for the 2019 PMRC Annual Report, please contact us:
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To ensure that patients in the Inland Northwest retain access to the latest healthcare advances, PMRC has strategically aligned goals with clinical priorities. In 2018, PMRC implemented operational efficiencies, reached out to residents of the Inland Northwest, and launched an outreach campaign to caregivers and patients in the PHC region.

Our focus in 2019 will be sustaining operational efficiencies, reaching out to residents of the Inland Northwest, and building infrastructure for innovation and community partnerships.

At Providence Medical Research Center (PMRC), connecting patients in Washington, Idaho, and Montana with cutting edge clinical research is our central mission. From headquarters offices housed in Providence Sacred Heart Medical Center & Children’s Hospital in Spokane, WA, PMRC supports clinical and translational research in medical centers, clinics, and other programs within the Providence Health Care (PHC) region.

The eastern Washington and Montana region includes 12 hospitals and the largest inpatient market share of all the Providence regions (44%). To connect patients in this large catchment area with new therapies, devices, and diagnostics, PMRC operates an ongoing portfolio of over 200 clinical trials in cardiology, neuroscience, cancer, nephrology, pulmonology, and many other therapeutic areas.

PMRC also offers specialty support services, including clinical and regulatory coordination, technical writing and publication support, illustrating, budget development, grants management, study design, database development, protocol writing, and biostatistics and methodology consultation.

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WHO WE ARE

1980
◊ PMRC evolves from The Heart Institute of Spokane research program

2004
◊ PMRC transitions to Providence Sacred Heart Medical Center (PSHMC) with 35 clinical trials
◊ Sacred Heart becomes Children’s Oncology Group accredited site

2013
◊ PMRC provides centralized research services for > 200 clinical trials throughout the Providence Health Care region

2018
◊ PMRC continues to operate > 200 clinical trials in the Providence Health Care region, focusing on innovation and long-term sustainability

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**PSJH statewide market share and facilities by region**

<table>
<thead>
<tr>
<th>Region</th>
<th>Hospitals (#)</th>
<th>Share (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alaska</td>
<td>4</td>
<td>35.00</td>
</tr>
<tr>
<td>Swedish</td>
<td>5</td>
<td>20.00</td>
</tr>
<tr>
<td>Washington Montana</td>
<td>11</td>
<td>44.00</td>
</tr>
<tr>
<td>Oregon</td>
<td>8</td>
<td>30.00</td>
</tr>
<tr>
<td>Northern California</td>
<td>5</td>
<td>36.00</td>
</tr>
<tr>
<td>Southern California</td>
<td>12</td>
<td>24.00</td>
</tr>
<tr>
<td>West Texas/Eastern New Mexico</td>
<td>7</td>
<td>38.00</td>
</tr>
</tbody>
</table>

OUR ORGANIZATION

**Rodney F. Hochman**, MD, President and CEO PSJH

**Mike Butler**, President of Operations (PSJH), CEO (PHS)

**Elaine S. Couture**, RN, MBA, Chief Executive WA and MT

**Jeffrey B. Collins**, MD, Chief Medical Executive PHC

**Katherine R. Tuttle**, MD, FASN, FACP, FNKF, Executive Director for Research

**Sterling M. McPherson**, PhD, Associate Director for Data Analytics

**Radica Z. Alicic**, MD, FHM, FACP, Associate Director for Research

**Kenn B. Daratha**, PhD, Bioinformatics Scientist

### Clinical Operations

- Claudia Flores, RN, CCRC, Manager, Clinical Research
- Erik Kollarsky, RN
- Katie Crawford, RN, CCRP
- Lisa Passey, RN, CCRC
- Joan Milton, RDN, CCRC
- Ann Cooper, LPN, CRCC
- Lisa Davis, CMA, CCRC
- Tracy Roundy, CCRP

### Business Operations

- Lisa Masiello, PhD, CCRP, RAC, Manager, Research Operations
- Cami Jones, PhD, Data Analyst
- Emily Cox, PhD, Scientific Writer/Project Manager
- Angie Lloyd, MS, CCRP, Regulatory Specialist
- Savanna Castillo, BS, MLS, Regulatory Specialist
- Paula Glanville, RCS, Research Billing Compliance Analyst
- Lynn Dahlstrom, CCRC, Contracts & Regulatory Documents Specialist
- Charlotte Mola, Administrative Assistant
- Joy Durham, Research Administrative Assistant
PMRC managed approximately 200 active studies in 2018.

PMRC has a diverse portfolio of active research studies across therapeutic areas and the lifespan.

Number of Studies by Therapeutic & Diagnostic Area

Investigator Initiated; 48; 21%
Multi-Site Clinical Studies; 164; 72%
Other; 15; 6%
PH&S; 2; 1%

Investigator Initiated
Multi-Site Clinical
Other
PH&S

Study Type

Pediatric Oncology; 77; 34%
Other; 46; 20%
Pulmonology; 16; 7%
Nephrology; 21; 9%
Heart & Vascular; 37; 16%
Neuroscience; 11; 5%
Pediatric Hematology; 8; 4%
Orthopedics; 4; 2%
Endocrinology; 3; 1%
Gastroenterology; 2; 1%
Rheumatology; 1; 0%
Adult Oncology; 3; 1%

PMRC has a diverse portfolio of active research studies across therapeutic areas and the lifespan.
Most of the PMRC portfolio was funded by federal awards (n=86) and industry (n=71).

Industry sponsors provided 65% of PMRC revenue in 2018.

The PMRC portfolio included 59% actively enrolling studies in 2018.
OUR INVESTIGATORS

**Anesthesia**
Trenton Pierce, MD

**Biostatistics & Informatics**
Celestina Barbosa-Leiker, PhD
Kenn Daratha, PhD
Brad Dieter, PhD
Sterling McPherson, PhD

**Cardiology**
Andrew Coletti, MD
Braden Batkoff, MD
Erik Condon, MD
Brydan Curtis, DO
Sandra Dickey, PA-C
Matthew Forrester, MD
Bryan Fuhs, MD
Mark Harwood, MD
Philip Huber, MD
Kai Ihnken, MD
Guy Katz, MD
Michael Kwasman, MD
Rachel Le, MD
Dieter Lubbe, MD
Gerhard Muelheims, MD
Kimberly Nollette, ARNP
John Peterson, MD
Branden Reynolds, MD
Michael Ring, MD
Leland Siwek, MD
Cristina Smith, MD
Nancy Vitello, PA-C
Neil Worrall, MD

**Colorectal**
Dara Christante, MD
Shane McNevin, MD

**Congenital Heart**
C. Chris Anderson, MD
Pamela Burg, MD

**Endocrinology**
Kaushik Chatterjee, MD
Christopher Kishiyama, MD
William Martin, PA-C

**Emergency Medicine**
David McClellan, MD

**Gynecology & Gyn Oncology**
Melanie Bergman, MD
Robert Brisbois, MD

**Hospitalists**
Radica Alicic, MD
Sami Amjad, MD
Karina Dierks, MD
David Fregeau, MD
Kari Jones, MD
Rebecca Miller, MD

**Infectious Disease**
Henry Arguinchona, MD

**Interventional Radiology**
Jayson Brower, MD
Daniel Murray, MD
Douglas Murray, MD
Cameron Seibold, MD
David Thorne, MD
Jason Vergnani, MD
Marilee Walker, ARNP
Christopher Zylak, MD

**Liver & Pancreas Surgery**
Juan Mejia, MD
Wichit Srikureja, MD
OUR INVESTIGATORS

**Pediatric Gastroenterology**
Jamil Abou-Harb, MD  
Carl Dezenberg, MD  
Monica Zherebtsov, MD

**Pediatrics - Hematology/Oncology**
Judy Felgenhauer, MD  
David Ross Goshorn, MD  
Stefanos Intzes, MD  
Angela Trobaugh-Lotrario, MD  
Lindsay Whetzel, PA-C

**Pharmaceutical Sciences**
Joshua Neumiller, PharmD

**Pharmacy**
Brent Albertson, PharmD  
Alan Leong, PharmD  
John Nyman, MS  
Suzanne Smail, PharmD  
Eden Zuly, PharmD

**Pulmonology**
Alma Chavez, MD  
Thomas DeCato, MD  
Deborah Fertakis, ARNP  
Samuel Joseph, DO  
Judith Keiser, RD  
Allison Lambert, MD  
Michael McCarthy, MD  
Jiten Patel, MD  
Pragya Rai, MD

**Neonatal Intensive Care Unit**
Lisa McGill-Vargas, MD

**Nephrology & Transplant**
Samir Bani-Hani, MD  
Ramu Patakoti, MD  
Katherine Tuttle, MD  
Okechukwu Ojogho, MD

**Neuroscience & Neurosurgery**
Jason Aldred, MD  
Katie Al-Hafian, ARNP  
Jonathan Carlson, MD  
Ruxandra Costa, MD  
N. Roger Cooke, MD  
Jessica Craddock, MD  
David Greeley, MD  
David Gruber, MD  
Aline Heggem-Snow, PA-C  
Benjamin Ling, MD  
Jamelynn Mark, ARNP  
Pamela McLeod, PA-C  
Kunal Shah, MD  
Nathaniel Whitney, MD

**Orthopedics**
Joshua Drumm, DO  
Timothy Lovell, MD  
Arnold Peterson, MD  
Vincint Sprung, PA-C

**Other**
Christa Arguinchona, RN  
Meredith Ellis, RN  
Claudia Flores, RN  
Deborah Mitchell, RN  
Samantha Todd, ARNP

**Rheumatology**
Rebecca Muntean, MD

**Vascular**
Joseph Davis, MD  
Stephen Murray, MD  
Ryan Nachreiner, MD  
Adnan Rizvi, MD
Through our academic partnerships, we innovate, disseminate, and implement cutting-edge clinical and translational science that advances health and patient care.

University of Washington and Washington State University partner with PMRC to conduct novel research that benefits people in the Washington/Idaho/Montana region.

PMRC partnered with University of California Los Angeles (UCLA) to create a landmark registry of 2.6 million patients with or at-risk (diabetes, hypertension) for chronic kidney disease (CURE-CKD). CURE-CKD conducts pioneering research to advance care, clinical trials, and population health.

PMRC is a partner of the Institute of Translational Health Sciences and the NIH-sponsored Clinical and Translational Science Award program administered by the University of Washington. These partnerships advance clinical and translational science across the Northwest and throughout the United States.
**EDUCATION PARTNERS**

PMRC supports student and trainee research in a variety of health sciences disciplines and academic programs.

<table>
<thead>
<tr>
<th>Field</th>
<th>Institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NURSING</strong></td>
<td>Undergraduate and graduate student nurses at Gonzaga University, Washington State University, and Loma Linda University.</td>
</tr>
<tr>
<td><strong>MEDICINE</strong></td>
<td>Medical students, residents, post-doctoral fellows, and sabbatical scientists from the University of Washington, Gonzaga University, and Washington State University.</td>
</tr>
<tr>
<td><strong>PHARMACY</strong></td>
<td>Pharmacy residents and post-doctoral fellows from Washington State University.</td>
</tr>
<tr>
<td><strong>PHYSICAL THERAPY</strong></td>
<td>Physical therapy students from Eastern Washington University.</td>
</tr>
</tbody>
</table>

PMRC supports many students, including those in other health science and PhD programs. Students interested in learning more about PMRC should visit our website: [providence.org/spokanersearch](providence.org/spokanersearch)
At 2.6 million patients and counting, the race to CURE-CKD continues. The 2-year-old CURE-CKD registry (Center for Kidney Disease Research, Education, and Hope) is a collaboration led by Providence Medical Research Center (PMRC) in partnership with the University of California Los Angeles (UCLA), which has grown to one of the largest electronic health record-based registries in the world for patients with chronic kidney disease (CKD) and patients at risk for CKD. A project seed-funded by PSJH and UCLA, the registry draws from both health systems’ electronic health records as well as the National Death Index, the Social Security Death Index, and the US Renal Data System. In 2018, the PMRC Biostatistics and Methodology core released reports demonstrating applications of the registry, such as increasing CKD awareness, improving methods of detection, and facilitating intervention. The registry has also detected outcomes disparities by race/ethnicity and in rural vs. urban patients. In 2019, CURE-CKD will join national and international initiatives for CKD surveillance, risk assessment, diagnosis, and management.
PSHMC JOINS EBOLA FIGHT
PMRC PREPARES FOR EBOLA OUTBREAK

Since the 2014 Ebola outbreak, coordinated efforts have been underway nationwide to outfit 10 medical centers in the United States with special pathogens units (SPUs). Now, Providence Sacred Heart Medical Center (PSHMC) is the designated SPU for the Department of Health & Human Services (DHHS) Region 10, a four-state region (Washington, Oregon, Idaho, and Alaska). Now, PSHMC is the destination facility for any Ebola patient identified in this almost 1 million square mile service area.

PSHMC participated in the full-scale national exercise for Ebola preparedness in April 2018. The “Tranquil Terminus” drill included transport of mock patients from Boise to Spokane. Patients were flown to Spokane International Airport in the DHHS airborne intensive care unit, a negative air flow facility fully contained in a specially outfitted Boeing 747 airplane.

Providence Medical Research Center (PMRC) also stands ready to deliver ZMapp, an investigational antibody combination that was developed in the wake of the 2014 Ebola outbreak. The ZMapp clinical trial would run concurrently with the identification of any Ebola patient in DHHS Region 10.

Sacred Heart is the destination facility for any Ebola patient in Washington, Oregon, Idaho, and Alaska.

EBOLA DRILL

Providence Sacred Heart Medical Center & Children’s Hospital receives a mock patient with Ebola virus infection.
2018

research review

Image credit: Michele T. Rooney, MD
“Our focus in 2019 is laying the groundwork for research to be a sustainable activity long into the future,” says Lisa Masiello, PhD, CCRP, RAC, Manager of Research Operations at PMRC. Masiello lends her expertise in regulatory affairs, research compliance, grants management, and basic science to her role at PMRC. “A sustainable operation requires compliance, financial solvency, and documented procedures,” explains Masiello. Thus, her vision for 2018 focused on operational workflows and a broad vision of financial solvency.

**PMRC improves revenue 54% from 2016**

Incoming revenue in 2018 was 54% higher than that for 2016. The revenue increase shows the success of proactive operational improvements, including automation of accounting systems, optimizing start-up and study reconciliation procedures, implementing a collections system, and advancing budget negotiation strategies. In 2018, PMRC also drove efforts to diversify the research revenue stream, including establishing a fee structure and funding acquisition process to support research, and formalizing the process for research service agreements.

**How is my study doing? PMRC launches fully automated quarterly investigator reports**

In the 3rd and 4th quarter of 2018, PMRC focused analytics resources on programming to generate study reports each quarter for investigators. Beginning in the 2nd quarter of 2019, investigators can expect to see per-quarter and life-to-date enrollment, study staff, and profit/loss for each study in their portfolio.

**PMRC rolls out automated time and effort accounting systems**

In 2018, PMRC launched an automated system for capturing time and effort on industry-sponsored and federally-funded projects, and communicating those transactions to Lawson, the PSJH accounting system. The new system is compliant with the PSJH policy and federal regulations. After a 12-month testing period that concluded with a complete and successful transaction of all 2018 labor to Lawson, the system is now the PHC region standard practice for research time and effort management.

**Standardizing workflow: PMRC releases online intake form**

To further streamline research operations, PMRC initiated an online intake system for investigator-initiated and student projects. Available on the PMRC website, the intake form communicates the essential details of each study to the research team, initiating an intake workflow specific to students/trainees, physicians, nurses, industry sponsors, and others. New investigators are greeted with a standardized intake meeting that creates a customized navigation plan for their project.
**PMRC bids farewell to the Discovery Science Lab**

The closure of the Discovery Science Laboratory in 2018 marked the end of a 22-year tenure for the laboratory, and the departure of an accomplished team of scientists: Rick Meek, PhD, Senior Research Scientist; Sheryl Cooney, Senior Research Technologist; Bob Anderberg, Senior Research Technologist; Brad Dieter, PhD, Research Scientist; Jennifer Bergin, Research Lab Technician. They contributed monumentally to building the success of PMRC in discovery and translational science. Their contributions live on, and they are greatly missed!

**PSHMC becomes TDN center**

Providence Sacred Heart Medical Center & Children’s Hospital was accepted to the Therapeutics Development Network (TDN), a clinical trials network coordinated by the Cystic Fibrosis Foundation. Congratulations to Allison Lambert, MD, Pragya Rai, MD, and Alma Chavez, MD, for this accomplishment.

**New Scientific Success Committee**

In 2017, PMRC launched a new format for the Scientific Success Committee (SSC), a committee that reviews studies for scientific merit, feasibility, and clinical appropriateness. The new format permits online voting and internet-based communication with investigators. In 2018, PMRC presented our SSC method to the Institute for Translational Health Sciences (ITHS) and the Society for Clinical Research Associates (SOCRA) Washington chapter.

**PMRC achieves compliance milestones**

Achieving an inspection-ready state of compliance was a major strategic pillar for research in the PHC region in 2018. PMRC developed a new standardized essential documents filing system for all new and legacy studies in 2018, and developed a regulatory document tracking database to document the history of IRB submissions by submission and by document type.

**New research intranet home page**


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**NEW AUTOMATED PROCESSES**

- Tracking time and effort for federal grants
- Charging labor to studies
- Generating quarterly study reports for investigators
- Reporting metrics
- Reporting profit/loss by study, service line, and study type
New metrics tracking systems

In 2018, PMRC devoted programming and data analytic resources to developing automated metrics tracking systems. The new systems allow real-time reporting on enrollment, startup time, profit/loss by research study and service line, revenue by month, and projected revenue by study type.

New grant applications top $3 million

PMRC was a prime or subcontract applicant on 8 grants in 2018 for research projects in cancer, emergency medicine, nephrology, pulmonology, new drug development, opioid management, and in silico simulation projects.

Caring for our caregivers: 2018 Engagement Survey results

In keeping with the Providence mission, PMRC caregivers worked together in 2018 to ease each others’ way. Caregivers created four committees that surveyed staff and identified novel ways to improve the workplace environment. Areas that were improved included workflows, communication, data access and web content, and office space. Results of the 2018 engagement survey showed improved satisfaction as a result of the committees’ work.

Billing audit

A priority area in 2018 was developing a strategy for auditing the billing cycle for compliance. PMRC developed a system for tracking billing and inspecting the billing cycle for compliance with Medicare Coverage Analysis for each study.

Marketing campaign

In 2018, PMRC launched an outreach campaign to both caregivers and patients. A revamped external website, intranet home page, poster and flyer campaigns, and a Facebook-based campaign will be maintained in 2019 as we continue outreach throughout eastern Washington.

Neurology

Dr. Cynthia Murphy examines a patient.

Image credit: PSHMC Marketing Services
Frontiers of Nephrology: Enrolling Rural America in Clinical Trials

**INFRASTRUCTURE**  **LEGISLATION**  **RURAL PATIENTS**

**Dr. Katherine Tuttle**, a renowned nephrologist and Executive Director for Research at PHC, is hard at work advocating for kidney patients in both Washingtons.

Dr. Tuttle and other leading nephrologists testified in Washington D.C. before the United States Congress on behalf of the Kidney Caucus. Their testimony supported a key Government Accountability Office report that forcefully advised Congress to substantially increase funding allocations and priorities for kidney diseases due to its tremendous economic and human toll. Representatives from the NIH also participated in this presentation to Congress.

Commenting on her testimony, Dr. Tuttle remarked, “We must step out and seek truth over comfort so that ultimately we deliver the right treatment to the right patient at the right time.” At home, Dr. Tuttle works tirelessly to enroll patients in eastern Washington, Idaho, and Montana in cutting edge clinical trials.

“Of the 30 million Americans with kidney diseases, most do not know it until too late… when they either die or need dialysis,” says Tuttle. Treatment op-
tions for kidney diseases are finally advancing, but many patients in rural America have limited access to the latest clinical trials. “At PMRC, we’re changing that. Kidney diseases must be confronted in bold new ways,” said Tuttle. “We will move quickly with laser focus to determine the molecular signatures of kidney diseases as a foundation for novel diagnostics and therapeutics. Why not us and why not now? The vision of PMRC is to have a clinical trial open for every patient with every kind of kidney disease, and to pilot innovative ways of reaching these patients, whether it be via telehealth solutions, home visits, or online platforms.”

In 1959 Sacred Heart became the second hospital in the United States to offer dialysis to renal patients

The “MacGyvers” of Medicine: Saving Lives with Sausage, Orange Juice and a Washing Machine

PMRC is continuing a long tradition of pioneering the practice of nephrology at Providence Sacred Heart Medical Center & Children’s Hospital in Spokane, WA. Following our long-time partner, University of Washington Medical Center, in 1959 Sacred Heart became the second hospital in the United States to offer acute dialysis to patients with kidney failure. In 1962, The Artificial Kidney Center for chronic dialysis opened in the old cafeteria space due to the efforts of Drs. Thomas Marr, Loren Gothberg, Otto Penna, and Richard Steury. At the time,
dialysis had not been widely embraced by the medical community. The device itself was crude: Dr. Willem Kolff’s prototype for the first dialysis machine in the 1940s used supplies that were available during rationing in World War II. Consequently, the improvised artificial kidney machine was composed of sausage skins, orange juice cans, a washing machine, and other common household items. Over the next decade, Dr. Kolff’s design evolved into a functional drum dialyzer that helped many recover from acute kidney injury. The Scribner Shunt later became the first durable method of accessing veins and arteries to connect patients to dialysis machines, rendering long-term dialysis possible.

When Providence physicians brought dialysis to Spokane, only one other hospital in the nation offered chronic dialysis. Spokane’s team of physicians and nurses gave a virtual tour and shared their story via closed-circuit television broadcast to over 800 attendees of the Washington State Medical Association’s September 1962 meeting in the historic Davenport Hotel. Spokane’s Artificial Kidney Center opening was officially announced by Sister Mary Bede a few weeks later.

A HeartBeat feature published on October 5, 1962 describes the significance of the new Artificial Kidney Center:

“The ability to help people suffering from renal failure offers an opportunity for service. In suffering there can be no cause for jubilation. The only cause for expression of elation because of the medical potent of this new service is in the hope which may be afforded distressed individuals. It is a testimonial to the type of [people] who practice medicine in Spokane, for without sufficient background, the Hartford Association of New York City would have been uninterested in granting $84,060 for the fostering of renal research.”

- HeartBeat Magazine (author unknown)

55 Years Later

Today, PMRC supports clinical and translational research conducted within the Washington/Montana region of PSJH. PMRC operates over 200 clinical trials that include thousands of patients each year. Our research touches adults and children in nearly every specialty, including nephrology, cardiology, gastroenterology, neuroscience, pulmonology, endocrinology, oncology, surgery, and many other therapeutic areas. Our mission is to support the research engine that drives regulatory approval for new treatments and diagnostics, which in turn spurs innovation and advances in practice and policy, leading to better outcomes for patients.

What will be the next big health innovation? Probably it will have nothing to do with orange juice and sausages, but perhaps a small discovery will lead the way once again. In any case, PMRC continues the Providence tradition of inspiring innovation, contributing to new knowledge, embracing cutting edge technology, and improving the lives and wellbeing of patients we serve.
In 2018, Providence Medical Research Center (PMRC) and the Clinical and Innovations Research Council (CIRC) supported the development and initiation of nursing and student research projects.

Nursing research is conducted by nurses seeking advanced degrees, as well as Nurse Managers and clinical staff nurses seeking to improve healthcare delivery and evidence-based practice. The nurse-led CIRC encourages a culture of clinical inquiry across multiple disciplines and supports individuals who desire to participate in research or quality improvement projects.

In 2018, PMRC grew its collaboration with the Gonzaga University’s Doctor of Nurse Practitioner (DNP) and Doctor of Nurse Anesthesia Practice (DNAP) programs to include 10 students. PMRC also worked with DNP, PhD, pharmacy and medical students, residents, and post-doctoral fellows from Washington State University, Gonzaga University, the University of Washington, and the University of Arizona.

Kenn Daratha, PhD, is PMRC’s liaison to the DNAP program, a joint degree offered by Gonzaga University and Providence Sacred Heart Medical Center. Daratha also works as
Jessica Craddock, MD, is a Principal Investigator on clinical trials for multiple sclerosis. Image credit: Gary Matoso.

Neuroscience

Katherine R. Tuttle, MD, Executive Director for Research at PMRC, expanded her work as Co-Principal Investigator of ITHS and promoted partnership across PSJH and the Northwest region. These partnerships include new studies to investigating demographic and socioeconomic factors that impact enrollment in clinical trials in rural areas.
2018 Research Activities Report

Honors, Awards, and Scientific Society Participation

◊ Allison Lambert, MD, was accepted to the 2019-2020 University of Washington Medical Education Research Certificate Program.

◊ Bryan Fuhs, MD, served as a panelist on the “Heart and Stroke” episode of KSPS Health Matters.

◊ David Gruber, MD, served as a panelist on the “Back Pain Solutions” episode of KSPS Health Matters.

◊ Darryl Potyk, MD, was elected into the Gold Humanism Honor Society.

◊ Darryl Potyk, MD, received the Best Doctor™ award for a fourth consecutive year.

◊ Kang Zhang, MD, was faculty and speaker at the Sixth World Congress Ultrasound in Medical Education Workshop, Winston-Salem, NC.

◊ Kang Zhang, MD, received the Shikany Inspirational Teaching Award 2018.

◊ Kang Zhang, MD, received the Richard M. Tucker WWAMI Faculty Excellence in Teaching Award 2018.

◊ Katherine Tuttle, MD, served on the Program Committee for American Society of Nephrology Kidney Week 2019.

◊ Katherine Tuttle, MD, served as a judge of the International Society of Nephrology Young Investigator Network Session in Tokyo, Japan.

◊ Katherine Tuttle, MD, chaired the American Society of Nephrology Kidney Week 2018 “Diabetic Kidney Disease” abstract category.

◊ Katherine Tuttle, MD, chaired the National Institutes of Health National Institute of Diabetes and Digestive and Kidney Diseases ZDK1 GRB-3 (O3) Review Panel, “CRIC Ancillary Study (R01).”

◊ Katherine Tuttle, MD, is a Professor of Medicine at the University of Washington School of Medicine and a Research Professor at the Elson S. Floyd College of Medicine.

◊ Katherine Tuttle, MD, was inducted into the Spokane Citizen Hall of Fame for Science, Health, and Medicine.

◊ Rachel Safran, MD, co-chaired the planning committee for the 2018 Washington Chapter American College of Physicians Chapter Meeting.

◊ Rachel Safran, MD, served as the Executive Council Member for the 2018 Washington Chapter American College of Physicians Chapter Meeting.

◊ Rachel Safran, MD, received the Washington State American College of Physicians Community Ser-
vice Award 2018.

◊ Rachel Safran, MD, served as Executive Council Member and Treasurer for the Spokane Society of Internal Medicine in 2018.

◊ Radica Alicic, MD, is a Clinical Associate Professor at the Elson S. Floyd College of Medicine.

◊ Sarah Newton, MD, was on the Planning Committee for the 2018 Washington Chapter ACP Meeting.

◊ Matt Hollon, MD, was on the planning committee for the 2018 Washington Chapter ACP Meeting.

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**Presentations**

◊ **Alicic RA.** “The latest kid on the block: SGLT2 inhibitors,” Providence Sacred Heart Medical Center, Medical Grand Rounds, Spokane, WA.

◊ **Alicic RA, McPherson S.** “Substance use as a public health problem,” Providence Sacred Heart Medical Center, Teaching Noon Conference

◊ **Alicic RA.** “It takes a village: Incorporating family and community-based resources in CKD care,” Co-Moderator, American Society of Nephrology Kidney Week 2018, San Diego, California.


◊ **Coletti AT.** “Inpatient management of acute heart failure,” Providence Sacred Heart Medical Center, Medical Grand Rounds, Spokane, WA.

◊ **Dieter B.** “Histone demethylation near the serum amyloid A promoter: Metabolic memory-associated inflammation,” American Society of Nephrology Kidney Week 2018, San Diego, CA.

◊ **Graham J.** “Hemingway, hemoglobin, Hawkins & hypertension: Clinical impact of the medical humanities,” Washington Chapter American College of Physician Meeting, Seattle, WA.

◊ **Hollon M.** “Ignorance at the broad street pump: Climate change, health & action,” Washington Chapter American College of Physician Meeting, Seattle, WA.

◊ **Johnson EJ.** “Strategic application of a Scientific Review Committee to streamline research operations,” The Society of Clinical Research Associates Washington State Chapter Meeting, Sacred Heart Medical Center & Children’s Hospital, Spokane, WA.

◊ **Leimgruber P.** “The root cause of vascular disease,” Providence Sacred Heart Medical Center, Medical Grand Rounds, Spokane, WA.

◊ **Mesa KJ, Ihken KA, Smith HR, Logani S, Sato DJ, Icenogle T, Kapustin V, Passey L, Coletti AT.** “In vivo pressure differential measurement of a stenosed LVAD outflow graft,” International Society for
Heart and Lung Transplantation 37th Annual Meeting, San Diego, CA.

◊ Mesa KJ, Sato DJ, Smith HR, Ihken KA, Coletti AT. “A multimodal diagnosis approach to a partial outflow graft obstruction in LVAD patients,” American Society for Artificial Internal Organs 64th Annual Conference, Washington, DC.


◊ Potyk, D. “A daily dose of the humanities: Integrating humanities into daily rounds,” Star of Innovation in Medical Education Presentation, Association of American Medical Colleges, Group on Regional Medical Campuses Annual Spring Meeting, Washington, DC.


◊ Safran R. “ACP humanities teaching module: the prison patient,” Washington Chapter American College of Physician Meeting, Seattle, WA.

◊ Safran R. “Medical care through the justice system: Optimizing opportunities to collaborate with health care providers,” Gonzaga University Center for Civil and Human Rights Conference, Spokane, WA.

◊ Smith HR, Mesa KJ, Sato DJ, Ihken KA, Coletti AT. “Early detection of driveline failure in a HeartMate II LVAD patient,” American Society for Artificial Internal Organs 64th Annual Conference, Washington, DC.


◊ Tuttle KR. “Diabetic kidney disease - circa 2018,” University of Nebraska, Visiting Professor, Internal Medicine Grand Rounds, Omaha, NE.

◊ Tuttle KR. “Further empowering RCTs through CKD registries,” 3rd Kidney Disease Clinical Trialists (KDCT) Workshop, Washington, DC.

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Tuttle KR. “Update in the management of diabetic kidney disease: ADA/ASN symposium,” 13th Annual Best of ADA, Kolkata and Bangalore, India.

Tuttle KR. “Cardio-renal effects of glucose-lowering therapies,” 13th Annual Best of ADA, Dhaka, Bangladesh.

Tuttle KR. “EHR-based CKD registries to improve research and practice,” 54th EASD Annual Meeting, Berlin, Germany.

Tuttle KR. “Diabetic kidney disease: circa 2018,” Providence Sacred Heart Medical Center, Medical Grand Rounds, Spokane, WA.

Tuttle KR. “Diabetic kidney disease: circa 2018,” The Glomerular Disease Study & Trial Consortium, International Webinar broadcast from Beth Israel Deaconess Medical Center, Harvard University.


Tuttle KR. “The direct effects of incretin drugs on the kidneys” and “Do glycemic control goals in diabetes change with GFR? How to assess it,” American Society of Nephrology Kidney Week 2018, San Diego, California.


Tuttle KR. “Expanding community engagement,” Kidney Precision Medicine Project September 2018 Meeting, Washington DC.


Worrall NK, Garabedian CP. “Hybrid Norwood strategy for HLHS,” Western Society of Pediatric Cardiology, Seattle, WA.


Worrall NK, Trimpe K, Konyu J, Garabedian C. “Operative and one-year outcomes of a hybrid stage I palliation program for hypoplastic left heart syndrome at a medium volume center,” 6th Scientific Meeting of the World Society for Pediatric and Congenital Heart Surgery, Orlando, FL.

Zhang K. “Return to the physical exam - STOP RULES,” Spokane County Medical Society Meeting: Medicine Update 2018, Spokane, WA.
Zhang K. “Integrating ultrasound in clinical skills teaching,” Sixth World Congress Ultrasound in Medical Education Workshop, Winston-Salem, NC.

Zhang K. “Point-of-care & general medicine ultrasound,” Oregon Health & Science University, Portland, OR.


Manuscripts

Published


**Books and Chapters**


Montemayor K, **Lambert AA**, West NE. (Submitted). Pulmonary exacerbations in cystic fibrosis. In: *Cystic Fibrosis*.


**PMRC Investigators in the News**

◊ DiabetesHUB. **AWARD-7: Dulaglutide benefits patients with diabetic renal disease**. September 13, 2017.

◊ Healio Endocrine Today. **Dulaglutide improves glycemic profile in type 2 diabetes, CKD**. July 26, 2018

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Endocrinology News. Dulaglutide effective for patients with T2D, moderate to severe CKD. July 10, 2018


Medwire News. Dulaglutide Feasible Alternative to Insulin Glargine in Patients with DKD.

Renal and Urology News. Renal Allograft Failure Linked to Low Uromodulin Levels.

Manuscripts

Submitted and in Review


Lauren Benson, MD, presents her research at the American College of Physicians Washington Chapter meeting.

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Dieter BP, Meek RL, Anderberg RJ, Cooney SK, Tuttle KR. Inflammation and apoptosis induced by diabetes-associated mediators in podocytes: Role of protein kinase C. *J Cellular Molecular Med* (Submitted).


**Resident Scholarly Activity**

**Posters and Presentations**

**Arunachalam R.** “Recurrent hip pain: an unusual presentation of Hodgkins Lymphoma,” American College of Physicians Washington Chapter Meeting, Spokane, WA.

**Benson L.** “Itty bitty living space,” American College of Physicians Washington Chapter Meeting, Seattle, WA.
Brown J. “It’s all about that dead space,” American College of Physicians Washington Chapter Meeting, Seattle, WA.

Hallac A. “The impact of quick sepsis-related organ failure assessment scoring on patients with acute pancreatitis,” American College of Physicians Washington Chapter Meeting, Seattle, WA.

Jacob B. “Erythroderma- an unusual presentation of CMML,” American College of Physicians Washington Chapter meeting, Seattle, WA.


**Manuscripts**


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- Writing methods sections
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- Methodology consultation
- Clinical trial protocol development
- Poster preparation
- Reports and standard operating procedures
- Regulatory documents

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