PREVENTION
THE ROLE OF THE HEALTH PROFESSIONAL

APRIL 19, 2019
POND STUDENT UNION IN POCATELLO
AND ISU–MERIDIAN SAM AND ALINE SKAGGS HEALTH SCIENCE CENTER
I’d like to welcome you to the 2019 Kasiska Division of Health Sciences’ Research Day, “Prevention: The Role of the Health Professional” Thank you to the Research Day Committee for all of their work on this event!

Our nation spends 75% of its health care dollars on chronic diseases that are largely preventable. More incredible is that Medicaid spends 96 cents of every dollar on similar conditions. Clearly prevention is key to controlling health care costs.

We spend a lot of time discussing interprofessional collaboration. Prevention is inherently interdisciplinary; all of our health professionals can play a part because we touch our patients and clients in different ways. Behaviors such as diet, exercise, smoking, elicit drug use, alcohol consumption, and ignoring risk factors or health screening contribute to risk. We must recognize and address disparities and make preventive decisions based on science. That brings us to today: 2019 Research Day.

Research Day involves more than the prevention and I hope that all of today’s attendees can glean new ideas and perspectives by the work that will be presented.

Have a great day and thanks for your attendance!

Rex W. Force, Pharm.D.
Vice President for Health Sciences
Betty Bekemeier, PhD, MPH, RN, FAAN

Betty Bekemeier is a professor at the University of Washington (UW) School of Nursing and Director of the UW School of Public Health’s Northwest Center for Public Health Practice. She is a distinguished public health systems researcher focused on improving the effectiveness of our prevention systems and related workforce. She has led numerous studies regarding local health department (LHD) services and their impact on health outcomes and disparities.

Dr. Bekemeier is PI of the Public Health Activities and Services Tracking (PHAST) Study, initiated in 2010 through the RWJF Nurse Faculty Scholars Program. PHAST is now a highly regarded, growing database of uniquely detailed and linked data regarding LHD services, which has supported several studies and involves an interdisciplinary research team. Dr. Bekemeier’s studies on change, variation, financing, and outcomes regarding public health systems are conducted in close partnership with public health practice leaders and have been immediately relevant to addressing current policy issues. Her efforts in guiding the generation of evidence and data to support public health practice improvement include development of a dissemination and implementation model aimed at facilitating the uptake and integration of standardized local public health services and financial data into state and local systems.

Dr. Bekemeier is also a national public health nursing leader, having served in significant leadership positions in organizations that include the American Public Health Association and the American Academy of Nursing.
**Agenda**

7:30 – 7:45 Registration

8:00 – 9:15 Keynote speaker
Doing Research that Matters...to Millions
Betty Bekemeier
Pocatello: Pond Student Union Building Ballroom
Broadcast to Meridian: Rooms 686, 687, 509, 845

9:30 – 10:15 Research Methods
Pocatello only: Pond Student Union Building Ballroom
• **How to translate research into practice:** Brook Buffat
• **A Minimal Intervention Protocol Using 25% silver nitrate for Preventing and Managing Dental Caries:** Jacque Freudenthal & Tara Johnson

Meridian only: Room 686 and broadcast to Meridian 687, 509, 845
• **Methodological Control to Investigate the Effects of Animation in AAC:** Kris Brock
• **Pediatric Care Coordination and Risk Tiering: Moving Beyond Claims Data:** Jared Vineyard

10:30– 11:00 Podium Presentations
Meridian: Room 686 and broadcast to Meridian 845 & Pocatello: Salmon River Suite
• **Expansion of a multi-disciplinary immunization program to improve influenza vaccination rates among assisted living home residents: a pharmacy student-driven initiative:** Michelle Bai’, Aminda Skan, Tom Wadsworth, Renee Robinson *Broadcast from Anchorage, Alaska*
• **Hemoglobin A1c Point-of-Care Testing Implementation in Primary Care:** Angela Grant’, Cathy Arvidson, Susan Tavernier
• **Training Effects on Coaching Behaviors of Speech-Language Pathology Graduate Students:** Beth Milgate’, Kristina Blaiser
Pocatello: Little Wood River Room & broadcast to Meridian: Rooms 687, 509

• The Effect of Mindfulness Training and Practice on Student Clinicians’ Clinical Experience and Skills: Madison Quinton*, Dan Hudock, Chad Yates, John Seikel
• The Bi-Directional Relationship Between Periodontal Disease and Rheumatoid Arthritis: A Look at the Evidence: Aris Serrano*, Kylie Ferri, Kierra Lins, Makia Scholes
• The Effect of Questions in Caregiver Input to Infants on Later Vocabulary Development: Laila Samaha

11: 15 – 11:45 Podium Presentations
Meridian: Room 686 and broadcast to Meridian 845 & Pocatello: Salmon River Suite

• Outcome measures for the use of automated feedback in language sample transcription training to improve clinical efficiency and accuracy: Diane Ogiela*, Sarah Aldrich
• Retrospective review of complaints filed by Deaf users of American Sign Language regarding communication access to healthcare: Elizabeth Schniedewind*, Ryan Lindsay*, Steven Snow*, Carl Siebert
• Drug-induced hearing loss prevention through integrative drug repurposing and screening: Dong Xu

Pocatello: Little Wood River Room & broadcast to Meridian: Rooms 687, 509

• Ecological Association Between Arsenic Concentration in Drinking Water and Physiological Health Symptoms in American Falls, Idaho: Mindy Curran*, Jingjing Niu
• Treating to the Guidelines: A Quality Improvement Project to Improve Diabetes Management for Rural Native Americans: Scott Barlow
• The Oral Healthcare Needs of Individuals with Down Syndrome: Lizzy Doty*, Delaney Jensen, Riley Jensen, Marley Pilster

12:00 – 1:00 Poster Session (both Pocatello and Meridian)
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<tr>
<th>Title</th>
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<td><strong>Meridian Posters</strong></td>
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<td><strong>Statins and Drug-Induced Ototoxicity Prevention</strong></td>
<td>Shaikh Emdadur Rahman¹, John Roberts², Joseph Davies², Tristan Roberts², Matthew Caylor¹, Dong Xu¹</td>
<td>¹College of Pharmacy, Biomedical &amp; Pharmaceutical Sciences ²College of Pharmacy, Pharmacy Practice &amp; Administrative Sciences</td>
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<td><strong>ezLigPlot: An ezCADD Web Application for Rapid and High-Quality 2D/3D Visualization of Protein-Ligand Interactions</strong></td>
<td>Yuying Huang¹, Dong Xu¹</td>
<td>¹College of Pharmacy, Biomedical &amp; Pharmaceutical Sciences</td>
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<td><strong>ezCADD: A Rapid 2D/3D Visualization-Enabled Web Modeling Environment for Democratizing Computer-Aided Drug Design</strong></td>
<td>Aoxiang Tao¹, Yuying Huang¹, Yasuhiro Shinohara¹, Matthew Caylor¹, Srinath Pashikanti¹, Dong Xu¹</td>
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<td><strong>Inappropriate benzodiazepine prescribing practices in Idaho</strong></td>
<td>Megan LaCrone¹, James Berain¹, Catherine Oliphant¹</td>
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<td><strong>Prescribing Trends of Antibiotics in the ED and Upon Admission at Saint Alphonsus Regional Medical Center: a Retrospective Chart Review</strong></td>
<td>Kaylee Moretto¹, Kathy Eroschenko¹, Catherine Oliphant¹, Arielle Martin¹</td>
<td>¹College of Pharmacy, Pharmacy Practice &amp; Administrative Sciences</td>
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<td><strong>A retrospective view of the prevalence of childhood obesity in children whose mothers took metformin during pregnancy</strong></td>
<td>Melvina Lake¹, Glenda Carr¹, Thomas Wadsworth¹</td>
<td>¹College of Pharmacy, Pharmacy Practice &amp; Administrative Sciences</td>
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<td><strong>Antidepressants and Drug-Induced Ototoxicity Prevention</strong></td>
<td>Shaikh Emdadur Rahman¹, Yuying Huang¹, Grayson Bosen², Binhyen Tran², Melanie Hackett², Kofi Ansah², Matthew Caylor¹</td>
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<td><strong>Proton-Pump Inhibitors and Drug-Induced Ototoxicity Prevention</strong></td>
<td>Shaikh Emdadur Rahman¹, Noelle Snyder², Kelsey Garner², Amy Hammond², Nicole Orlovich², Matthew Caylor¹, Dong Xu¹</td>
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<td><strong>Attitudes, Barriers, and Perceptions Influencing Naloxone Prescribing by Idaho Pharmacists</strong></td>
<td>Julia Boyle¹, Jared Vineyard², Catherine Oliphant¹</td>
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Traumatic Brain Injury Screening and Referral for Southeastern Idaho’s Homeless Population
Makayla Manfull1, Stefanie Shadduck1, Cade Kirkhart1, Glenda Carr2, Rylon Hofacer3, Russell Spearman1
1Institute of Rural Health, 2College of Pharmacy, Pharmacy Practice & Administrative Sciences, 3Idaho Center for Health Research

The Effects of Interprofessional Communication Between Physician Assistant Students And First Year Pharmacy Students On ICCAS Scores
Kailyn K. Christensen1, Michael A. Biddle1, Barbara Mason1, Christine M. Hall2
1 College of Pharmacy, Pharmacy Practice & Administrative Sciences, 2College of Health Professions, Physician Assistant Studies

A retrospective chart review to evaluate and identify risk factors and causes of subsequent readmission of patients following initial pneumonia hospitalization within 30, 60, and 90 days
Gina Huang1, Kathy Eroschenko1, Glenda Carr1
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Impact of student- versus instructor-led learning on student pharmacists’ performance in a self-care module
Heather Walser1, Kevin Cleveland1, Rebekah Dunkley1
1College of Pharmacy, Pharmacy Practice & Administrative Sciences

Creating successful interprofessional healthcare research collaboration: A qualitative approach to efficiently identify and address group needs
Elaine Nguyen1, Ryan Lindsay2, Cathy Oliphant1, Barbara Mason1, Rylon Hofacer3, Rick Tivis3, Nicholas Mathis1, Renee Robinson1
1College of Pharmacy, Pharmacy Practice & Administrative Sciences, 2College of Health Professions, Community and Public Health, 3Idaho Center for Health Research

The development of brief health condition specific modules to augment community health workforce training in Idaho
Ryan Lindsay1, Michael Mikitish2, Randy Stamm3
1College of Health Professions, Community and Public Health, 2College of Health Professions, Emergency Services, 3Instructional Technology Resource Center

Implementing Practice-Based Reminder/Recall to Improve Childhood Immunization
Kristy Meyer1, Kathleen Baron2, Rebecca Hoover2
1College of Nursing, Graduate Studies, 2College of Pharmacy, Pharmacy Practice & Administrative Sciences

Nurses Preventing Adolescent Vaping
Christy Reese1, Garrett Sweet1, Justin Kesler1, Steven Jordan1, Tiffany Dille1
1College of Nursing, Undergraduate Studies
Nursing education to increase midwife use
Kailee Homolka¹, Avery Terrill¹, Egor Gall¹, Kelsey Tyler¹
¹College of Nursing, Undergraduate Studies

Management of Wound Care Complications Utilizing Telehealth Medicine
Haley McCammon¹, Whitney Heuer¹, Jennifer Kuklok¹, Carine Fontenord¹, Zachary Garzoli¹
¹College of Nursing, Undergraduate Studies

Vitamin D Supplementation and Prevention of Cognitive Decline
Makayle Marshall¹, Anna Martin¹, Eli Gunderson¹, Colleen Berenguer¹, Mackenzie Deobald¹
¹College of Nursing, Undergraduate Studies

Pre-surgical education on opioid use
Trisha Wineman¹, Carolyn Blasch¹, Kathryn Rice¹, Samuel Butters¹, Chad Thomas¹
¹College of Nursing, Undergraduate Studies

Art Therapies to Reduce Stress, Anxiety, and Pain During Cancer Treatment
Sara McDonald¹, Stephanie Perez¹, Olivia Plank¹, Haley Hobson¹, Kelli Rich¹
¹College of Nursing, Undergraduate Studies

Institutionally Initiated Mindfulness Based Interventions and Nursing Stress
Emily Nemore¹, J.C. Berry¹, Theresa Owusu¹, Jamie Mayo¹, Troy Carr¹
¹College of Nursing, Undergraduate Studies

Idaho Collaborative Assessment Program - Comparison of Audiology Outcomes
Gabriel Bargen¹, Kristina Blaiser¹, Kalley Ellis¹, Rachel Krauss¹, Cassidy Mangum White¹
¹College of Rehabilitation & Communication Sciences, Communication Sciences & Disorders

Relationships between norm-referenced test scores and narrative language sample measures in school-aged children with specific language impairment
Amy Smith¹, Diane Ogiela¹
¹College of Rehabilitation & Communication Sciences, Communication Sciences & Disorders
Vocabulary Development of Preschool Children who are Deaf/ Hard-of-Hearing
Kristina Blaiser¹, Joelle Spencer¹, Julie Saunders¹, Breeanna Boyd¹, Brittany Mannie¹, Brooke Mason¹, Madison Wurn¹, Suzi Herbert¹, Kaitlin Peters¹, Savannah Ho’opi’i¹, ¹College of Rehabilitation & Communication Sciences, Communication Sciences & Disorders

Measuring Language Development of Children who are Deaf and Hard-of-Hearing through Language Samples via Telepractice
Cassandra Arias¹, Kristina Blaiser¹ ¹College of Rehabilitation & Communication Sciences, Communication Sciences & Disorders

Atypical neural responses associated with inaccurate speech production in children with speech sound disorders
Alycia Cummings¹, Ying Wu² ¹College of Rehabilitation & Communication Sciences, Communication Sciences & Disorders ²Swartz Center for Computational Neuroscience, University of California San Diego

Minimal detectable change for gait initiation in individuals with Parkinson's disease
Kelsey Gann¹, Greg Nkwocha¹, Evan Papa² ¹University of North Texas Health Science Center, Fort Worth, TX, ²College of Rehabilitation & Communication Sciences, Physical & Occupational Therapy

Analysis of the Effects of Fermented Dairy Consumption on Women's Bone Health
Kirsten Thomas¹, Jacob Burger¹, Kaitlyn Offhaus¹, Tiffany Chou¹, Delainey Womack¹, Mariah Stout¹ ¹College of Health Professions, Post-Bacc Dietetic Intern
Novel Drug Targeting Approach for Sustained Delivery of Angiotensin Receptors Blockers Using Skeletal Bone as a Reservoir
Arina Ranjit¹, Sana Khajeh Pour¹, Matthew Kirkham¹, Ali A Habashi¹
¹College of Pharmacy, Biomedical & Pharmaceutical Sciences

Deletion of ARID1A in Osteosarcoma enhances aggressive cell phenotypes.
Kaniz Fatema¹, Jared Barrott¹
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The Exploration of Bone-Seeking Conjugate of GLP-1 for Enhancing Efficacy Through Prolongation of Its Half-Life
Matthew Kirkham¹, Sana Khajehpour¹, Arina Ranjit¹, Ali Aghazadeh Habashi¹
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Sustained Drug Delivery Using Bone-Seeking Anti-malarial Drug Conjugates Aiming at Prevention of Drug Resistance
Sana Khajeh Pour¹, Ali A. Habashi¹, Matthew Kirkham¹
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Epigenetic regulation of the Birc5 promoter explains mechanism of action of YM-155 in synovial sarcoma
Sarah Luelling¹, Aleksander Mika², Alexandra Heyneman², Neil Parkinson², Jared Barrott¹
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Sustained Delivery of Effective Concentration of Antimalarial Drugs for Prevention of Drug Resistance Using Bone as a Reservoir
Sana Khajeh Pour¹, Ali A. Habashi¹, Matthew Kirkham¹
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Student perceptions of faculty on end of course evaluations at a school of pharmacy utilizing distance education
Alex Shreiber¹, Brooke Buffat¹, John Holmes¹
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Identifying medication management confidence and gaps in training among community health workers in the united states
Verna Jam¹, Kasidy McKay¹, John Holmes¹
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Bringing pharmacogenomics to rural communities
Hugo Rayo¹, Chris Nartker¹, John Stegelmeier¹, Charles Barnes¹
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Development of a bench-top invitro assay towards quantification of cellular Ceramide Sphingolipid.
Farjana Afrin¹, Srinath Pashikanti¹, Jared Barrott¹, James Lai¹, Kaniz Fatema¹, Korawin Triyasakorn¹, Adriene Pavek¹
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Implementation of procalcitonin use protocols to decrease inappropriate testing, minimize antibiotic exposure and regulate antibiotic prescribing
Roger Call1,2, Eliza Borzadek2, Michelle Steed1, Eric Sievers2, J. Todd Bagwell2
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2Eastern Idaho Regional Medical Center

Extended-infusion dosing protocol for piperacillin/tazobactam: design, implementation, and evaluation at a community hospital
Michael Hart1, Kevin Permann1, Jordan Trively1, Michelle Ivie1, Eric Sievers2, Anna Hoenke2
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Antibiotic Prescribing Trends Following Suppression of Fluoroquinolone Susceptibilities
Corrie Black1, Angharad Ratliff1, Jenny Mayo2
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2Alaska Regional Hospital

Pharmacy resident feedback through interdisciplinary clinic video review
Verena Roberts1, Jordan Ferro1, Kasidy McKay1, John Holmes2
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Implementation of a pharmacist-driven penicillin allergy skin testing protocol in a community hospital
Emma O'Neil1, Eric Sievers1, Eliza Borzadek1, Michelle Ivie2, J. Todd Bagwell1
1Eastern Idaho Regional Medical Center, 2College of Pharmacy, Pharmacy Practice & Administrative Sciences

Assessing Speech Language Pathologists’ (SLP) Level of Knowledge and Experience with Cluttering
Kristen Leucuta1, Dan Hudock1
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Examining Caregiver Report of Infant Vocalizations and Later Vocabulary Ability
April Farnsworth¹, Heather Ramsdell-Hudock¹
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Gaze Direction and Vocabulary Development: Part III
Samantha Crowe¹, Heather Ramsdell-Hudock¹
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Assessment in Children with ASD: Does Testing Modality Matter?
Linda Robinson¹
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Data Collection and Factor Analysis of Three (C)APD Tests for Normal Hearing 8 and 9 year-old Children
Jessica Hillam¹, Mary Whitaker¹
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Neural Processes of the Mu-Rhythm of the Primary Motor Cortex During Fluency-Enhancing Conditions in People who Stutter (PWS) and Non Stuttering (NS) Adults
Mary-Kristin Stiles¹, Daniel Hudock¹, Alycia Cummings¹, Xiaomeng (Mona) Xu²
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²College of Arts and Letters, Experimental Psychology

Acute Rehabilitation and Management of a Patient Post Right Middle Cerebral Artery Cerebrovascular Accident
Andrew Polenske¹
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Differential Diagnosis of Long-term Non-vertigo Dizziness in Elderly Male: A Case Review
Chad Neubauer¹
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Lower Extremity Lipolymphedema Treated with Complete Decongestive Therapy: A Case Report
Jesse Sampogna¹
¹College of Rehabilitation & Communication Sciences, Physical & Occupational Therapy

Perspectives Following an Interprofessional Case-Based Learning Experience of Health Professions Students
Victoria Scharp¹, Janette Olsen², Cindy Seiger³
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²College of Health Professions, Community and Public Health ³College of Rehabilitation & Communication Sciences, Physical & Occupational Therapy
Comparing the between sport differences in landing mechanics of female collegiate athletes
L. Derek Gerber¹, Brett Arnell¹, Eydie Kendall², Evan Papa¹
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Outcomes Following a Novel Virtual Reality Intervention and Task-Based Intervention in an Adult with Mild Hemiparesis: A Case Study.
Nancy Devine¹, Theodore W. Peterson¹, Lisa Hong¹
¹College of Rehabilitation & Communication Sciences, Physical & Occupational Therapy

Potential Contributing Factors and Barriers to the Experience of Maternal Depression in the Latina Community
Erica Ironside¹, Theresa Lafavor²
¹Psychology Intern at ISU Family Medicine, ²Pacific University Oregon

Profit Maximization and Nurse Staffing Standards/Levels in For-Profit and Not-For-Profit Religious-Based Nursing Homes
Omotayo Omotowa¹
¹College of Nursing, Undergraduate Studies

Idaho Healthcare for Children and Families: Dialogues in Action Impact Report
Jana Bodily-Roan¹, Barbara Cunningham¹, Kayla Fielder¹, Makayla Manfull¹
¹Institute of Rural Health

Photovoice: Patient Experience with Medication Use Study
Elizabeth Fore¹, John Holmes², Stephanie Vera³
¹Institute of Rural Health, ²College of Pharmacy, Pharmacy Practice & Administrative Sciences, ³College of Health Professions, Community and Public Health

Technologist Exposure in Surgical Cases with C-Arms
Shannon Clover¹, Elizabeth Garza¹, Kristan Jackson¹, Matthew Cochran¹
¹College of Health Professions, Radiographic Science

Effectiveness of Fluoroscopy Safeguards in Myelogram Procedures
Jeff Hampton¹, Holly McDonald¹, Camry Robison¹
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Portable X-ray Scatter to Secondary Persons in a Recovery Room
Morgan Adams¹, Kizzy Overdorf¹, Mahnoosh Roomiany¹, Emmett Johnson¹
¹College of Health Professions, Radiographic Science

Scatter Radiation in a Surgical Setting
Bailee Nye¹, Michelle Murray¹, Traci Cowden¹, Mariela Resendiz¹
¹College of Health Professions, Radiographic Science

The Effect of Shielding in Reducing Patient dose
Ka‘imipokialani Morreira¹, Cheyenne Wojcik¹, Mulubirhan Ghebrekidan¹
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Technologist Dose: Lead and Position Dependent “Where to Stand While Performing a X-ray”
Karin Turner¹, Ashely Klink¹, Danielle Harris¹
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Evidence-Based Considerations for Dental Implant Therapy in Patients with Diabetes Mellitus
Brooke Lindquist¹, Sarah Smith¹, Maisie Huether¹, Katreena Allen¹
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Enhancing Oral Healthcare of People Living with HIV/AIDS
Ali Bosworth¹, Ali Dance¹, Dorys DeLaCruz¹, Kaylee Hardin¹
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Managing Oral Hygiene Using Threat Reduction Strategies for People Living with Dementia
Morgan Olsen¹, Caylee Jones¹, Emylee Meyers¹, Tayler Schvaneveldt¹
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Impacting the Quality of Life in Head and Neck Cancer Patients Through Delivery of Evidence-Based Oral Care
McKenzie Calderwood¹, Bailey Andersen¹, Makayla Boots¹, Aubrey Durbin¹
¹College of Health Professions, Dental Hygiene

Sjögren’s Syndrome: Updated Evidence for Healthcare Providers
Kylee Hepworth¹, Julie Lang¹, Becca Scott¹, Cassandra Smith¹
¹College of Health Professions, Dental Hygiene

Oral Management Considerations and Challenges for Patients with Parkinson’s Disease
Erica Haas¹, Erin Pinnock¹, Ashli Mortimer¹, Kalei Lish¹
¹College of Health Professions, Dental Hygiene

The perceptions of physician assistant students towards opioid MAT training
Paula Phelps¹, Jeffrey Johnson¹, Melanie Domenech Rodriguez¹
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Dietary assessment capturing spice and herb intake: Validation of an online questionnaire
Cynthia Blanton¹, Julianne Nguyen¹
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Applying the MAP-IT Program Planning Model to a Community Nutrition Fair
Jenifer Reader¹
¹College of Health Professions, Dietetics
The Science for Dietary Fiber in the Intervention for Patients with Gastrointestinal Disease Management
Nicole Barron¹, T B¹, Patricia Chan¹, Janet Sadykbayev¹, Kristi Stickley¹, Char Byington²
¹College of Health Professions, Post-Bacc Dietetic Intern, ²College of Health Professions, Dietetics

Vitamin B-12 Status and Cognition in Older Adults
Jenna Bobroski¹, Luke Beck¹, Mallory Daml¹, Josie Dye¹, Jarrett Knodel¹, Char Byington²
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Acknowledgments
We wish to thank the 2019 KDHS Research Committee members who provided time and effort to make this day successful for the presenters and the attendees. This year’s committee members included: Christopher Wertz, Rachelle Williams, Mary Nies, Karissa Miller, Cathy Oliphant, Ryan Lindsay, Steve Moody, and Rylon Hofacer. In addition, appreciation is also given to the ICHR, including Stefanie Shadduck, for the support provided. We also would like to thank Alexis Thompson-Smith for designing the program and flyers.

John Holmes and Mary Van Donsel
2019 Co-Committee Chairpersons