

# Scholarly Project Capstone

March 6, 2020

Robertson Life Sciences Building 3A001 and 3A002 2730 S.W. Moody Ave. Portland, OR 97201



## Capstone Schedule

8 a.m. - 12:30 p.m.

2 p.m. - 3:30 p.m.

3:30 p.m.

Student Assessments

**Public Poster Session** 

**Awards** 

#### Contacts

Heidi D. Nelson, M.D., M.P.H., Scholarly Projects Director

Kaitlin Seymore, Program Tech, Student Records and Scheduling

William Ragan, Program Tech, Scholarly Projects

## POSTER SESSION MAP RLSB 3A001 AND 3A002 FLOOR MAP

C-1 - C-22	D-1 - D-24
B-1 - B-24	E-1 - E-22
A-1 - A-22	F-1 - F-24



#### Mark Baskerville, M.D., J.D., M.B.A., M.A., Concentration Lead

GROUP A: LAW, BUSINESS, AND HEALTH POLICY

#### A-1 | Bennetts, Laura

**MED 20** 

Safety and Efficacy of Pembrolizumab Plus Capecitabine in Metastatic Triple Negative Breast Cancer (mTNBC)

#### A-2 | Blatt, Daniel

**MED 20** 

Diagnostic Accuracy of an Abbreviated STIR Magnetic Resonance Imaging Sequence in Pediatric Spine Trauma

#### A-3 | Bruebaker, Melissa

**MED 20** 

Clinical Value of MRI in Patients with Permanent Pacemaker and Implantable Cardioverter Defibrillator

#### A-4 | Buuck, Taylor

**MED 20** 

A Comparison of Novice, Resident, and Attending Orthopaedic Surgeon Outcomes on Six Fundamentals of Arthroscopic Surgery Training (FAST) Workstation Tasks

#### A-5 | Carey, James

**MED 20** 

Directional Optical Coherence Tomography Imaging of Age-Related Macular Degeneration

#### A-6 | Cassera, Maria

**MED 20** 

Impact of Metastatic Disease on Overall Survival in Neuroendocrine Tumors of the Pancreas: A National Cancer Database Study

## A-7 | Chuong, Rose

MED 20

Perceived Stress and Overall Well-Being During Medical Training

## A-8 | Frank, Zoe

**MED 20** 

Timing of Delivery in Women with Prior Uterine Rupture: A Decision Analysis

## A-9 | Hartung, Jacob

**MED 20** 

The Role of G-CSF in Post Pediatric Hematopoietic Stem Cell Transplantation. A Single Institute Experience and Literature Review

## A-10 | Khan, Omar

**MED 20** 

Clinical and Echocardiographic Risk Factors of Outcomes in Patients with Moderate Aortic Stenosis

## A-11 | Khudanyan, Arpine

**MED 20** 

Efficacy and Safety of Low Molecular Weight Iron Dextran vs. Ferumoxytol

## A-12 | Kotlyar, Yulia

**MED 20** 

What's in the Name? Being on a First-Name Basis and Trust Development in Provider Relationships for Patients Living with HIV

#### A-13 | LeBuhn, Ryan

**MED 20** 

Practicing Truthfulness in a Reflective Practice Curriculum: Characteristics of Students and Faculty who Facilitate Mistake Admission, Experience Reflection, and Future Planning in Medical Student Small Group Sessions

#### A-14 | McKerrow, Isla

**MED 20** 

Trends in Medical Students' Stress, Physical, and Emotional Health Throughout Training

#### A-15 | McKittrick, Megan

**MED 20** 

Quality Improvement and Supplemental Feeding in the Mother Baby Unit

#### A-16 | Murphy, Kathleen

**MED 20** 

Predictors of Heart Failure Hospitalization and Aortic Valve Replacement in Patients with Moderate Aortic Stenosis

#### A-17 | Ninneman, Alexandra

**MED 20** 

Effectiveness of Occipital Nerve Blocks for Treatment of Migraine During Pregnancy

#### A-18 | Ramachandran, Banu

**MED 20** 

Provider Responses to Aberrant Urine Drug Tests During Chronic Opioid Therapy for Noncancer Pain: Results from a Randomized Controlled Trial

#### A-19 | Stone, Lucas

**MED 20** 

Sarcopenia is a Predictor of Mortality in Patients Undergoing Surgical Excision of Head and Neck Cancer

## A-20 | Straehley, Ian

**MED 20** 

Adaptive Functioning in School and Language after Cochlear Implants in Spanish vs English Speaking Pediatric Populations

## A-21 | Taechariyakul, Thotsophon

**MED 20** 

Endovascular Treatment of Tracheo-Innominate Artery Fistula: Case Report and Literature Review with Pooled Cohort Analysis

## A-22 | Wills, Abigail

**MED 20** 

A Five-Year Retrospective Evalution of the OHSU High Risk Non-Melanoma Skin Cancer Clinic

#### David Buckley, M.D., M.P.H., Concentration Lead

GROUP B: EDUCATION, QUALITY IMPROVEMENT, AND ETHICS

#### B-1 | Ainab, Ibrahim

**MED 20** 

Impact of Socioeconomic Factors On Receipt of Treatment for Meningioma

## **B-2** | Cave, Taylor

**MED 20** 

Reducing Post-Operative Transfusion Threshold Following Head and Neck Free Tissue Transfers

#### **B-3** | Contag, Alec

**MED 20** 

LMSA Introductory Medical Spanish Elective: Creating and Evaluating a Case-Based Course Compatible with an 18-Month Didactic Curriculum

#### B-4 | Cooper, Alix

**MED 20** 

Outcomes of MedQuest, a Rural Health Care Pipeline Program for High School Students in Oregon

## **B-5** | Hammer, Phoebe

**MED 20** 

Increased Erythropoiesis in Post-Dates Deliveries is Associated With Fetal Sex

#### B-6 | Gonzalez, Michaela

**MED 20** 

Palliative Care Simulation with Standardized Patients for Emergency Medicine Residents: Development of a Curriculum

#### B-7 | Hoffman, Kara

**MED 20** 

Evaluating the Need for Addressing Sex and Gender Disparities in the Heart Physical Exam Curriculum

## B-8 | Hyzer, Jeffrey

**MED 20** 

Improving Parental Satisfaction in Pediatric Otolaryngology for Children Undergoing Ear Tube Placement by Providing Online Communication to Parents During the Perioperative Period

## **B-9** | Jolley, Caroline

**MED 20** 

Impact of a Culinary Medicine Class on Medical Students' Nutrition Knowledge, Attitudes, and Behaviors

#### B-10 | Kanev, Yoana

**MED 20** 

Effect of Sleep Hygiene Education on Migraine Frequency

## **B-11** | Liang, Sherry

**MED 20** 

A Novel Improvement Science Curriculum for Pre-Clinical Medical Students

## **B-12** | Lowenstein, Sarah

**MED 20** 

Provider Perspective on the Role of Palliative Care in Hypoplastic Left Heart Syndrome

## B-13 | Luty, Samuel

**MED 20** 

Current Attitudes Toward Rural Medical Practice Amongst Medical Trainees: Designing a Survey

#### B-14 | Macias, Emily

**MED 20** 

Pediatric Resident Physicians' Experience with Food Insecurity Screening and Counseling

#### B-15 | Manning, Katherine

**MED 21** 

Richmond Clinic Medical-Legal Partnership: Perceived Health and Wellbeing of Referred Patients

#### B-16 | Matz, Samuel

**MED 20** 

Electronic Hand Hygiene Monitoring: An Open-Source Approach and Lessons Learned

#### B-17 | Molina-Sefchick, Maria

**MED 20** 

Impact of Diabetes Self-Management Education in Uninsured, Spanish-Speaking, Diabetic, Latino Patients: A Pilot Project

#### B-18 | Nguyen, Christine

**MED 20** 

Comparative Analysis of Confidence in Assessing and Counseling on Fall Risk Reduction in Geriatric Population of Sisters, Oregon

#### B-19 | Nichols, Caitlin

**MED 20** 

OHSU Vaccine Curriculum Needs Assessment: Are Students Prepared For Rising Community Hesitancy?

## B-20 | Ognjenovic, Sanja

**MED 20** 

52 Blogs and Podcasts in 52 Weeks for Emergency Medicine Education

## **B-21** | Patel, Nihal

**MED 20** 

Effectiveness of Transitioning to an EHR-based Skin Biopsy Tracking System

## **B-22 | Salcido-Torres, Fernando**

**MED 20** 

Effects of a Longitudinal Curriculum to Teach Health Literacy and Patient-Centered Clear Communication Habits to Medical Students

## B-23 | Sleight, Shayna

**MED 20** 

Repeat Emergency Department Visits for Adolescents with Suicidal Ideation or Behavior

## B-24 | Tsai, Jennifer

**MED 20** 

Not Just a Patient Problem: Assessing Barriers to Food Access in Food Insecure Graduate Students

#### John Stull, M.D., M.P.H., Director, M.D./M.P.H. Program

GROUP C: COMBINED DEGREES

#### C-1 | Alla, Juliet

**MED 20** 

"If It Wasn't for Him, I Wouldn't Have Talked to Them:" Qualitative Study of Addiction Peer Mentorship in the Hospital

## C-2 | Berry, Alisha

**MED 20** 

Increased Psychological Distress and Suicidality in Non-Binary Participants of the 2015 US Transgender Survey

#### C-3 | Bullard, Kimberley

**MED 20** 

Effectiveness of Accompaniment of Self-Managed Medication Abortion Between 13 and 24 Weeks' Gestation: A Retrospective Review of Case Records From Argentina, Chile, and Ecuador

#### C-4 | Burgess, M. Catherine

**MED 21** 

Assessing Capacity to Guide Development of Pediatric Hospital Surge Plans

#### C-5 | Chuu, Emmeline

**MED 20** 

Investigating the HLA-B27 Allele and its Relationship to Gut Fungal Diversity

## C-6 | Clennon, Emily

**MED 20** 

Effect of Medicaid Expansion on Transgender Individuals' Access to Health Care

## C-7 | Gehling, Paxton

**MED 20** 

Microvascular Decompression vs Radiofrequency Ablation for Trigeminal Neuralgia: A Cost-Effectiveness Analysis

## C-8 | Goodman, James

**MED 21** 

Defining the Role of the Meningeal Lymphatic System in Alzheimer's Dementia

## C-9 | Haag, Meredith

**MED 20** 

Increased Adiposity Associated with Increased Length of Stay for Infants with Bronchiolitis

## C-10 | Haynes, Dylan

**MED 20** 

Patient Experience Surveys Reveal Gender-Biased Descriptions of Their Care Providers

## C-11 | Hernandez, Alexandra

**MED 20** 

Association between Multimorbidity, Longest Tenure Occupation, and Race/ Ethnicity in Middle-Aged and Older Adults in the United States

## C-12 | Hersh, Alyssa

**MED 20** 

Sexuality Education and Contraception Use at First Sexual Intercourse Among Mexican Adolescent Females

## C-13 | Lam, Phillip

**MED 20** 

The Differential Capacity of Progenitor Cells Isolated From Superficial Versus Deep Zones of Human Articular Cartilage

## C-14 | Lenahan III, Arthur

**MED 20** 

Gaps in Genetic Service Use Among Survivors of Breast and Ovarian Cancer

#### C-15 | McConnell, Blake

**MED 20** 

Post-Traumatic Headache After Pediatric Traumatic Brain Injury: Prevalence, Risk Factors, and Association With Neurocognitive Outcomes

#### C-16 | Mckenzie, Fatima

**MED 20** 

How Do Women Value Trade-offs in Maternal-Fetal Morbidity and Mortality?

## C-17 | Mowery, Alia

**MED 20** 

Increased Risk of Head and Neck Cancer in Patients with History of Hematologic Malignancy

#### C-18 | Rear, Alice

**MED 20** 

Effects of Low and High Dose CBD on Performance on Punishment Risk Task in Rats

#### C-19 | Stoner, Ryan

**MED 21** 

Mechanisms of Clonal Evolution in Chronic Neutrophilic Leukemia on Ruxolitinib Therapy

## C-20 | Taghizadeh, Farshid

**MED 21** 

 $TLR4\ and\ MyD88\ Activation\ of\ TRPV1\ Modulates\ Cellular\ Uptake\ of\ Aminogly cosides$ 

## C-21 | Urdang, Zachary

**MED 20** 

Toll-like Receptor 4 Signaling and Downstream Neutrophilic Inflammation Mediate Endotoxemia-Enhanced Blood-Labyrinth Barrier Trafficking

## C-22 | Virell, Natalie

**MED 20** 

Finding Time and Using it Wisely to Follow Up on Patient Care

#### Peter Mayinger, Ph.D., Concentration Lead

GROUP D: BASIC SCIENCE AND BIOMEDICAL ENGINEERING

#### D-1 | Allen, Jonathan

**MED 20** 

And if Thy Right Eye Offend Thee...A Literature Review of Auto-Enucleation

#### D-2 | Anthony, Marcus

MED 20

Trends in Interventional Therapy for Urolithiasis in the VA Health Care System: A National Review

#### D-3 | Azimi, Vahid

**MED 20** 

An Automated Image Analysis Pipeline for Plasma Cell Quantification and Multiple Myeloma Prognostication

#### D-4 | Breitbarth, Amanda

**MED 20** 

Anxiety and Overactive Bladder

#### D-5 | Edsall, Andrew

**MED 21** 

Use of Methamphetamine and Alcohol among People with Opioid Use Disorder and HIV in Vietnam

#### D-6 | Geleto, Gemechu

**MED 20** 

Novel Quantification of Iron Stains in Rhabdomyolysis Mouse Model

#### D-7 | Gioia, Gabrielle

**MED 20** 

Evaluating the Clinical Effectiveness of Virtual Urgent Care Implementation for OHSU Patients and Providers

## D-8 | Hartman, Alexandra

**MED 20** 

Comparing NICH Outcomes for Youth with Cystic Fibrosis to a Control Group

## D-9 | Hedmann, Monique

**MED 20** 

Geriatric Emergency Medicine: Perceptions and Attitudes of Patients and Providers

#### D-10 | Hirsh, Maxwell

**MED 20** 

AI in the ICU: Effectiveness of Machine Learning Algorithms in Interpreting ICU Rounds Presentations

## D-11 | Huun, Cassidy

**MED 20** 

Nursing Perspectives on Interpreter Services Use in the Mother Baby Unit

## D-12 | Josephson, Rebecca

**MED 20** 

A Preliminary Analysis of a Multidisciplinary Fibroid Clinic Patient Satisfaction and Demographics

## D-13 | Michel, Zachary

**MED 20** 

Retinal Injury From Hand-Held Lasers: A Major Review of the Literature

#### D-14 | Nguyen, Anthony P. P.

**MED 20** 

Factors Affecting Cochlear Patency After Retrosigmoid Surgery

#### D-15 | Paik, Kyungjeen

**MED 20** 

In Pediatric Cancer Patients, is there a Survival Benefit to Relapse Detected by Routine Asymptomatic Surveillance vs. New-Onset Symptoms?

#### D-16 | Pailet, Jasmina

**MED 20** 

Psychosocial Factors Predicting Acute Post-Operative Pain in Elective Sinus Surgery

#### D-17 | Parlee, Lindsay

**MED 20** 

How Undergraduate Medical Students Identify and Respond to Educational Deficits

#### D-18 | Preston, Douglas

MED 20

Improving Throughput and Sensitivity with ELISA Based Arrays for Pancreatic Cancer Exosome Detection

#### D-19 | Stauffer, Patrick

**MED 20** 

The Use of Microbial Flow Cytometry to Analyze the Intestinal and Oral Microbiota

## D-20 | Swan, Suzannah

MED 20

What is the Relationship between Obstructive Sleep Apnea and Developmental Delay in Children with Down Syndrome?

#### D-21 | Teton, Zoe

**MED 20** 

Mechanical Cisternal Occlusion Causes Glymphatic Dysfunction and Increased AQP4, Iba Expression Following Subarachnoid Hemorrhage

## D-22 | Thekkethala Winovich, Divya

**MED 20** 

Polysubstance Use and Neonatal Opioid Withdrawal Syndrome Severity

## D-23 | Witt, Jacob

**MED 20** 

Chondrogenic Response of Articular Cartilage Progenitor Cells to BMP-9

## D-24 | Zaerpoor, Dara

**MED 20** 

Changes in Dual-Cognitive Testing in Patients with Parkinson's Disease with Freezing of Gait

#### Lisa Silbert, M.D., M.C.R., Concentration Lead

GROUP E: CLINICAL RESEARCH

#### E-1 | Abdala, Pedro

**MED 20** 

Meta-Analysis of AKI-CKD Transition in Perioperative Patients

#### E-2 | Avram, Carmen

**MED 20** 

Cell-free Fetal DNA Screening for Detection of Microdeletion Syndromes: A Cost-Effectiveness Analysis

#### E-3 | Bickle, Lauren

**MED 20** 

Comparing Rates of NICU Admission Among Neonates Born to Non-GDM, A1GDM and A2GDM Mothers

#### E-4 | Brignac, Ashley

**MED 20** 

Risk Factors Leading to the Use of ECMO in Infants with Severe Pertussis: A Single-Center Comparative Study

## E-5 | Mikula, Jacob

**MED 20** 

Prophylactic Stabilization of Metastatic Femoral Lesions Has a Survival Benefit Compared to Pathologic Femur Fracture Fixation

## E-6 | Chalupsky, Megan

**MED 20** 

The Impact of Hypnotic Use on Cognitive Function in Chronic and Episodic Migraine Patients

## E-7 | Dischinger, Hannah

**MED 20** 

Identifying and Recognizing Acts of Exemplary Professionalism: An Evidence-Based Tool to Empower Medical Students to Affirm Their Peers

## E-8 | Eagleton, Connor

**MED 20** 

Effectiveness of a New Written Discharge Instruction Program for Veteran Medical Patients

## E-9 | Edwards, Jared

**MED 20** 

Provider Perceptions of PICU Sleep Quality after Implementation of Sleep Promotion Program

## E-10 | Gallagher, Alexandra

**MED 20** 

Operative Vaginal Delivery Compared to Cesarean Section in Prolonged Second Stage: A Two-Delivery Cost-Effectiveness Analysis

## E-11 | Jubane, Maverick

**MED 20** 

Comparing MR Image Quality and Motion Artifact in Non-Sedated Versus Sedated Pediatric Patients (O-MANS)

E-12 | Le, Vy MED 20

Optical Coherence Tomography Reveals Light-Dependent Retinal Responses

#### E-13 | McConnell, Tegan

**MED 20** 

Influence of Type of Acute Stroke Treatment on C-reactive Protein Levels

#### E-14 | Carlson, Sophie

**MED 20** 

Nurse-Implemented Sedation in the PICU: Identifying Opportunities for Sleep Protection

#### E-15 | Saechao, Johnny

**MED 20** 

Retrospective Analysis of Probiotics and Length of Stay in Critically Ill Trauma Patients

#### E-16 | Schenck, Marta

**MED 20** 

Public Perceptions of Abortion Complications: A National Survey

#### E-17 | Scroggins, Kyle

**MED 20** 

Gender and Age as Considerations for the Use of Distraction Over Anesthesia in Pediatric MRIs

#### E-18 | Servino, Lauren

**MED 20** 

Congenital Anomalies and Socioeconomic Stressors in Expectant Parents

#### E-19 | Stovall, Stephanie

MED 20

Pre-Procedure Factors Predict Technically-Challenging CIED Lead Extractions

#### E-20 | Sutherland, Paige

**MED 20** 

Perspectives on Advance Care Planning Among Senior Medical Students

#### E-21 | Waters, Ryan

**MED 20** 

How Frequently Do Breakthrough Cancer Therapies Translate Into Clinically Significant Treatments?

#### E-22 | Zhou, Clarice

**MED 20** 

Optical Coherence Tomography Reveals Light-Dependent Retinal Responses in Alzheimer's Disease: A Reproducible Biomarker

## Heidi D. Nelson, M.D., M.P.H., Scholarly Projects Director

GROUP F: EPIDEMIOLOGY, COMMUNITY AND GLOBAL HEALTH

#### F-1 | Ager, Emily

**MED 20** 

Epidemiology of Zika Virus in Thailand: A Rapid Site Assessment Approach

## F-2 | Barney, Nicole

**MED 20** 

Use of Clinical Decision Rules on CT Imaging Rates for Blunt Torso Trauma in the Pediatric Emergency Department: A Quality Improvement Project

#### F-3 | Barton, Julia

**MED 20** 

 $Proposed\ Curriculum\ for\ a\ High-School\ Student\ Led\ Community\ Walking\ Program$ 

#### F-4 | Brazil, Molly

**MED 20** 

Real-World Effectiveness and Drug Survival of Dupilumab: A Single-Center Retrospective Analysis

#### F-5 | Bubic, Irvan

**MED 20** 

Antibiotic Course Completion Rates Among Hospitalized Patients With Substance Use Disorders

#### F-6 | Empey, Rebecca

**MED 20** 

Parent Use of the Internet as a Source of Medical Information for Their Children's Healthcare: A Pilot Study in Pediatric Otolaryngology

#### F-7 | Felzien, Emma

**MED 20** 

Evaluation of Written Education Efficacy Regarding Pneumonia Among Caregivers in Trujillo, Peru

## F-8 | Gibbon, Rebecca

**MED 20** 

Impact of β-Lactam Allergy Testing Implementation and Documentation on Antibiotic Selection

## F-9 | Hanseler, Haley

**MED 21** 

How Does Access to Sunscreen Change Sun Protection Habits in Alpine Ski Racers?

#### F-10 | Koonce, Amanda

**MED 20** 

Understanding the Relationship Between General Surgery Resident Confidence and Experience of Macro- and Microaggressions

## F-11 | Levin, Alexander

**MED 20** 

Video Entertainment During Pediatric Magnetic Resonance Imaging (MRI) as a Means to Reduce the Need for Anesthesia and Sedation

## F-12 | McDavitt, Cara

**MED 20** 

Outcomes of Massive Whole Blood Transfusion in Non-Trauma Patients

#### F-13 | McSky, Kysa

**MED 20** 

Transgender and Gender Non-Conforming/Non-Binary Patient Experiences in the Emergency Department

## F-14 | Nienow Birch, Mary

MED 20

The Cost-Effectiveness of Various Group B Strep Screening Intervals in Pregnancy

#### F-15 | Nomura, Eric

**MED 20** 

Demonstration of Landmark Fetal Heart Development Stages in a Prototype 3D Teaching Aid

## F-16 | Saito, Tanya

**MED 20** 

Near-Peer Education for the Transition To Clinical Experiences

#### F-17 | Scheafer, David

**MED 20** 

Pediatric Anesthesia Emergence Delirium (PAED) Scale in Patients Undergoing Tympanostomy Tube Placement

## F-18 | Schnapp, Ashley

**MED 20** 

Out-of-Hospital Pediatric Airway Management With Supraglottic Airway Devices

## F-19 | Settelmeyer, Teagan

MED 20

Characterization of the Noncommunicable Disease Burden at an Eye Hospital in Rural Myanmar

## F-20 | Stading, Ashley

**MED 20** 

An Anatomical Approach to Self Defense with a Blade: Ending the Fight Without Ending Life

## F-21 | Stone, Daniel

**MED 20** 

Qualitative Healthcare Discrepancies of Patients with Insecure Housing in Portland – a Medical Student Scholarly Project

## F-22 | Trone, Kristin

**MED 20** 

Diurnal Variation of Sedative Administration in Intubated Bronchiolitis Patients in the Pediatric Intensive Care Unit

## F-23 | Trump Redd, Victoria

**MED 20** 

Motivations, Experiences, and Perspectives of People Who Contributed Blood for HIV Virology Research

## F-24 | Truong, Quang

**MED 20** 

Increasing Vietnamese Elderly Community Integration via English and Practical Skill Classes

Special thanks to the mentors, collaborators, and supporters of the students' scholarly projects. This important work would not have been accomplished without their involvement.

#### **COLLABORATORS**

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DIRECTOR, M.D./PH.D PROGRAM

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DIRECTOR, M.D./M.P.H. PROGRAM

Cynthia Morris, Ph.D., M.P.H.
DIRECTOR, HUMAN INVESTIGATIONS PROGRAM

#### **MENTORS**

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