

## Short and lightning presentation sessions

### Monday, May 3

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### Tuesday, May 4

[Neuroscience \(1\)](#)  
[Health Services, Access, and Disparities \(1\)](#)  
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## Monday

### Maternal Health

Monday, 9-10	Benjamin Elstrott	The Effects of Iron Repletion on Platelet Count and Function in Iron Deficient Premenopausal Women
	Afsoon Ghafari-Saravi	Cesarean delivery rates by hospital type among nulliparous and multiparous patients
	Georgia Mae Morrison	Male Parent vs Female Parent Specialty Choice
	Faye Andrews	A Prospective Study of Arsenic and Manganese Exposure and Maternal Blood Pressure During Gestation
	Anna Booman	Using the Area Under the Curve Method to Model Gestational Weight Gain in a Safety Net Population
	Menolly Kaufman	Drivers of Postpartum Readmissions with and without Severe Maternal Morbidity, Oregon All Payer All Claims 2012-2018
	Kalera Stratton	Social and behavioral predictors of gestational weight gain: A review

### Neuroscience

Monday, 9-10	Reo Jones	The Impact of Vulnerability on Stress Recovery from Virtual Nature-Based Environments
	Ernesto Manzo	Defining genetic pathways that drive axon loss
	Omar Johnson Ordaz	Circadian rhythmicity of mood reactivity to a physical-cognitive stressor
	Anjanibhargavi Ragothaman	Resting state functional connectivity shows that motor and non-motor networks predict motor symptoms in Parkinson's Disease
	Samantha Rios	The role of Lateral Habenula inputs onto Dorsal Raphe serotonin neurons in regulating methamphetamine induced aversion.
	Amita Shrestha	Synaptotagmin-3 present at presynaptic terminal could promote exocytosis
	Taylor Vega	PROGRESSIVE PARALYSIS- A CASE OF ADULT BOTULISM DUE TO CONTAMINATED BLACK TAR HEROIN IN OREGON
	Sarah Yang	Mutuality Among Military Veterans with Major Depression and Close Members of their Social Network
	Celeste Leary	Surface Radiation Dose Modeling for Fluoroscopically Guided Interventions

## Immunology

Monday, 10-11:30	Justine	Nguyen	IgAseq: A R/Bioconductor package to identify immune-associated bacteria for IgA-Seq experiments
	Kate	Bowie	To flow or not to flow: Considerations for quantitative microbiome profiling
	Breanna	Caruso	The role of programmed cell death protein 1 (PD-1) in regulating T cell development in the thymus
	Morgan	Chaunzwa	Alemtuzumab depletes CD4+ T cells in SIV-infected rhesus macaque on ART
	Reed	Hawkins	Androgen Receptor Regulation of T Cell Immune Responses
	Emily	Helliwell	Biogenesis and immunostimulatory activity of extracellular membrane vesicles from oral commensal <i>Streptococcus sanguinis</i>
	Megan	Huber	Dysfunctional MR1 ligand presentation by airway epithelial cells from COPD lungs or treated with cigarette smoke extract
	Cam	Roberts	Biochemical identification of novel ubiquitin ligases from diverse bacterial pathogens
	June	Treerat	Sisters not Twins: Glycerol Kinase during the complex oral microbiome interspecies interactions
	Jacob	Van Winkle	A homeostatic interferon-lambda response to bacterial microbiota stimulates preemptive antiviral defense in discrete pockets of intestinal epithelium

## Education and Training

Monday, 10-11:30	Francesca	Andronic	The First Two Years of an Interprofessional, Student-Run Vaccine Clinic for Underserved Populations: Challenges and Outcomes
	Tara	Dhawan	Using a quantitative survey to evaluate satisfaction and engagement with The Virtual Anesthesia Academy, a multi-institutional collaboration during COVID-19
	Ali Noel	Gunesch	Student Satisfaction with Virtual Curriculum Implemented in Response to COVID-19
	Thomas	Hoang	Anesthesiology Residency Training and the Anesthesia Toolbox: Five Years of Experience With a Collaboratively Developed Peer-Reviewed e-Learning System
	Brandy	Lentz	Strengths-based Perspectives of Impulsivity in supporting STEM development of undergraduate students
	Kristen	McClellan	Curriculum Changes in Response to COVID-19: Evaluation of Instructor Satisfaction with Virtual Didactics
	Brandi	Pang	OHSU Department of Neurological Surgery residency education training program; innovative growth and development over the last decade
	Yue	Song	Why Not OHSU: Reasons Admitted Applicants Decline Admissions Offers
	Leila	Zuo	Investigating Gender Disparities in Case Assignments in an Academic Anesthesiology Department: Implications for Pay and Productivity
	Kristen	Schultz	The Pedagogical Approach to a Novel Palliative Care Curriculum for General Surgery Trainees

## Surgery, lightning talks (1)

Monday, 11-12	Trevor	Barronian	Cannabinoid Utilization in Fracture Clinic; A Prevalence Study of Formulation and Delivery Modalities
	Zachary	Goldstein	Topical Timolol for treatment of chronic wounds: A systematic review
	Danielle	Peterson	Eliminating guesswork in pelvic fractures: Can we predict the rate of complications after operative stabilization based on patient characteristics?
	Devan	Stucki	How Screw Angulation and Screw Length Affect the Reduction Quality of the Medial Malleolus in the Context of Bimalleolar Ankle Fractures
	Linh Nhat	Taylor	Where are all the superbugs? Intrawound powdered antibiotic prophylaxis in open fracture care does not drive patterns of resistance
	Jorge	Walker	Effectiveness of Student Evaluations During Core Surgical Clerkship
	Alden	Wyland	Association between tourniquet use and blood loss during below knee amputation
	Natalie	Zusman	Bladder Shift: A Novel, Simple Radiographic Predictor of Increased Hemorrhage in Acetabular ORIF
	Aaron	Streblow	The Role of Bone Density in Foot and Ankle Fracture Location

### Cancer and Cellular Biology (1)

Monday, 1:30-3	Gabriel	Cohn	MYC-Driven Chromatin Dynamics at the Nuclear Pore
	Nathaniel	Evans	Creating interpretable and informative low-dimensional representations of cell-state from sequencing data using visible neural network variational autoencoders (VNNVAE)
	Jessica	Hebert	Rapid interference with crush syndrome-induced myoglobin endocytosis in the kidney
	Oliver	Lumbad	Reporting Adherence to Resistance Training in Cancer Survivors and their Partners: A Comparison Between Prescribed and Received Training Dose
	Darsh	Mandera	OncoML: A Multi-omics-based Machine Learning Approach for Targeted Cancer Drug Prediction.
	Lauren	Raymond	A comprehensive review of the therapeutic options for gastroenteropancreatic neuroendocrine tumors with a focus on PRRT and its sequencing
	Jehan	Yahya	A Comparative Matched Analysis for Survival Endpoints Between Women with Early Stage Uterine Carcinosarcoma and Uterine Serous Carcinoma

### Health Services, Access & Disparities

Monday, 1:30-3	Samantha	Bowen	Telemedicine Visits in an Established Multidisciplinary Central Nervous System Clinic for Radiation Oncology and Neurosurgery (RADIANS) in a Community Hospital Setting: Early Experience
	Brian	Chan	An Ambulatory "A-ICU" Team for High-Utilizers in a Health Care for the Homeless Setting: 6-month outcomes of the SUMMIT trial
	Pranav	Chandra-shekar	Phenotypic Presentation Trends of Transthyretin Amyloid Cardiomyopathy: Are We Getting Better?
	Lily	Cook	The Quality of Clinical Social Determinants Data: A Systematic Review
	Natalie	Disher	A Comparison of Survey Recruitment Methods in a National Study on VA Patients' Healthcare Preferences
	Wei-Chun	Lin	Extraction of Active Medications and Adherence Using Natural Language Processing for Glaucoma Patients
	Jenssy	Rojina	Evaluation of Risk Factors Associated with Emergency Room Utilization
	Mohadeseh	Solgi	An Intervention to Increase Detection of Developmental Delays in WIC Programs
	Sarah-Trucinh	Tran	Disaggregating Asian American and Pacific Islanders' perinatal health outcomes: a review of research using birth certificate data
	Malika	Waschmann	Assessing the Efficacy of a Virtual Workshop in Preparing Inflammatory Bowel Disease Patients for the Pediatric to Adult Care Transition

### Child/Adolescent Behavior & Development

Monday, 2-3	Alisha	Bruton	The association between sensory over-responsiveness and emotional dysregulation in children with ADHD: A cross-sectional analysis using the Temperament in Middle Childhood Questionnaire
	Liu	Chen	Quantifying Speech Characteristics For Detecting Autism
	Lauralee	Fernandez	Characterizing Childhood Anemia in Tumbes, Peru: Preliminary Results
	Grace	Lawley	Investigation on Examiner "Um" and "Uh" Usage in ADOS-2 Sessions
	Katie	McDonald	Gender Differences in Suicide Risk: 'I suck' vs 'The world sucks'

### COVID-19

Monday, 3-4:30	Vibha	Addala	A Deep Learning Based Approach for Efficient Diagnoses of COVID-19, Viral (Other than Covid-19), and Bacterial illnesses via Chest X-Rays
	Jason	Agtarap	Impact of COVID-19 Pandemic on Enrollment and Execution of Both Translational and Clinical Research
	Jason	Chen	Adapt and Overcome: Lessons Learned in Supporting Staff Wellness During the COVID-19 Pandemic
	Corrin	Kalinich	Assessing Student Food Security Status at Oregon Health & Science University during the COVID-19 Pandemic
	Amalia	Larsen	Effects of the COVID-19 pandemic on teens with ADHD
	Kristina	Nelson	Coping and Positive External Factors Among Undergraduates at the Onset of COVID-19
	Kate	Rosen	Postpartum Maternal Mental Health in the COVID-19 Pandemic
	Leah	Snyder	Survey of Patients and Providers Following Rapid Adoption of Telehealth in an Academic Bariatric Surgery Practice during the COVID-19 Pandemic: Benefits, Barriers, and Areas for Improvement
	Sen	Yang	Survey Study Describing Impacts of COVID-19 on Nontuberculous Mycobacterium Patients

### Surgery, short talks (1)

Monday, 3-4:30	Jason	Brant	Association of Clinically Relevant Preoperative Urinary Symptoms with Postoperative Urinary Retention in Spinal Fusion Surgery Patients
	Michelle	Buncke	When is imaging required for craniofacial dermoid cysts/sinuses? A review.
	Kiera	Degener-O'Brien	Utility of Upright Thoracolumbar Radiographs in Assessing Vertebral Fractures
	Rohi	Gheewala	An Algorithm for Integration of a Pre-Anesthesia Clinic in the Community Hospital Setting with Geriatric Neurosurgical Outcomes Analysis
	Stephanie	MacDonald	Pilot Study to Evaluate the Safety, Feasibility, and Potential Impact of an At-Home Surgical Drain Removal Program
	Ariana	Stuart	Extreme diabetic neglect is no worse than poor diabetic control in extremity fracture patients
	Thomas	Sutton	Intra-operative Bile Culture in Pancreaticoduodenectomy: Teaching Old Dogma New Tricks
	Sarah	Lindsay	Loss Of Stabilization in distal Tibia shaft fractures (LOST): How many interlocks are required?
	Michelle	Buncke	When is imaging required for craniofacial dermoid cysts/sinuses? A review.
	Natasha	McKibben	A Systematic Review: Methods of Quantifying Intraoperative Blood Loss in Orthopaedic Trauma Surgery

## Tuesday

### Neuroscience (1)

Tuesday, 9-10:30	Gina	Calco	Airway Sensory Nerve Hyperinnervation in Obese Mice with Airway Hyperreactivity
	Austin	Igelman	Evaluating average-threshold-sensitivity by dilation status in two-color dark-adapted perimetry in healthy patients
	Rishab	Jain	Codonify: A Recurrent-Neural-Network-based Codon Optimization Tool to Improve Protein Expression
	Nina	Luong	Characterizing DRG axon phenotypes in a novel Lfng mutant
	Samantha	Papadakis	Functional Connectivity of Auditory Hypersensitivity
	Alec	Peters	Cell migration inducing and hyaluronan binding protein (cemip) is dysregulated in demyelinating disease and regulates oligodendrocyte progenitor cell differentiation
	Alexandra	Salem	Fine-tuning BERT for the semantic classifier of the PNT

### Health Services, Access, and Disparities (1)

Tuesday, 9-10:30	Blake	Buchalter	A high resolution rural disadvantage index for study of health disparities
	Rui Heng	Chen	Health Outcomes of the SUMMIT Ambulatory-ICU Primary Care Model in an Urban Federally Qualified Health Center
	Rose	Goueth	The Development and Pilot Evaluation of a Reproductive Health Decision Aid
	Kelsi	Krakauer	The Impact of COVID 19 on telemedicine utilization in pediatric surgery- toward maintaining access for rural and lower socioeconomic communities
	Damon	Lerma	Regional Rise in Orthopedic Utilization of Virtual and Telehealth Visits during COVID-19
	Meenakshi	Mishra	Using Sociotechnical Context to Understand the Challenges to Assess Risks and Address Harms for Chronic Opioid Therapy in the Primary Care Setting: A literature review
	Deepthi	Nacharaju	Protect Our Kids: A Novel Program Bringing Hemorrhage Control Training to Schools
	Benjamin	Sanders	Surveying the network of Early Intervention referrals: A mixed-methods study to contextualize loss to follow-up

## Cancer and Cellular Biology (2)

Tuesday, 10-11:30	Adrian	Baris	Role of RIG-I in regulating tumor endothelium
	Eugenia	Fraile Bethencourt	Crosstalk between the cytosolic nucleic acid sensor RIG-I and the PARP enzymes in Triple Negative Breast Cancer
	Homma	Khosroyani	Primary Imatinib Resistance in PDGFRA-mutant GIST
	Matthew	Newman	High Dimensional Mapping of Temporal Evolution within the Marrow Microenvironment in Response to FLT3 Inhibitor Therapy
	Kyle	Romine	Monocytic differentiation and AHR signaling as Primary Nodes of BET Inhibitor Response in Acute Myeloid Leukemia
	Casey	Thornton	Spatial mapping of single-cell chromatin accessibility in intact tissues
	Anne	Vonada	Selective Expansion of Gene-Edited Hepatocytes In Vivo

## Surgery Short (2)

Tuesday, 10-11:30	Lauren	Hsue	Proximal Humerus Fracture Management in the Elderly: A Cost-Effectiveness Analysis
	Sean	Hua	The impact of prophylactic antibiotic duration and stent removal timing on urinary tract infection and complications following radical cystectomy
	Natasha	McKibben	A Systematic Review: Methods of Quantifying Intraoperative Blood Loss in Orthopaedic Trauma Surgery
	Ashraf	Samhan	Efficacy of digital health evaluations for patients undergoing advanced hernia and abdominal wall reconstruction
	Emelia	Sodders	Intramuscular Compartment Pressures Do Not Correlate with Tissue Physiology after Tibia Fracture
	Ashley	Sweet	Advance Care Planning Documentation in Older Adults Undergoing Evaluation at a Preoperative Medicine Clinic
	Liam	Wong	Patient-Reported Outcomes Measurement Information System (PROMIS) Use in Orthopaedic Surgery: A Scoping Review

## Neuroscience 2

Tuesday, 11-12	Dani	Long	Investigating mechanisms that connect Alzheimer's disease with circadian disruptions
	Michelle	Palumbo	Development of microRNA encapsulated extracellular vesicles for in vivo treatment
	Latroy	Robinson	Morning Cardiovascular Function in Chronic Cannabis Users and Healthy Controls
	Allison	Taylor	The Role of Myrf1 in the Development of Myelin in the Peripheral Nervous System
	Sarah	Zerimech	Vulnerability of White Matter Function in Alzheimer's Disease

## Biochemistry

Tuesday, 1:30-2:30	Renee	Arias	Mutation to second sphere residue in peptidylglycine $\alpha$ -hydroxylating monooxygenase (PHM) reveals role of hydrogen-bonding network
	Cristiane	Miranda Franca	Pre-vascularized microgels for accelerated dental pulp regeneration
	Ivan	Rodriguez Sordia	Structural characterization of the PARP7-PARP13 complex
	Katherine	Rush	Unnatural amino acids as spectroscopic probes of a Cu(I) metallochaperone binding site
	Kazi	Haq	Adaptive Cardiac Resynchronization Therapy Effect on Electrical Dyssynchrony: a randomized controlled trial

### Child/Adolescent Behavior and Development

Tuesday, 1:30-3	Sandra	Rios-Ayala	Delayed True Vocal Fold (TVF) Closure During Compression Phase of Cough in Individuals With Unilateral Vocal Fold Immobility (UVFI)
	Leigh	Martin	Perceptions and Experiences of Gender Equity in Pediatric Urology
	Kristi	Atkins	Speech-Language Pathologist and Teacher Perspectives on Using Augmentative and Alternative Communication (AAC) During Classroom Activities
	Winniebelle	Cadiz	Novel Interventions in Children's Healthcare (NICH): Impact on Outpatient Appointment Attendance for Youth with Complex Medical Conditions
	Kira	Clark	The Prevalence of Adverse Childhood Experiences in Adults with Chronic Kidney Disease and the Effects on Health, Quality of Life and Coping Skills
	Amanda	Del Giacco	Alcohol and marijuana use are associated with altered brain response during processing of negatively valenced emotional stimuli in adolescents
	Kimberly	Grzesek	Identifying Psychosocial Risk Factors in Pediatric Kidney Transplant Evaluations
	Gareth	Harman	Resting State Signatures of the Child Behavior Checklist
	Heather	MacFarlane	Evaluating atypical language in autism using automated language measures
	Holden	Richards	Corticosteroids in the Management of Chronic Cough: A One-Year Retrospective Analysis

### Workplace Wellness

Tuesday, 2-3	Deborah	Levy	Caring for COVID-19 Inpatients: Lessons Learned Creating Evidence-Based Clinician End-User-Designed Electronic Health Record Personalization
	Adam	Rule	Clinical Notes Across a Decade
	Sunil	Samuel	Improving Clinician Wellness Through Electronic Health Record Optimization
	Josie	Velasco	Transitioning to Shiftwork Rapidly Alters Overnight Blood Pressure
	Shelby	Watkins	The influence of work schedule on work-family conflict among firefighters

### Cancer and Cellular Biology

Tuesday, 2-3:30	Ashley	Anderson	Identification and Characterization of Neoplastic Hybrid Cells in Uveal Melanoma
	Cecilia	Bueno	Taking a Closer Look: Imaging Tumor Microenvironments with 3D FIB-SEM Reveals Complex Cellular Interactions
	Nicholas	Calistri	In silico prediction of tumor-stroma interactions in perturbed Triple-negative Breast Cancer
	Mahaba	Eiwaz	Deletion of renal megalin does not alter the severity of acute kidney injury in a cardiorenal syndrome type 1 mouse model
	Yoshio	Funahashi	Optimizing cardiopulmonary resuscitation in mice with a novel mouse chest compressor.
	Christopher	Klocke	Selection of data integration methods for single-cell RNA sequencing
	Ian	Mclean	Oncostatin M induces migratory and morphological changes in mammary epithelial cells
	Emory	Neer	Do you see what I see? Improving color accessibility and organization of complex data with the microshades CVD color palette
	Hannah	Smith	Analyzing Collagen in the Tumor Micro-Environment in 3D
	Jennifer	Sullivan	Single-Cell Transcriptomics Analysis of Tendon Development
	Christina	Turner	Functional characterization of the oral and blood microbiome of healthy individuals
	Jonathan	Wallace	Interferon Lambda in the Pathogenesis of Inflammatory Bowel Disease

### mTBI

Tuesday, 2 - 4pm	Reid	Burch	Post-traumatic pain in children and adolescents following critical care hospitalization: prevalence and association with recovery
	Kody	Campbell	Quantifying the relationship between subjective and objective vestibular and oculomotor system function in people with subacute mild traumatic brain injury
	Jasmin	Mabry	Chronic Cognitive Deficits after mild traumatic brain injury: Do Standard Clinical Tests Relate to Real World Deficits?

Akira	Neilsen	Balance deficits by domain on the Mini Balance Evaluation Systems Test following mild traumatic brain injury
Frederick	Gallun	Auditory processing after mild Traumatic Brain Injury
Tess	Koerner	Development of an Auditory Symptom-Rating Scale for Concussion
Lindsey	Lee	Exploring age and gender patterns for care after concussion; a retrospective analysis
Binyam	Nardos	Photosensitivity: a window into pain in the brain
Hung	Nguyen	Sex-dependent Microglia Response to Ischemic Injury in White Matter
Melissa	Papesh	Objective Indices of Preattentive Auditory Discrimination in Blast-Exposed Veterans

### Education and Training

Tuesday, 3-4	Patrick C. M.	Brown	Content Validation of a Measure of Student Readiness to Work with People Who Use Drugs
	Shanthia	Espinosa	Exploring STEM motivation supports for Pacific Islander undergraduates
	Amber	Lin	Updating a Introduction to Biostatistics course to better support diversity, equity, and inclusion
	Wencesley	Paez	Impact of Advanced Clinical and Translational Research Educational Programs on Oncology Specialties and Career Development
	Cirila Estela	Vasquez Guzman	Critically investigating diverse perceptions of the holistic medical school environment among Racially, Ethnically, and Socially Underrepresented Minority (RES-URM)

### Health Services, Access, and Disparities 2

Tuesday, 3-4	Aaron	Eisen	The influence of nature on heart rate variability in response to stress among vulnerable populations
	Ramyar	Eslami	Reliability of remote physical performance data and the role of technology
	Leah	Esposito	Collaborative multi-modal pathway reduces opioid consumption after total hip and knee arthroplasty
	Isabelle	Nguyen	At-home assessment of visual acuity with technology during covid-19
	Stephanie	Paris	Longitudinal surveillance of health outcomes in response to a stable housing intervention for low-income residents
	Rita	Somogyi	Point-of-care capillary refill technology improves accuracy of peripheral perfusion assessment in sepsis
	Hao	Tan	Increased risk of readmission with persistent neurologic deficit following surgical resection of brain metastases

### Surgery Lightning 2

Tuesday, 3-4:30	Loren	Black	Reaming the tibial intramedullary canal does not affect anterior tibialis intramuscular ph
	Sam	Cheesman	In vivo intramuscular ph in tibia fractures is acidic but normalizes after stabilization & resuscitation
	Jeremy	Ciporen	The clinical dilemma of anticoagulation management in the growing geriatric neurosurgical patient population: a disease-stratified analysis
	David	Cornwell	The impact of methamphetamine abuse on lower extremity bone density
	Trevor	Crafts	Longitudinal risk modeling of non-alcoholic steatohepatitis in the longitudinal assessment of bariatric surgery 2 (labs-2) cohort
	David	Gallacher	Polishing the crystal ball: predicting major post operative complications in acetabular orif
	Jamil	Kendall	Similar outcomes for total knee arthroplasty at an ambulatory surgery center for medicare and commercial patients
	Michelle	Lawson	Delay of fixation increases mortality and major complications in traumatic pelvic ring injuries
	Warren	Nielsen	Pathoanatomic factors contributing to a positive j-sign
	Frank	Rodgers	Classic pelvic ring displacement measurements demonstrate poor interrater reliability
	John	Tabb	How to find pathologic humerus fractures in the va? A preliminary identification of a complex clinical phenotype within the national va data warehouse
	Stephanie	Zhao	Orthopaedic surgery multiplatform online clerkship: introducing the field during covid-19
	Sarah	Lindsay	Loss of stabilization in distal tibia shaft fractures (lost): how many interlocks are required?