

Martha L. Lepow, M.D., Irwin H. Lepow, M.D., PhD. Medical Student Research Day 2019

Case Western Reserve University School of Medicine & The Cleveland Clinic Lerner College of Medicine





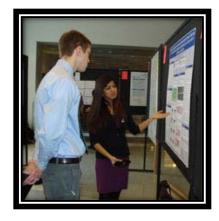
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Martha L. Lepow, M.D.

Dr. Martha Lipson Lepow was born in Cleveland, Ohio, graduated from Heights High School and then enrolled at Oberlin College, majoring in chemistry. She entered Western Reserve Medical School in the class of 1952 and was one of the 7 women in a class of 84. During her fourth year, she served as Acting Intern at Babies and Children's hospital in Cleveland, where she cared for children with Leukemia, Cystic Fibrosis and Nephrosis. She also saw how penicillin, recently licensed, could cure pneumonia and then decided on a Pediatric residency. In 1953, she was



transferred to Cleveland's City Hospital (now MetroHealth Medical Center) Infectious Disease's Service and Pediatrics where Dr. Frederick Robbins was Chair and Dr. Robert Eiben supervised the poliomyelitis unit. Dr. Robbins invited her to work in the virus laboratory, where studies on sera from vaccines were being tested. In 1957, a fourth year medical student, Irwin H. Lepow, Ph.D. came to this virus laboratory to learn to grow cells in culture. He and Martha were married 2 months later. Martha later became a faculty member, teaching, caring for patients and working on testing the Sabin, Rubeola and the Rubella vaccines.

In 1967, Irwin and Martha were recruited to the new university of Connecticut Medical School. She started the Department of Pediatrics and the division of Pediatric Infectious Diseases. She and her husband then moved to Albany, New York in 1978, where she was Professor of Pediatrics at Albany Medical College. She was Vice-Chair and Head of the Division Pediatric Infectious Disease and became Chair from 1993-1997. She is currently an Emeritus professor.

Martha has served or 0led board membership in a large community health center in Albany and has been a medical adviser to several other community non-profit agencies and the Capital District Physicians Health Plan. Nationally, she has served as an editor of the Red Book, a manual of infectious diseases and vaccines for pediatricians, which is also a publication of the Pediatric Infectious Diseases of the American Academy of Pediatrics. In addition, Dr. Lepow was a grant reviewer for the NIH and March of Dimes. Finally, she has won numerous teaching awards and national awards for Pediatric Education from the AAP and an Honorary Degree from Oberlin College. She has over published over 100 research articles and book chapters.

Irwin H. Lepow, M.D., Ph.D.

Irwin H. Lepow received his Ph.D. from Western Reserve University in 1951, for complement research done in Louis Pillemer's laboratory in the Institute of Pathology. He later received his M.D. from Western Reserve in 1958. Between 1951 and 1967, he served on the School of Medicine's faculty, and during that time he extended the medical school's reputation for complement research that was established by his predecessors. In 1967, he accepted the Chair of Pathology at the then new medical school of the University of Connecticut and subsequently became Chair of



Medicine. Before his death in 1984, he was Vice President for Research at the Sterling Drug Company, Rensselaer, New York, and President of its Sterling-Winthrop Research Institute.

Dr. Lepow's major research contributions included the purification and characterization of the Clqrs complex of complement and the demonstration of its enzymatic nature. He also discovered, purified and characterized the natural serum inhibitor of Cl esterase, whose deficiency underlies the disease, hereditary angioedema. Another major research contribution was showing that complement components play a significant role as mediators of the inflammatory reaction through their ability to enhance vascular permeability. Dr. Lepow was a prominent figure in the field of immunology throughout his career, based not only on his fundamental contributions to complement research but also on his personal character and leadership abilities. His stature is exemplified by his election as President of the American Association of Immunologists in 1979.

Dear Students, Faculty, Staff and Guests:

Welcome to the Martha L. Lepow, M.D. and Irwin H. Lepow, M.D., Ph.D., Research Day, 2019! There will be a number of exciting events today, beginning with our early morning poster session, followed by student Oral Presentations and then the plenary lecture by **Margaret K. Hostetter, M.D.**, from the Cincinnati Children's Hospital Medical Center. Her talk is entitled, "Infection in Fiction". Following the Lepow lecture, there will be another poster session and luncheon. The final event will be more student Oral presentations from 3:00-4:30pm. An Awards ceremony honoring oral presentations and poster award winners will close the event.

The Case Western Reserve School of Medicine and the Cleveland Clinic Lerner College of Medicine of Case Western Reserve University are grateful to the family, friends and colleagues of Drs. Martha L. and Irwin H. Lepow, who, by contributing so generously to the Lepow Endowment Fund, have made this Medical Student Research Day and its distinguished Lepow Lecture possible. We are again pleased to have Dr. Martha Lepow in attendance for today's events.

In order for this day to become possible, a number of faculty and staff members have played significant roles. The Lepow Day Committee consists of Drs. Derek Abbott, Jill Azok, Colleen Croniger, Marjorie Greenfield, Neil Greenspan, Robert Haynie, Alan Hull, Charles Joiner, Thomas Kelley, James Lieberman, Charles Malemud, Donald Mann, Neil Mehta, Margaret Larkins-Pettigrew, Todd Otteson, Steven Ricanati, Charles Smith and Pamela Wearsch. They have worked on the program over the past year, formulated the current program and judged all the abstracts for the selection of the fifteen oral presentations, the highest honor for students submitting an abstract.

The following faculty members have generously donated their time to serve as Poster judges: Drs. Robert Bahler, Barbara Bates-Greenwalt, Ted Bobinsky, Milana Bogorodskaya, Joseph Bokar, Tracey Bonfield, Mark Boswell, Farren Briggs, Cheryl Cameron, David Canaday, Colleen Croniger, Shyamasree Datta, Salil Deo, Claudia Diaz,

Douglas Einstadter, Jonatha Gott, Douglas Gunzler, Rosa Hand, Corrilyn Hileman, Neil Jacobson, Charles Joiner, Janna Kiselar, Kenneth Kocilja, James Lieberman, Raymond Liu, Agnes Loeffler, Thomas Love, Charles Malemud, Donald Mann, Kimberly McBennett, Thomas McCormick, Vincent Monnier, James Newman, Neetha Parameswaran, Ronald Posner, James Rambasek, Mary Ann Richmond, Arne Rietsch, Catherine Rogers, Mamta Singh, Kent Smith, Shadi Swaidani, Charles Tannenbaum and Pamela Wearsch. We thank these faculty members for their time and help in selecting the best poster presentations for awards.

Finally, staff member, Ms. Sharon Callahan, has been enormously helpful in regard to all administrative aspects of the Lepow Day program and her assistance is sincerely appreciated.

It is important to recognize that both Drs. Martha and Irwin Lepow have been committed to the education of medical students and developing a cadre of physician scientists. For this reason, we have this important day at Case Western Reserve University for presentations and discussions of science and medicine by distinguished faculty and importantly, our student scholars and future physician scientists.

Sincerely, Nicholas P. Ziats, Ph.D. Chair, Lepow Day 2019

2019 MEDICAL STUDENT RESEARCH DAY September 26, 2019

Schedule of Events

Morning Session

Tinkham Veale Atrium (2nd Floor)

7:30 – 8:00 am Continental Breakfast

Provided. Group A- Poster

Registration & Set-up

(Ballroom B)

8:00 – 9:00 am Group A- Poster and Oral

Presentation Registration &

Set-up (Ballroom B)

Tinkham Veale Ballroom B

9:00-9:45 am Group A - Poster Session with

judging

Tinkham Veale Ballroom C

10:00 – 10:55 am Oral Presentations Part I

Tinkham Veale Ballroom A

11:00 – 11:55 pm Introductory Remarks:

Pamela B. Davis, M.D, Ph.D.

Dean, CWRU School of Medicine

Guest Speaker: Margaret K. Hostetter, M.D.

2019 MEDICAL STUDENT RESEARCH DAY September 26, 2019

Schedule of Events Afternoon Session

Tinkham Veale Atrium

12:00 - 12:50 pm Lunch Provided &

Group B - Poster Set-up

(Ballroom B)

Tinkham Veale Ballroom B

1:00 – 2:45 pm Group B – Poster Session

with Judging

2:45 – 3:00 pm Break

Tinkham Veale Ballroom C

3:00 – 4:30 pm Oral Presentation – Part 2

4:30 – 4:50 pm Awards and Closing

(you must be present to receive your awards)

Guest Lecturer Margaret K. Hostetter, M.D.

Cincinnati Children's Hospital Medical Center



Key Note Lecture

11:00 AM – 12:00 PM Tinkham Veale University Center Ballroom "C"

"Infection in Fiction"

Dr. Margaret K. Hostetter is the B.K. Rachford Professor of Pediatrics, Chair of the Department of Pediatrics and Director of the Cincinnati Children's Research Foundation. She is a board-certified specialist in pediatric infectious diseases. A native of Toledo, Ohio, Dr. Hostetter earned her M.D. from Baylor College of Medicine in Houston, Texas, and completed her Pediatric residency and fellowship in Pediatric Infectious Diseases at Children's Hospital in Boston. She has served as the American Legion Heart Research Professor in Pediatrics at the University of Minnesota and as the Jean McLean Wallace Professor of Pediatrics and Chair of the Department of Pediatrics at Yale (2002-2010) before coming to Cincinnati Children's Hospital in 2010.

Dr. Hostetter has won several awards for her research including the E. Mead Johnson Award for Pediatric Research from the Society for Pediatric Research and the Maxwell Finland Lecture from the Infectious Diseases Society of America. She is a member of SPR (past President), APS (past President), the American Society of Clinical Investigation, the Association of American Physicians and the National Academy of Medicine.



Cincinnati Children's Hospitals Medical Center

2019 MEDICAL STUDENT RESEARCH DAY September 26, 2019 Oral (10 min.) & Rapid Talk (3 min.) Presentations

Introductory Remarks - Dr. Nicholas P. Ziats, Chair, Lepow Day Committee

AM Session

Alvi Session			
10:00	Abiff, Muta: Regulation of the IFNy Induced Transcriptional Program in Medulloblastoma		
10:10	Kim, Uriel: The Effect of Medicaid Expansion Among Low-Income Adults on Stage at Diagnosis in Screening-Amenable Cancers		
10:20	Dark-Fleury, Luc: Immunological Evaluation of Fecal Microbiome Transplanted Helicobacter Negative Mice with Spontaneous Ileitisin		
10:30	Ren, Bryan: Time to surgery affects return to work rates in Workers' Compensation patients with single level lumbar disc herniation		
10:33	Younis, Joseph: Removal of Symptomatic Implants and Capsules Improves Pulmonary Function: An Objective Outcome Assessment in Breast Implant Related Illness (Rapid Talk/3 min)		

10:36 Liu, Angela: Role of NF-kappaB c-Rel and O-GlcNAcylation in primary B cell function in autoimmune diabetes (Rapid Talk/3 min)

2019 MEDICAL STUDENT RESEARCH DAY September 26, 2019 Oral (10 min.) & Rapid Talk (3 min.) Presentations PM Session

3:00	Trudeau, Stephen: Demographic Differences in Outpatient Urologist Utilization using a Nationally Representative Database
3:10	Snider, Christina : RORA is a Potential Prognostic Biomarker and Therapeutic Target for Patients with Acute Myeloid Leukemia
3:20	Rouabhi, Mohamed: Orthostatic Hypertension in Chronic Kidney Disease
	Witkin, Matthew: 15-PGDHi Attenuates
3:30	Bleomycin Induced Pulmonary Fibrosis
	Unger, Robert: Premotor transcranial
0.40	direct current stimulation increases
3:40	inter-hemispheric resting-state functional connectivity in patients with
	chronic stroke
	Truong, Tiffany: Nutrition in the
	Ambulatory Setting for Chronic Wounds
3:50	
	Jeong, Stacy: Patellofemoral Arthroplasty Surgical Technique: Lateral
4:00	or Medial Parapatellar Approach (Rapid Talk/3 min.)
	Bhide, Saee (Sayuli): Health Care
	Perspectives of Human Trafficking
4:03	Survivors in Cleveland
	(Rapid Talk/3 min.)
4:06	Mulvihill, Lianne: PET Volumetric Prognostic Index May Be the Most Significant Factor Associated with Overall Survival in Non-Small Cell Lung Cancer Treated with Chemoradiation (Rapid Talk/3 min.)

Poster and Oral Presentations

#	Oral/Poster	Presenters Name	Abstract Title
1	P	Abbott, Matthew	Can Cervical Transforaminal Epidural Steroid Injections be Surgery Sparing?
2	0	Abiff, Muta	Regulation of the IFNy Induced Transcriptional Program in Medulloblastoma
3	Р	Acuna, Alexander	Opioid Use Disorder Increases the Risk of Infection after Primary Total Hip Arthroplasty
4	Р	Alvarez, Benito	Hidradenitis Suppurativa: Successful Management using Staged Carbon Dioxide Laser Marsupialization Technique
5	Р	Annunziata, Michael	Ex Vivo Normothermic Limb Perfusion with an HBOC-201 Based Perfusate
6	Р	Atli, Karam	The Impact of Surgical Chronology on Outcomes of Patients Receiving Lumbar Spine and Lower Extremity Joint Surgeries
7	Р	Avila, Amanda	Preoperative tTesting for Urethroplasty and Its Association with Outcomes- A National Surgical Quality Improvement Program Study with Associated Financial Implications
8	P	Bailey, Richard	Challenges and Insights of Daily Logbooks in Type 1 Diabetes Mellitus
9	Р	Barksdale, Edward	Comparison of the Efficacy of Aspirin and Enoxaparin in Prevention of Venous Thromboembolic Events following Operative Fixation of Femur and Hip Fractures
10	Р	Barrios Martinez, Paola	Correlating Healthcare Engagement with Health Literacy and Diabetes Numeracy in the Hispanic Population in Cleveland
11	0	Bhide, Saee	Health Care Perspectives of Human Trafficking Survivors in Cleveland

12	P	Blumrosen, Charlotte	Interventions to improve adherence to dialysis treatment in Blacks with ESKD: a systematic review
13	P	Boas, Samuel	A Novel Method to Visualize Optimal Cerebral Blood Flow During Cranial Vault Surgery using a 3D Imaging System
14	P	Boruah, Abhilasha	A Quality Improvement Protocol to Identify Potential Victims of Abuse Presenting with Skull Fracture: An Evaluation of Protocol Compliance
15	P	Boscia, Alexander	How Bad is It Really? Risk of Severe Maternal Morbidity in Immune Thrombocytopenia during Delivery
16	P	Brar, Sumeet	The Effect of the Affordable Care Act on Preventative Health Utilization
17	P	Cai, Yida	National Trends in Hospitalization Charges for Autologous Free Flap Breast Reconstruction
18	P	Carbajal, Valerie	Biomechanical Analysis of an Adjustable Cortical Fixation Device for Quadriceps Tendon Repair: A Cadaveric Study
19	P	Casco-Zuleta, Antonio	Comparison of the Efficacy of Aspirin and Enoxaparin in Prevention of Venous Thromboembolic Events following Operative Fixation of Pelvic and Acetabular Fractures
20	P	Castillo, Julio	Skeletal Maturity on Knee Rotational X-rays Generated from CT scan 3D Models
21	P	Chen, Andrew	Visual Outcomes Following Cataract Surgery in Neovascular Age-Related Macular Degeneration Patients In Routine Clinical Practice
22	P	Chen, Eric	Cataract Surgery Outcomes in Diabetic Patients With and Without Retinopathy
23	P	Chiang, Tsun-Kang	Macular Thickness Alterations in Intermediate Age-related Macular Degeneration: Influence of Disease Severity and Presence of Subretinal Drusenoid Deposits
24	P	Cho, Elizabeth	Complications and Functional Outcomes after Trans-Olecranon Distal Humerus Fracture

25	P	Clawson, Luke	An evaluation of anatomic and nuclear imaging for dosimetry estimates in patients receiving radioembolization for hepatic malignancy
26	P	Clayton, Deidrhe	Surveying Food Retail Environments in Cleveland Neighborhoods
27	P	Coffey, Max	NFkB Signaling in Prostate Cancer Cells Treated with Supraphysiologic Testosterone
28	P	Cummins, Andi	Platelet Rich Plasma Injections for Hair Restoration in Androgenetic Alopecia: A Study of Patient Reported Outcomes
29	P	Dambaeva, Ayana	Correlation of yttrium-90 radiation dose for an objective response in hepatocellular carcinomas
30	0	Dark-Fleury, Luc	Immunological Evaluation of Fecal Microbiome Transplanted Helicobacter Negative Mice with Spontaneous Ileitis
31	P	Delva, Mona	Don't Forget the Osteotomy: High Tibial and Distal Femoral Osteotomy have Comparable Post-operative Complication Rates Despite Differing Demographic Profiles
32	P	DeMario, Belinda	Impact of Comprehensive Trauma Recovery Services on Downstream Utilization of Healthcare Services
33	P	Deshane, Alok	Lyft Transportation and Adherence to Cancer Therapy
34	P	Deshpande, Saarang	Stereotactic Body Radiotherapy is Prescribed at Lower Doses and with Greater Conformality in Patients with Multiple Sites of Early-Stage Non- Small Cell Lung Cancer
35	P	Do, Anthony-Tu	Superior Extended Nasal Myocutaneous Island Flap, an Alternative to Forehead Flap Reconstruction of the Nose
36	P	Dodson, Cassidy	Multimodality Imaging of Melanoma CNS Metastases after Immune Checkpoint Inhibition: a Single Institute Experience
37	P	Drake, Anne	Innovations with Tele-Ultrasound in Education Sonography
38	P	Driscoll, Erin	Effect of S1P on Endothelial Cell Migration through TRPC Channel Externalization

39	P	Dunning, Alexis	SHARE: Supporting Child Health by Activating Relationships: A Mixed Methods Study of Low Income Families
40	P	Eitan, Tal	Investigation of histopathologic patterns of bicuspid aortic valves that underwent Valve-Sparing Aortic Root Replacement
41	P	Ejikeme, Tiffany	Analysis of Demographics and Outcomes for Patients with Metastatic Spine Tumors at a Single Institution
42	P	Ellsworth, Patrick	Analytical Model of Spatial Effects in Prostate Tumor-Stromal Interactions
43	P	Farrokhian, Nathan	Quantification of Allee effects in an in vitro Space
44	P	Feldman, Blake	Aberrant expression of Gasdermin B in Crohn's disease and Ulcerative Colitis
45	P	Felton, Peter	Association of Race with Survival in Intracranial WHO Grade II and III Meningiomas: A Systematic Literature Review
46	P	Gam, Kristina	Race, decisional regret, and the Prostate Cancer Beliefs Questionnaire: identifying targets to reduce racial disparities in prostate cancer
47	P	Gardner, Rachel	Quality Improvement Study to Identify Handoff and Communication Lapses in Trauma Bays at Beth Israel Lahey Health
48	P	Garland, Kevin	Relationship Between Time Of Day and Skin Biopsy Error Rates
49	P	Gaudiani, Michael	Outcomes Following Percutaneous Superficial Medial Collateral Ligament Release During Arthroscopic Treatment of Isolated Medial Meniscal Pathology: A Systematic Review
50	P	Gerges, Christina	Cervical, Thoracolumbar, and Sacral Spine Trauma Classifications: Past, Present, and Future
51	P	Glamour, Benita	Factors Influencing Appropriate Follow-up for Hyperplastic Rectosigmoid Polyps
52	P	Goldstein, Brittany	Mindfulness-Based Stress Reduction as Adjunctive Therapy for Postural Orthostatic Tachycardia Syndrome

53	P	Golubovsky, Joshua	Development of a Novel In-Vitro Model of Bertolotti Syndrome for Biomechanical Analysis and Surgical Intervention
54	P	Gopalakrishnan, Vishhvaan	The Design and Development of an Open Source, Self-Contained, and Multiplexed Bacterial Evolver and Bioreactor
55	P	Gupta, Neha	Association of Medical Student Burnout and Residency Specialty Choice: A Cross-sectional study of medical students at Case Western Reserve University
56	P	Gupta, Nisha	Food Security Moderates Relationship between Perceived Food Environment and Diet Quality among Adults in Communities with Low Access to Healthy Food Retail
57	P	Gupta, Ritika	Inhaled corticosteroids and bacterial bronchitis in children with chronic cough
58	P	Gurumoorthi, Manasa	Counseling Patients with Congenital Heart Disease Regarding Sports Participation
59	P	Haueisen, Alexander	Visual Acuity Outcomes and Disease Progression in Intermediate Stage Non-exudative Age-Related Macular Degeneration Following Cataract Surgery
60	P	Hawkins, Daniel	Clinical Practice Guideline for Peritonsillar Abscess
61	P	Hennekes, Mary	Knowledge and Discussion of End-of- Life Decisions in the Emergency Department
62	P	Hentati, Firas	Outcomes in Patients Treated with Anti- Vascular Endothelial Growth Factor Therapy For Diabetic Macular Edema With Good Baseline Visual Acuity
63	P	Hicks, Kayla	Sex Dependent Differences in Cardiac Myocyte Excitation-Contraction Coupling after Chronic Stimulation of the Delta or Kappa Opioid Receptors During Normoxic and Hypoxic Conditions
64	P	Ho, Vivian	A retrospective cohort study of the effects of a mobile health app "Positive Peers" on the health outcomes of youth and young adults with HIV

65	P	Hoffberg, Emily	Identification of Genomic Features of Pathogenic Bacteria in Severe Crohn's Disease
66	P	Hogue, Bailyn	Investigation of the Relationship Between Femoral Neck-Shaft Angle, Age, and Gender in Developing Children
67	P	Hsu, Jerry	Abbreviated MRI Protocol for Supplemental Screening; Our Initial Experience
68	P	Hu, David	Adhesive Capsulitis: Making the Diagnosis with MRI
69	P	Hu, Jeffery	Histological Comparison of TNF-a Inhibitor-Induced Psoriasis and Psoriasis Vulgaris
70	P	Huang, Heidi	Anatomic and Visual Outcomes for Image-Guided Surgical Intervention in Vitreomacular Traction Syndrome from the DISCOVER Study
71	P	Hy, Jonathan	HPV Vaccine Education
72	0	Jeong, Stacy	Patellofemoral Arthroplasty Surgical Technique: Lateral or Medial Parapatellar Approach
73	P	Joseph, Julia	Immune Subtypes hold independent prognostic significance in Endometrial Carcinoma: Analysis of the Cancer Genome Atlas (TCGA) data set
74	P	Karnuta, Jaret	Whole-genome and Epigenetic Analysis of Chromothriptic Events Reveals a Trifecta of HGMA2 Regulation in Juxtacortical Osteosarcomagenesis
75	P	Kathawa, Cosette	Characteristics and Outcomes of Women with Gynecologic Cancers Undergoing Heated Intraperitoneal Chemotherapy
76	P	Keller, Nicole	Prediction of Pediatric Pelvis Development using Femoral Head and Acetabulum Growth in a Longitudinal Radiographic Study
77	P	Khoury, Marianne	Spine Disorders in Patients with Fibromuscular Dysplasia
78	P	Kim, Amy	Neonatal fat mass and maternal socioeconomic status.

79	0	Kim, Uriel	The Effect of Medicaid Expansion Among Low-Income Adults on Stage at Diagnosis in Screening-Amenable Cancers
80	P	King, Eshan	The effect of pharmacokinetically- induced environmental changes on the evolution of resistance to anti- malarial drugs
81	P	Kipke, Jasmine	The relationship between HIV infection, sex, and cardiac biomarkers among Ugandans with elevated cardiovascular risk
82	P	Krishnan, Nikhil	Manipulating the spatiotemporal dynamics of microbial evolution in theory and experiment
83	P	Kristoff, Tyler	Therapeutic Efficacy of Sacroiliac Joint Injections in Treating Sacroiliac Dysfunction
84	P	Kulpins, Danielle	The effect of a plant-based diet in a DSS-induced model of colitis
85	P	Kuo, Blanche	Endomucin regulates both VEGFR2 and VEGFR1 internalization by human retinal microvascular endothelial cells
86	P	Kyo, Tiffany	Preoperative Localization of Sonographically Suspicious Biopsy Negative Axillary Lymph Nodes in Breast Cancer Patients
87	P	Lang, Katherine	Retrospective Analysis of Patients With Cardiogenic Shock Receiving Mechanical Circulatory Support at University Hospitals
88	P	Lapite, Isaac	Evaluation of International Normalized Ratio (INR) Thresholds for Complications in Hip Fractures Treated with Intramedullary Nailing: Analysis of 20,800 Cases
89	P	Larson, Monica	Familial Factors Affecting the Rate of Recidivism of Violent Injuries in Pediatric Patient
90	P	Lavasseur, Corinne	Impact of immune microenvironment on racial disparities and prognosis in endometrial cancer
91	P	Le Maitre, Vetrica	Predictors of Atrial Fibrillation Recurrence
92	P	Ledingham, Lauren	Burden of Prematurity-Associated Recurrent Wheezing: Caregiver Days Off in D-Wheeze Clinical Trial

93	P	Lee, Chan Mi	Retrospective Analysis of IgG4-RD Patient Population at the Cleveland Clinic between 2007-2017
94	P	Lee, Leah	Ultrasonographic comparison of the lateral epicondyle in wheelchair-user (and able-bodied) tennis players: A pilot study
95	P	Lew, Kellly	A Cross-sectional Study of Urban and Rural Regions of Peru and Assessment of Visual Needs
96	P	Li, Henry	Automated Assessment of Image Quality in Ultra-wide field Fluorescein Angiography using Deep Learning Convolutional Networks
97	P	Li, Joy	Influence of BMI on Risk of Developing Colorectal Cancer: A Population-based National Study
98	P	Lin, Lucas	Music therapy to Improve Quality Of Life in Sickle cell disease (MUSIQOLS): A Pilot Study
99	P	Lindberg, Wesley	Medical Student Experience, Knowledge, and Opinions Regarding PrEP for HIV: Are We Learning Enough?
100	P	Linz, Marguerite	Recommendations for surveillance in practice for patients with low risk adenomas
101	0	Liu, Angela	Role of NF-kappaB c-Rel and O- GlcNAcylation in primary B cell function in autoimmune diabetes
102	P	Loneman, Derek	Phenotypic characterization of CD expression on gamma/delta T lymphocytes by flow cytometry
103	P	Lowing, Dena	Evolution of Opioid Use for Pediatric Fracture Management, a Ten-Year Retrospective Review
104	P	Lu, Elaine	Systematic Literature Review on Mental Health Comorbidities in Patients with Epilepsy
105	P	Maatouk, Christopher	Effects of Anti-VEGF Injection Discontinuation in Diabetic Macular Edema
106	P	Macdougall, Gordon	Neurovascular Relationships of the Antecubital Fossa with Hand Position

107	P	Mahajan, Uma	Dysregulation of multiple metabolic networks related to brain transmethylation and polyamine pathways in Alzheimer's disease: a targeted metabolomic and transcriptomic study
108	P	Malhotra, Nisha	Characterizing how Racial and Socioeconomic Factors Affect Anti- VEGF Treatment Utilization and Outcomes for Diabetic Macular Edema
109	P	Marra, Emily	Knowledge of Reproductive Health Among Cleveland Women
110	P	Martin, Nicole	Cerebral White Matter Disease and Response to Anti-Cholinergic Medication for Overactive Bladder in an Age-Matched Cohort
111	P	Mazahery, Claire	Signaling from individual Opioid Receptors differentially modulates the functional and phenotypic potential of resting and activated human CD8+ T cells
112	P	Mazmudar, Rishabh	United States Stock Market Response to FDA Approval of New Dermatologic Drugs
113	P	Menon, Adil	Modulatory impacts of single-pulse electrical stimulation on the interictal epileptiform discharges in epileptic focus
114	P	Mhonda, Lorado	Improving Engagement in HIV Treatment Through Care Coordination and Patient Navigation in the ED
115	P	Mignery, Matthew	Itaconate: Linking metabolism and inflammation in atherosclerosis regression
116	P	Miller, April	Rituximab administration for prophylaxis of allergic reactions to peg-asparaginase
117	P	Moiseyev, Paul	Radiation Therapy in the Treatment of Heterotopic Ossification
118	0	Mulvihill, Lianne	PET Volumetric Prognostic Index May Be the Most Significant Factor Associated with Overall Survival in Non-Small Cell Lung Cancer Treated with Chemoradiation
119	P	Murali, Sanjana	Effects of EMR Changes Designed to Promote Smoking Cessation in a Gynecologic-Oncology Practice

120	P	Murillo, Sofia	Association Between Endothelial Cell Density and Corneal Swelling in Post- Penetrating Keratoplasty Scleral Contact Lens Wear	
121	P	Myers, Sara	Lidocaine 5% Patch for Acute Post- Operative Pain Following Cesarean Delivery	
122	P	Nabi, Wafa	Views of First-Year Residents and Residency Program Directors on Required Intern Skills	
123	P	Naelitz, Bryan	Prolactin to Testosterone Ratio Predicts Pituitary Adenomas in Young Men with Mild Hyperprolactinemia	
124	P	Narayanamurthy, Vaishnavi	Inter-imaging accuracy of CT, MRI, and TRUS in measuring Prostate Volume	
125	P	Nguyen, Anh	The effects of bariatric surgery on orthostatic heart transplant viability in obese patients: a case series	
126	P	Ogede, Daisy	Living with Epilepsy and a Comorbid Psychiatric Illness: An Evaluation of Clinical and Demographic Differences among this Vulnerable Population	
127	PP	Ogunsola, Oludotun	Systematic Review and Meta-analysis of Radiosurgery and Microsurgery in Brainstem Arteriovenous Malformations	
128	P	Ohlhausen, Marc	Obstacles to Treatment Initiation in Patients with Proliferative Diabetic Retinopathy	
129	P	O'Keefe, Meghan	Interchangeability of Deubiquitinases in NF-kB Signaling Regulation	
130	P	Orfahli, Lynn	Ex-Vivo Normothermic Limb Perfusion Preserves Human Upper Extremities for Up to 50 hours	
131	P	Paliobeis, Andrew	Injury incidence among high school athletes on artificial turf vs natural grass playing surfaces	
132	P	Paoletti, Brian	Utilization of Novel Monitor to Optimize Management of Pain Control After Infant Cleft Lip and Palate Repair	
133	Р	Pasadyn, Selena	Store-and-Forward Teledermatology Impact on Diagnosis, Treatment, and Dermatology Referrals: Comparison Between Four Practice Settings	

134	P	Penuela, Maria	The Impact of Race on the Choice of Delivery Hospital among New York City Women
135	P	Peterson, Elizabeth	Perceptions of Long Acting Reversible Contraception and Barriers to Initiation for Women
136	P	Prasad, Kiran	Developing and Testing the Fetal Alcohol Screening Tool (FAST)
137	P	Qiao-Guan, George	Trigeminal nerve volume and integral dose as a predictive measure for pain control in patients with trigeminal neuralgia
138	P	Quereshy, Humzah	Management x Medicine: A New Concept in Medical Education
139	P	Rabah, Nicholas	Key Drivers of Patient Satisfaction in the Outpatient Spine Surgery Setting
140	P	Radzinsky, Ethan	Head and Neck Imaging in Oncologic Patients on Immune Checkpoint Inhibitor Therapy Presenting to the Emergency Department with Neurologic Symptoms: Experience at a Single Institute
141	P	Rahman, Farah	Assessing the Feasibility of Two Prenatal Breastfeeding Interventions to Promote Exclusive Breastfeeding In-Hospital: Part II
142	P	Rahman, Sarah	Barriers to Collecting Patient- Reported Data for Surgical Patients with Limited English Proficiency
143	P	Rasendran, Chandruganesh	Visual Outcomes following Cataract Surgery in Geographic Atrophy Patients in Routine Clinical Practice
144	P	Ravishankar, Pavitra	The effect of Anti-TNF Biologic Agents on Outcomes of Patients Undergoing Spine Surgery
145	P	Redmond, Sarah	Timing and route of contamination of patient rooms with healthcareassociated pathogens
146	P	Remer, Sarah	Kangaroo Care in the Neonatal Intensive Care Unit
147	0	Ren, Bryan	Time to surgery affects return to work rates in Workers' Compensation patients with single level lumbar disc herniation
148	P	Rivera, Trenton	Implementing Psychosocial Programming at a Level 1 Trauma Center: Results From A 5 Year Period

149	P	Robinson, Jasmine	Prevalence of Gastric Cancer Screening in Individuals with Gastritis in an Urban City in Peru
150	P	Rodriguez Vazquez, Marla	Evaluating Surgical Margin Documentation & Appropriateness on Cutaneous Squamous Cell Carcinoma Outcomes
151	P	Rosinski, Bradley	Cardiovascular Surgery in Patients with Dementia is Safe: A Nationwide Perspective
152	0	Rouabhi, Mohamed	Orthostatic Hypertension in Chronic Kidney Disease
153	P	Ruthberg, Jeremy	Redesigning the medical school anatomy curriculum using an augmented reality-based education platform
154	P	Sadda, Vineeth	Examining Preoperative Opioid Use in Lumbar Fusion Patients in 2016 vs 2018
155	P	Sauer, Adam	PET/MR and Perfusion MRI for the Differentiation of Therapy-Related changes from Tumor Progression in Glioma Patients
156	P	Sawaf, Tuleen	Imaging in Pediatric Bilateral Sensorineural Hearing Loss: Diagnostic yield with Computed Tomography (CT) versus Magnetic Resonance Imaging (MRI)
157	P	Scarborough, Jessica	Deriving Robust Gene Signatures Predictive of Chemotherapeutic Response
158	P	Sechrist, Haley	Concordance of Breast Cancer Biomarker Status between Routine Immunohistochemistry/ISH/FISH and Oncotype DX qRT-PCR with Investigation of Discordance, a Study of 591 Cases
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160	P	Shearer, Jennifer	Evaluating the Effectiveness of Transition of Care for Pediatric Inflammatory Bowel Disease Patients Using a Standardized Transition Process
161	P	Sheth, Reena	Curative Intent Resection for Loco- regionally Recurrent Colon Cancer: Cleveland Clinic Experience

162	P	Shimberg, Jilan	Pre-Treatment MRIs in Tibial Spine Fractures: How Much Are We Missing? A Multicenter Study
163	P	Simi, Andrea	Audiologic Phenotype and Progression in Pediatric STRC-related Autosomal Recessive Sensorineural Hearing Loss
164	P	Simmons, Elanee	Using Social Media Sites for Dermatology Residency Recruitment: Are we there yet?
165	P	Simon, Emily	Reducing the burden of chronic psychotic disorders in Tanzania: Patterns of alcohol use among Tanzanians with chronic psychotic disorders using the Alcohol Use Disorder Identification Test (AUDIT) and the Alcohol, Smoking and Substance Involvement Screening Test (ASSIST)
166	P	Sin, David	Fast MRI Breast Cancer Screening
167	P	Smith, Arvin	Seasonal, Geographic, and Temporal Patterns in Global Botox Interest Using Google Trends
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169	0	Snider, Christina	RORA is a Potential Prognostic Biomarker and Therapeutic Target for Patients with Acute Myeloid Leukemia
170	P	Speaker, Sidra	How do we address prediabetes in the outpatient setting?
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172	P	Spitzer, Monica	Sleep-related Headache in Children
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174	P	Stumpf, Nathan	Anterior Lumbar Interbody Fusion Reduces Spinal Cord Compression in the Setting of Degenerative Spondylolisthesis
175	P	Sudhakar, Shwetha	Health literacy and education level correlates of participation and outcome in a remotely delivered epilepsy self-management program

176	P	Summerville, Lesley	Examining Utilization of Surgical Treatment for Sleep Apnea: A Study of Demographic Disparities Using the National Inpatient Sample Database (NIS)
177	P	Sundar, Sapna	Utility of Myxovirus A immunohistochemistry for distinguishing chilblain lupus erythematosus skin lesions from idiopathic chilblains
178	P	Sunshine, Kerrin	3D Patella Bone Shape Modeling after ACL Injury
179	P	Tamashunas, Nina	Teaching Motivational Interviewing of Older Adults to an Interprofessional Group of Health Professions Students: A Pilot Study
180	P	Tavera, Gloria	Genetic Ancestry of Helicobacter pylori Is Consistent with Disrupted Co-Evolution in a Model of Gastric Disease
181	P	Teplensky, Jason	Sacral curvature is associated with variation in pedicle divergence in the lumbar spine
182	P	Terry, Morgan	A review of tracheostomy clinical factors and outcomes at multiple institutions.
183	P	Tippareddy, Charit	OSPRI & SANTE: Color Your Water Clean
184	P	Tran, Thang	Factors associated with failed same day discharge in patients undergoing minimally invasive hysterectomy for endometrial cancer
185	P	Tripathi, Raghav	Trends in Emergency Department Visits due to Sunburn in the United States
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188	0	Truong, Tiffany	Nutrition in the Ambulatory Setting for Chronic Wounds
189	P	Tucker, Nicholas	Risk of Reintervention After Valve- Sparing Aortic Root Replacement (David Reimplantation)

190	P	Tye, George	Primary Small Bowel Adenocarcinoma Presenting with Duodenal Stricture and Hepatic and Gastroduodenal Artery Encasement: A Case Report
191	P	Ugwuegbu, Obinna	Prevalence of esophageal disease in Cannabis users: A population based cohort study
192	0	Unger, Robert	Premotor transcranial direct current stimulation increases inter- hemispheric resting-state functional connectivity in patients with chronic stroke
193	P	Urbano, Catherine	Real-World Treatment Patterns in a Population with Neovascular Age- Related Macular Degeneration (nAMD) treated with Anti-Vascular Endothelial Growth Factor (VEGF) Agents
194	P	Uzoegwu, Chukwumamkpam	Evaluating the Performance of a Logic-Based Algorithm in Segmenting OCT Scans of Retinal Pathologies
195	P	Vij, Arjun	Improving Radiology Education: Needs Assessment
196	P	Wadhwa, Raoul	A statistical test to characterize topology and structure of genomic networks
197	P	Wan, Angie	Dermatology Advice, Advice Seekers, and Advice Givers on Reddit
198	P	Wang, Christine	Multi-pronged Electronic Health Record and Patient Portal-Based Interventions to Address COPD Misdiagnosis and Overdiagnosis
199	P	Wang, Jacqueline	Use of Stereotactic Radiosurgery and Chemotherapy Treatment Patterns in Breast Cancer Brain Metastases
200	P	Wang, Victoria	Consequences of Discontinuations in Treatment for Patients Receiving Intravitreal Anti-VEGF Injections for Neovascular Age-Related Macular Degeneration
201	P	Weaver, Davis	Identification of miRNA candidates for targeted therapy of Ewing's Sarcoma
202	P	Winkelman, Robert	The Change in Postoperative Opioid Prescribing After Lumbar Decompression Surgery Following A State-Level Prescribing Reform

203	0	Witkin, Matthew	15-PGDHi Attenuates Bleomycin Induced Pulmonary Fibrosis
204	P	Wottrich, Stephanie	Putative Pseudolysogeny-Dependent Phage Gene Implicated in the Superinfection Resistance of Cutibacterium acnes
205	P	Wu, Anna	Proton Beam Therapy Versus Intensity Modulated Radiation Therapy (IMRT) for Periorbital Malignancies
206	P	Wu, Tiffany	Peer-Led Sessions Effective in Teaching Regional Anesthesia & Microsurgery Tools to Surgery Residents
207	P	Wynia, Elisabeth	Pain Control Related and Opioid Overdose Related Second ED Visits in Pediatric Fracture Patients
208	P	Xia, Thomas	Outcomes of implant-based reconstruction following nipplesparing mastectomy: 1 stage vs 2 stage reconstruction
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210	P	Yoon, Justin	Outcomes of Valve-Sparing Aortic Root Reimplantation in Patients With or Without Connective Tissue Disorders
211	0	Younis, Joseph	Removal of Symptomatic Implants and Capsules Improves Pulmonary Function: An Objective Outcome Assessment in Breast Implant Related Illness
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213	P	Yupari Yui, Renato	Passive verification of contact lens prescriptions leads to high verification error rates
214	P	Zaas, Robert	Minimum Required Follow-up after Total Hip and Knee Arthroplasty: Are Patient-Reported Outcome Measures at 1 and 2 Years Equivalent?
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216	P	Zia, Lyba	The Impact of Antenatal Mood Disorders on Exclusive Breastfeeding: A Prospective Cohort

