7th RESIDENT RESEARCH DAY SYMPOSIUM

Research...It’s in our DNA
We are pleased to welcome you to the 7th Annual Michael E. DeBakey Department of Surgery Resident Research Day Symposium.

The mission of the department’s research program is to conduct important research in surgical disease that will improve treatment and quality of life for affected patients, and to train future leaders in academic surgery. This year’s symposium underscores both aspects of this mission by highlighting the exciting research activities of our residents, fellows, staff, and students. Our trainees and staff will present work that spans all of our divisions and all of our affiliated hospitals. Their accomplishments also reflect the outstanding mentorship that our faculty members provide.

We are honored to welcome Dr. Dorry Segev from Johns Hopkins University as our keynote speaker presenting, “From Artificial Intelligence to Actual Intelligence: Changing Surgical Policy and Practice with Big Data.”

We are extremely grateful to our panel of guest scientists—Drs. Aimee Gardner, Marie Claude Gingras, Sankar Navaneethan, Sidharth Prakash, and Junghae Shu—who have generously given their time to serve as judges in today's competitions. We also wish to thank several members of our department’s research committee—Drs. Ghanashyam Acharya, Neal Barshes, Bryan Burt, Faisal Cheema, Changyi (Johnny) Chen, Stuart Corr, William Fisher, Ravi Ghanta, Ramyar Gilani, Raymon Grogan, Sundeep Keswani, Panagiotis Kougias, Nader Massarweh, Bijan Najafi, Jed Nuchtern, Abbas Rana, R. Taylor Ripley, Sohail Shah, James Suliburk, Deborah Surman, Alastair Thompson, S. Rob Todd, John Vierling, and Qizhi Cathy Yao—for scoring the submitted scientific abstracts.

Finally, we sincerely thank Ronnetta Etter, Scott Holmes and Ashley Benning for their terrific work organizing the symposium during the last several months, as well as the members of the Office of Surgical Research for their assistance during the event.

We hope that you will join us in congratulating all of today’s participants on their achievements.

Todd K Rosengart MD
Chair

Scott A LeMaire MD
Vice Chair for Research

Changyi (Johnny) Chen MD PhD
Director, Basic Science and Translational Labs

Barbara W Trautner MD PhD
Director, Clinical and Health Services Research

Today, the Department has over 150 full-time faculty, who are organized into the following surgical divisions: Abdominal Transplantation, Cardiothoracic Surgery, Cardiothoracic Transplantation & Circulatory Support, Congenital Heart Surgery, General Surgery, General Thoracic Surgery, Pediatric Surgery, Plastic Surgery, Surgical Oncology, and Vascular Surgery & Endovascular Therapy. Each year, patients from around the world seek the surgical care of our faculty. In all, the Department serves the surgical needs of more than 100,000 patients annually at six affiliated institutions. These modern facilities, all located within the Texas Medical Center, are fully equipped to support state-of-the-art surgical techniques and surgical care.

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Dorry Segev, MD, PhD, is the Marjory K. and Thomas Pozefsky Professor of Surgery and Epidemiology and associate vice chair of Surgery at Johns Hopkins University. He is the founder and director of the Epidemiology Research Group in Organ Transplantation (ERGOT), the largest and most prolific group of its kind in the world. Dr. Segev was the first to demonstrate the survival benefit of incompatible kidney transplantation across the United States, and is responsible for the first HIV-to-HIV transplants in the United States. His NIH-funded research includes kidney exchange, desensitization, long-term donor risk, access to transplantation, expanding transplantation including HIV+ donors, geographic disparities, post-transplant outcomes, and the intersection between transplantation and gerontology. With a graduate degree in biostatistics, Dr. Segev focuses on novel statistical and mathematical methods for simulation of medical data, analysis of large healthcare datasets, and outcomes research. Dr. Segev has published almost 500 peer-reviewed research articles, including 15 in *JAMA, NEJM,* and *Lancet* and over 150 in the *American Journal of Transplantation*. Reflecting this publication track record, he was recently awarded the American Society of Transplantation’s Clinical Science Investigator Award. He is a current councilor of the American Society of Transplant Surgeons and former chair of the American Transplant Congress. His work has directly influenced policy, including two Congressional bills (the Norwood Act for kidney exchange and the HOPE Act for HIV-to-HIV transplants), and is regularly featured in widely read media including *TIME Magazine, Wall Street Journal,* and the *New York Times.* Dr. Segev is most inspired by his role as a mentor, having mentored over 100 graduate students, residents, and faculty, and is the only general surgeon in the US funded by an NIH/NIDDK Mentoring Grant.
Poster Session
Tuesday, June 4

4:00 – 6:00 pm

Posters of Distinction
Resident and Fellow Poster Competition

Poster # 1
“Quantification of Mandibular Morphology in Pierre Robin Sequence Using Novel 3-Dimensional Techniques”

Angela S Volk, John O Wirthlin, Robert F Dempsey, Amit M Narawane, Edward P Buchanan

Poster # 2
“Cost-Effectiveness Analysis of The Surgical Management of Infants Under 1 Year of Age With Feeding Difficulties”

Yangyang R Yu, Megan E Cunningham, Annalyn S DeMello, Eric H Chiou, Panagiotis Kougias, David E Wesson, Mary L Brandt, Monica E Lopez

Poster # 3
“Sex-Based Differences in Ten-Year Nationwide Outcomes of Carotid Revascularization”

Jessica M Mayor, Jason L Salemi, Deepa Dongarwar, Hamisu M Salihu, Miguel Montero-Baker, Joseph L Mills, Jayer Chung

Poster # 4
“Learning Curve of Fenestrated Endovascular Aneurysm Repair”

Jerry J Kim, Jonathan Braun, Houssam Younes, Neal R Barshes, Joseph L Mills, Panos Kougias

Poster # 5
“Accidental Firearm Injuries in Children: Identifying Opportunities for Injury Prevention”

Brittany Johnson, Christi Reeves, Annalyn Demello, Bindi Naik-Mathuria

Poster # 6
“Spontaneous Pneumomediastinum: A 36-Patient Level I Trauma Center Case Series”

Arsalan Amin, Sujana Balla, Emilie Warren, Ravi K Ghanta
Clinical and Research Staff Poster Competition

Poster # 7
“The Effect of Daily Use of a Wearable Foot Compression Device on Plantar Sensation and Motor Symptoms in People with Diabetic Peripheral Neuropathy”

Manuel Gardea, Gu Eon Kang, Mohsen Zahiri, Brian Lepow, Bijan Najafi

Poster # 8
“Long-Term Mortality after Open or Endovascular Abdominal Aortic Aneurysm Repairs”

Sherene E Sharath, Nader Zamani, Joseph L Mills, Panos Kougias

Poster # 9
“Feasibility of Frailty Meter (FM) Assessment in Adolescent and Young Adult Survivors of Childhood Cancer”

Nicole Krnavek, Mohsen Zahiri, Solomon Ajasin, Bijan Najafi, Monica Gramatges

Poster # 10
“Operationalizing a Sensor-Based Frailty Index to Assess Functional Status in the Older Population”

Jacqueline Yang, Hung Nguyen, Joseph Mills, Miguel Montero-Baker, Jayer Chung, Mohsen Zahiri, Hector Elizondo, Luciana Narvaez, Bijan Najafi

Poster # 11
“Improving Tissue Expander Protocol”

Michelle Kelly, Shayan Izaddoost, Sebastian Winocour

Poster # 12
“Using Digital Outcome Measure to Determine Severity of Chemotherapy-Induced Peripheral Neuropathy (CIPN)”

Olia Poursina, Mohsen Zahiri, He Zhou, Hung Nguyen, Biruh T Workeneh, Sarvari V Yellapragada, Yvonne H Sada, Bijan Najafi
Student Poster Competition

Poster # 13
“Axillary Lymph Node Dissection after Neoadjuvant Chemotherapy for Patients with Node-Positive Breast Cancer”
Jacob L Kraus, Cary Hsu, Eric J Silberfein

Poster # 14
“Bridging to Cardiac Re-Transplantation Using Mechanical Circulatory Support: Analysis of the United Network of Organ Sharing Database”
Audrey L Wright, Harveen Lamba, Andre C Critsinelis, Abbas Rana, Andrew Civitello, Ajith P Nair, Reynolds Delgado, Gabriel Loor, Alexis Shafii, O H Frazier, Jeffrey A Morgan

Poster # 15
“Renal Replacement Therapy in Patients After Continuous Flow Left Ventricular Assist Device Implantation”
Umang Parikh, Muhammad Ajmal, Harveen Lamba, Justin Vincent, Carl Walther, Subhasis Chatterjee, Alexis Shafii, Whitson Etheridge, Andrew Civitello, Jeffrey Morgan

Poster # 16
“Correlation of Patching Compliance with Visual Outcomes in Unilateral Cataract Surgery”
Jonathan A Go, Huirong Zhu, Kimberly G Yen

Poster # 17
“Sensing Intracellular Temperature with a BODIPY Molecular Rotor”
Meredith McDowell, Stuart J Corr

Poster # 18
“Inflammasome Pathway Proteins are not Upregulated in Marfan Thoracic Aortic Dissection Patients”
Richard Appel, Pingping Ren, Hernan Vasquez, Ying H Shen, Scott A LeMaire
Research has become one of the highest priorities for Baylor College of Medicine’s Department of Surgery, driven by our vision to improve quality of life for patients here at Baylor and beyond, and to train future leaders in academic surgery. To support this priority, the Office of Surgical Research (formerly known as the “Research Core,”) was created in 2014 to support the research efforts of members of the Department. Our highly qualified team is able to provide education, guidance, and practical assistance with the research process, from research design and aims development to proposal routing and successful publication.

The Team
Our research support team includes a practicing MD with a PhD in clinical investigation, biostatisticians, database experts, regulatory experts, clinical trial coordinators, grants and contracts managers, a medical editor, and medical illustrators. These resources are shared among our divisions, and are available without cost to all faculty and their associated trainees. We are here to help navigate the detailed, sometimes complex tasks required to conduct quality and compliant research studies. Our goal is to enable investigators to stay focused on their work at the bench and the bedside.

Services
• Aims development
• Clinical trial support
• IRB templates/examples
• Regulatory compliance
• Statistical support
• Budget support
• Document/manuscript editing
• Preparation of figures, tables, and medical illustrations
• Proposal routing
• Report submission

To find out more, visit our website at:
bcm.edu/departments/surgery/research/core

Want to submit a funding proposal?
It is easy to begin the process. Simply click the link on our website page and fill out the short online Intent to Submit form to let us know about your project.

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Regulatory support
Elizabeth Soriano: soriano@bcm.edu
7:00 – 7:10 am Welcome  
Dr. Todd K Rosengart

Announcement of Recipients:  
Quality Improvement Seed Grant Awards for Physician Assistants and Nurse Practitioners  
Dr. Samir S Awad

7:10 – 7:20 Opening Remarks  
Dr. Bradley Lembcke  
Senior Vice President and Chief Medical Officer, CHI Texas Division

Dr. Christopher Amos  
Director, Institute of Clinical and Translational Research, Baylor College of Medicine  
Associate Director of Quantitative Science, Dan L Duncan Comprehensive Cancer Center

7:20 – 8:15 Keynote Address  
“From Artificial Intelligence to Actual Intelligence: Changing Surgical Policy and Practice with Big Data”  
Dr. Dorry Segev

8:15 – 9:20 Quick Shot Scientific Presentations  
(3 min + 3 min questions)  
Moderators: Drs. Lorraine Cornwell and Abbas Rana

“Daily-Use Effects of Custom-Made Ankle-Foot Orthoses (AFO) on Balance in Older Adults—One Year Prospective Randomized Controlled Trial”  
Changhong Wang, Rahul Goel, Brian Lepow, Bijan Najafi

“Impact of Hydroxyurea Therapy on Surgical Splenectomy Rates in Sickle Cell Disease Patients”  
Mariatu A Verla, Gladstone E Airewele, Candace C Style, Hamsini Sriraman, Oluyinka O Olutoye

“Malnutrition in Vascular Surgery Patients: Beyond Serologic Markers”  
Jorge A Miranda, Neal R Barshes

“A Saliva-based Proteomic Approach for Biomarker Discovery: A Novel View into Gastroschisis Outcomes”  
Emily H Steen, Elizabeth Sager, Amy B Hair, David Hawke, Sundeep G Keswani
“Genome-Wide DNA Methylation and Gene Expression Profile in Human Male and Female Aortic Smooth Muscle Cells”

Yanming Li, Pingping Ren, Hernan G Vasquez, Ying H Shen, Scott A LeMaire

“A Meta-Analysis Appraisal of Synchronous Colorectal and Liver Metastases Resection: an Approach with Merit”

Zachary R Chizmar, Helmi Khadra, Caroline Cahill, Jason Crowther, Joseph F Buell

“Identifying Circulating Tumor Cells and Cell Free DNA in Pancreatic Ductal Adenocarcinoma”

Katherine A Baugh, Martina Navarro-Cagigas, George Van Buren, William E Fisher

“Press Ganey Scores and Quality Outcomes in the Surgical Literature”

Amjed Abu-Ghname, Edward Reece, Larry H Hollier

“The Impact of Mitral Valve Surgery on Hospital Readmission and Resource Utilization”

Rodrigo Zea-Vera, Rohan M. Shah, Subhasis Chatterjee, Matthew J Wall, Todd K Rosengart, Ravi K Ghanta

“Clinical vs Serologic Malnutrition in Patients with Gastrointestinal Cancer”

Nicole Villafane-Ferriol, Lilyann Le, Lauren Probstfeld, Nader N Massarweh, Christy I Chai, Samir S Awad, Hop S Tran Cao

9:20 – 9:40 Coffee Break, Visit Posters

9:40 – 10:25 Scientific Presentations – Clinical Research
(5 min + 5 min questions)
Moderators: Drs. Philip Carrot and Bindi Naik-Mathuria

“Primary Colorectal Cancer Mutations Associated with Survival and Recurrence After Pulmonary Metastasectomy”


“Effect of Postoperative Permissive Anemia and Cardiovascular Risk Status on Outcomes after Major General and Vascular Surgery Interventions”

Nader Zamani, Sherene E. Sharath, Zhibao Mi, Kousick Biswas, Joseph L Mills, Panos Kougias Invited discussant: Dr. Michele Loor

“Pathologic Vascular Invasion Correlates with Worse Outcome in Hepatoblastoma Patients Treated with Liver Transplantation–A Hepatoblastoma Transplant Consortium Study”

Richard Whitlock, Tahir Malik, Huirong Zhu, Tu-Anh Ha, Sarah Jane Commander, Rakesh Sindhi, Stephanie Kim, Khashayar Vakili, William Chapman, Mercedes Martinez, John Goss, Sanjeev Vasudevan Invited discussant: Dr. N Thao N Galvan

“Association between Very Low Left Ventricular Ejection Fraction, Complication Rescue, and Long-Term Survival After Isolated Coronary Artery Bypass Grafting”

Ademola A Adeseye, Shuab Omer Invited discussant: Dr. Ourania Preventza

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10:25 – 11:10 Scientific Presentations – Basic Science
(5 min + 5 min questions)
Moderators: Drs. Swathi Balaji and Matthew Cusick

“Assessing the Efficacy of Novel RYR2 Inhibitor, EL20, in iPSC-CMs from a Catecholaminergic Polymorphic Ventricular Tachycardia Patient”

Tarah A Word, Andrew Landstrom, Christina Miyake, Ann P Quick, Mayra K Shak, Hugh D Allen, Xander HT Wehrens
Invited discussant: Dr. Ravi K Ghanta

“Mechanical Tension Influences the Regulatory Landscape of MSC-Derived Exosomes During Wound Healing”

Hima V Vangapandu, Matthew Robertson, Daniel Colchado, Natalie Templeman, Hui Li, Yao Ning, Alexander Blum, Paul Bollyky, Sundeep Keswani, Shayan Izaddoost, Cristian Coarfa, Swathi Balaji
Invited discussant: Dr. Sebastian Winocour

“Critical Role of Absent in Melanoma-2 (AIM2) Inflammasome in the Development of Sporadic Aortic Dissection”

Waleed Ageedi, PingPing Ren, Yidan Wang, Chen Zhang, Joseph Coselli, Ying Hu Shen, Scott A LeMaire
Invited discussant: Dr. Vivek Singh

“Mesothelin Exerts Immunosuppression Effect through Upregulating PD-L1 in Pancreatic Cancer”

Dongliang Liu, Ethan Poteet, Zhengdong Liang, Zhiyin Yu, Changyi Chen, Qizhi Yao
Invited discussant: Dr. R Taylor Ripley

11:10 – 11:45 Student Quick Shot Presentations
(3 min + 3 min questions)
Moderators: Drs. Stephanie Gordy and R Mario Vera

“Predictors and Impact of Vasoplegia After Continuous-Flow Left Ventricular Assist Device Implantation”

Mary Kim, Harveen Lamba, Theodore Zhang, Rachel Miller, Joggy George, Andrew Civitello, Reynolds Delgado, Ajith Nair, Alexis Shafii, Gabriel Loor, O H Frazier, Jeffrey Morgan, Subhasis Chatterjee

“Intra-Operative Delivery of Oncolytic Virotherapy using Stem Cells after Surgical Resection for the Treatment of Glioblastoma”

Sricharan Gopakumar, Frederick F Lang

“Patient Centered Mobile Technology Based App Improves Patient Activation in Self-Care and Recovery After Surgery and Reduces Anxiety: A Randomized Controlled Trial”

Peter S Yun, Kevin Shah, Christopher Frey, Cameron MacDonald, Diana Gutierrez, Eric J Silberfein, Cary Hsu, James W Suliburk

“Engineering Cell-Based Delivery of Cytokines for Pancreatic Cancer”

Alen Trubelja, Amanda Nash, Dongliang Liu, Yufei Cui, Sudip Mukherjee, Maria Ruocco, Qizhi Yao, Omid Veiseh

“Room for Optimism; Improvement in Long-Term Patient and Graft Survival of Kidney Transplants in the United States Over the Past Three Decades”

Catherine Wu, Bhamidipati Murthy

11:45 – 12:00 Awards
Past Awardees

2018
Best Poster – Residents and Fellows - Dr. Elaine Vo
"Atypical ductal hyperplasia and rate of upgrade to carcinoma on excision at a safety net hospital"
Mentor: Dr. Eric Silberfein

Best Poster – Clinical and Research Staff - Lin Zhang
"Ciprofloxacin increases susceptibility to aortic dissection and rupture in mice"
Mentors: Drs. Scott LeMaire and Ying Shen

Best Poster – Medical Students - Evelyn Pan
"Cold ischemia time is an important risk factor for post-liver transplant prolonged length of stay"
Mentor: Dr. Abbas Rana

Best Student Quick Shot Presentation - Jacqueline Olive
"Acute type A aortic dissection: Propensity-score analysis for patients who underwent traditional versus hybrid procedure with antegrade endovascular stent"
Mentor: Dr. Ourania Preventza

Best Quick Shot Presentation - Dr. Emily Steen
"Altered shear forces precipitate fibrotic remodeling in discrete subaortic stenosis"
Mentor: Dr. Sundeep Keswani

Best Basic Science Presentation - Dr. Patricio Lau
"Increase in nitric oxide formation and near-infrared spectroscopy values, while NEC incidence decreases with arginine and citrulline supplementation in a premature piglet model"
Mentor: Dr. Oluyinka Olatoye

Best Clinical Research Presentation - Dr. Nader Zamani
"Addressing postoperative wound complications following lower extremity revascularization: a propensity-adjusted analysis"
Mentor: Dr. Neal Barshes

2017
Best Quick Shot Presentation – Dr. Bradley Jacobsen
"Rabbit Model of Ocular Indirect Photodynamic Therapy"
Mentor: Dr. Charles Gomer

Best Clinical Research Presentation – Dr. Yangyang Yu
"A Prospective Same Day Discharge Protocol for Pediatric Appendicitis: Adding Value to a Common Surgical Condition"
Mentor: Dr. Monica Lopez

Best Basic Science Presentation – Dr. Sarah Woodfield
"MDM4 Inhibition as a Therapy to Reactivate p53 in Liver Cancer"
Mentor: Dr. Sanjeev Vasudevan

Best Student Quick Shot Presentation – Phoebe Lewis
"Blocking CTLA-4 Enhances HIV-specific B-cell Responses in HIV VLP Vaccination"
Mentor: Dr. Cathy Yao

2016
Best Quick Shot Scientific Presentation - Dr. Celia Robinson
"The Effect of a Preoperative Decontamination Protocol on Surgical Site Infections in Elective Surgery"
Mentor: Dr. Samir S Awad

Best Clinical Research Presentation - Dr. Jennifer Moffett
"Probability of Transplant (POT) Index: A Novel Method to Predict the Likelihood of an Adult Liver Transplant"
Mentor: Dr. Abbas Rana

Best Basic Science Presentation - Dr. Vivek Patel
"Unlocking Reprogramming Capability: Silencing Antiplasticity Gene p63 Enhances the Reprogramming of Fibroblasts into Induced Cardiomyocytes"
Mentor: Dr. Todd K Rosengart

Best Student Quick Shot Presentation - Phoebe Lewis
"Combination Therapy of miR-198 with Gemcitabine Reduces Tumor Progression in Patient-derived Xenografts (PDX) Models for Pancreatic Ductal Adenocarcinoma (PDAC)"
Mentor: Dr. Qizhi Yao

2015
Best Quick Shot Scientific Presentation - Dr. Yan Shi
"MDM4 is a Potential Novel Therapeutic Target in Hepatocellular Malignancy"
Mentor: Dr. Sanjeev A Vasudevan

Best Clinical Research Presentation - Dr. Gala M. Barden
"Association of Surgical Site Infection with Survival and Receipt of Adjuvant Chemotherapy after Curative Resection for Non-metastatic Colon Cancer"
Mentor: Dr. Daniel Anaya

Best Basic Science Presentation - Dr. Somala Mohammed
"Improving Chimeric Antigen Receptor Modified T cell Function by Reversing the Immunosuppressive Tumor Microenvironment of Pancreatic Cancer"
Mentor: Dr. William E Fisher

Best Student Quick Shot Presentation - Omar Merchant
"Potential of Highly Angiogenic Peptides for Ischemic Tissue Disease"
Mentor: Dr. Jeffrey Hartgerink (Rice University)

2014
Best Quick Shot Scientific Presentation - Dr. Somala Mohammed
"Improving Chimeric Antigen Receptor-modified T cell Function by Reversing the Immunosuppressive Tumor Microenvironment of Pancreatic Cancer"
Mentor: Dr. William E Fisher

Best Clinical Research Scientific Presentation - Dr. Nicole Tapia
"Checklist-enhanced Handoffs: A Randomized Controlled Trial of Standardized Surgical Resident Handoff"
Mentor: Dr. James W Suliburk

Best Basic Science Presentation - Dr. Darrell Wu
"Oxidative Stress Induces Smooth Muscle Cell Contractile Dysfunction Leading to Aortic Wall Failure"
Mentors: Dr. Scott LeMaire and Dr. Ying Shen

Best Student Quick Shot Presentation - Kelsey Lau
"The Impact of a Regional Hepato-pancreaticoduodenal Surgical Program on Clinical Volume, Quality of Cancer Care, and Outcomes in the VA System"
Mentor: Dr. Daniel Anaya

2013
Best Oral Presentation - Dr. Darrell Wu
"NLRP3 Inflammasome Cascade Activates MMP-9 and Induces Smooth Muscle Cell Contractile Dysfunction and ECM Destruction in Thoracic Aortic Disease"
Mentors: Dr. Scott LeMaire and Dr. Ying Shen

Best Poster Presentation - Dr. Irene T. Ma
"DUSP26 Inhibition: A Potential Therapeutic Pathway in Neuroblastoma"
Mentor: Dr. Sanjeev A Vasudevan

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Scientific Posters

Poster # 19
“National Variations in Management of Primary Hyperparathyroidism in the VA Healthcare System”
Elizabeth A Alore, Liang Chen, David J Ramsey, Konstantinos I Makris

Poster # 20
“Gait, Balance, and Frailty: A Comparison Between Hemodialysis Patients with and Without Obesity”
Nesreen El-Rafaei, Fadwa Al-Ali, He Zhou, Abdullah Hamad, Rania Ibrahim, Talal Talal, Bijan Najafi

Poster # 21
“Comparison of Pain Scores in Postoperative Patients: Intravenous Morphine Patient-Controlled Analgesia vs Iontophoretic Transdermal Fentanyl”
Gabriel D Glaun, Anthony M Caram, Nirav Patel, Hayden M Sandler, David Lebowitz

Poster # 22
“Health Care Utilization of Transgender Patients in a Medicaid Population”

Poster # 23
“Different Risk Factors For Ischemic and Hemorrhagic Stroke on Continuous Flow Left Ventricular Assist Device Support”
Harveen Lamba, Mary Kim, Lucy Hart, Brendan Chou, Chethan Rao, Andrew Chatterjee, Reynolds Delgado, Ajith Nair, Alexis Shafii, Gabriel Loor, OH Frazier, Jeffrey Morgan, Subhasis Chatterjee

Poster # 24
“Trends in Resident Operative Trauma: How to Train Future Trauma Surgeons?”
Tashinga Musonza, M Andrew Davis, Bradford G Scott, S Rob Todd, John Potts

Poster # 25
“Wearable Sensor-Based Measurement of Sternal Skin Movement during Sit-to-Stand Transition with and without Cross-Arm Sternal Precaution”
Maria Noun, Changhong Wang, Rahul Goel, Ravi K Ghanta, Bijan Najafi

Poster # 26
“Traumatic Innominate Artery Injury: Updates and New Lessons from a 15-Year Review”
Ndidi C Okeke, S Rob Todd, Matthew J Wall
Poster # 27
“Single Vessel Approach to Tibial Revascularization in Patients with Critical Limb Threatening Ischemia”
Zachary Pallister, Joseph L Mills, Miguel Montero-Baker

Poster # 28
“Minimally Invasive Explantation of a Centrifugal-Flow Left Ventricular Assist Device after Myocardial Recovery by Utilizing a Felt Plug Method”
Alexander Schutz, Aladdein Mattar, Gabriel Loor, William E Cohn, Alexis Shafii

Poster # 29
“The Nonprofit Sector: Navigating its Waters from a Surgery Vantage”
Aspinder Singh, Faryan Jalabadi, Edward Reece

Poster # 30
“Risk Factors for Tracheostomy in Patients with Congenital Diaphragmatic Hernia”
Candace C Style, Mariatu A Verla, Timothy C Lee, Sara C Fallon, Caraciolo J Fernandes, Sundeep G Keswani, Adam E Vogel, Oluyinka O Olutoye

Poster # 31
“Detection of Forward Propulsion Using a Single Accelerometer During Walking”
Ilse P Torres, Mohammad Shahbazi, Mohsen Zahir, Bijan Najafi

Poster # 32
“Daily Use of Bilateral Custom-Made Ankle-Foot Orthoses for Reducing Foot Pain in Older Adults”
Shannon Varghese, Changhong Wang, Rahul Goel, Varsha Varghese, Brian Lepow, Bijan Najafi

Poster # 33
“Mitral Valve Repair Rate at a Veterans Affairs Hospital Utilizing a Multidisciplinary Heart Team”
Darrell Wu, Ernesto Jimenez, Shuab Omer, Lorraine Cornwell, Todd K Rosengart, Joseph S Coselli

Poster # 34
“Intercalated Disc Nanodomain Expansion in Patients with Atrial Fibrillation”
Matthew S Yanoff, Raisch B Tristan, Larsen R Timothy, Farooqui A Mohammed, Veeraraghavan Rengasayee, Robert G Gordie, Joseph W Baker, William S Arnold, Soufian T AlMahameed, Steven Poelzing

Poster # 35
“A Multifaceted Research Engagement Program Improved General Surgery Residents’ Academic Productivity”
William C Frankel, Bradford G Scott, Nader N Massarweh, Eric J Silberfein, Qianzi Zhang, Todd K Rosengart, Scott A LeMaire, Barbara W Trautner

Poster # 36
“Risk Factors for Conjugated Hyperbilirubinemia in Infants with Congenital Diaphragmatic Hernia”
Chioma Ikedionwu, Candace Style, Mariatu Verla, Timothy Lee, Sundeep Keswani, Caraciolo Fernandes, Adam Vogel, Oluyinka O Olutoye

Poster # 37
“Revisiting Bilateral Congenital Diaphragmatic Hernia: Outcomes From a Single Tertiary Fetal Center”
Hamsini Sriraman, Mariatu A Verla, Candace C Style, Amy R Mehollin-Ray, Caraciolo J Fernandes, Adam M Vogel, Timothy C Lee, Sundeep G Keswani, Oluyinka O Olutoye
Poster # 39
“Eosinophilic Esophagitis with and Without Airway Involvement—A Comparative Analysis”
Varun Bora, Deepak Mehta, Anthony Olive, Eric Chiou, Priya Raj

Poster # 40
“Survey Analysis of Quality of Life after Reconstructive Surgery in Pediatric Microtia Patients”
Hafsah A Hameed, Fatima Syed, Geran W Barton, Yi-Chun Carol Liu

Poster # 41
“Preoperative Evaluation, Clinicopathologic Factors, Management Strategies and Outcomes of Hepatocellular Carcinoma in a Safety-net Hospital”
Sommer Luu, Cary Hsu, Eric Silberfein

Poster # 42
“Outcomes in Pediatric Craniofacial Free Tissue Transfer”
Berkay Basagaoglu, Mohin Bhadkamkar, William Pederson, Edward Buchanan, Marco Maricevich, Tuan A Truong

Poster # 43
“Academic Representation of Women in the Southern Thoracic Surgical Association: Evidence for Positive Change”
Jacqueline K Olive, Niki Iranpour, Ourania A Preventza

Poster # 44
“Liver Transplant in Children with Autoimmune Hepatitis”
Isaiah G Roepe, Tamir Miloh, John A Goss

Poster # 45
“Chloroquine’s Effect on T-cell Proliferation”
Rachael L Muschalek, Matthew F Cusick

Poster # 46
“Access to Multidisciplinary Care for Patients with DiGeorge Syndrome: Identifying Breakdowns in the Screening Process”
Sarth Raj, Amjed Abu-Ghname, Aurelia T Perdanasari, Renata S Maricevich

Poster # 47
“Prevention of Surgical Complications Using Chimeric Anterolateral Thigh Free Flaps with Pedicled Muscular Flaps or Perforator-Based Island Pedicled Flaps”
Justin W Shi, Dhafer M Alsuwied, Andrew T Huang

Poster # 48
“Psychiatric Disorders and Short-Term Clinical Outcomes in Colorectal Cancer Among Veterans in a Single Institution”
Elaine Vo, Samir S Awad, Nader Massarweh, David S Lee, Christy I Chai
“Developing Artificial Intelligence and Deep Machine Learning to Predict Outcome Indicators for Liver Transplant Recipients”
Rowland Pettie, Stuart Corr, Abbas Rana

Laura Washburn, Thao N Galvan, Priyanka Moolchandani, Daniel O’Conor, Ruth Ackah, Sarah Koohmarie, Abbas Rana, John Goss

“Barriers to Minimally Invasive Surgery in Low Resource Setting—Single Site Assessment”
Sukriti Bansal, Jed G Nuchtern

“Arteriovenous Hemodialysis Access Quality Initiative Project”
Rocky C Browder, Joseph L Mills

“Sustained, Local Administration of IL-2 Reduces Recurrence of Pancreatic Cancer after Resection”
Lisa S Brubaker, George Van Buren, Cathy Yao

“Can Evidence-Based Treatment Protocols for Pediatric Distal Radius Torus Fractures Alter Provider Practice and Improve the Utilization of Healthcare Resources”
Kolby Buckner, Scott McKay, Ifeoma Inneh, Jaclyn Hill

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Gu Eon Kang, Bijan Najafi
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Ahmed Khouqeer, Brian Dawson, Eric Lewis, Theresa Sonka, Andrew Anderson, Ruchi Singh, Stuart Corr

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William Lightle, Gabriel Loor, Nader N Massarweh

“Can Amniotic Fluid Mesenchymal Stem Cells (AF-MSC) and Their Exosomes Prevent Necrotizing Enterocolitis (NEC) in a Piglet Model?”
Steven Mehl, Oluyinka O Olutoye

“Defining Failure to Rescue in Pediatric Surgery”
Jorge I Portuondo, Nader N Massarweh

“The Value of Failure-to-Rescue in Determining Hospital Quality for Pediatric Trauma”
Eric H Rosenfeld, Bindi Naik-Mathuria

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Christopher T Ryan, Todd K Rosengart

“Identifying the Factors Influencing Patient Allocation to Level I Trauma Facilities by EMT Personnel”
John Saydi, R Mario Vera

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Denny Scaria, Thao N Galvan, Lisa Haubert, Todd K Rosengart, Hop S Tran Cao, Holly C Shilstone, Jaye Chambers, Bradford G Scott

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Christopher C Taylor, Atif Iqbal

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Megan Thuy Vu, Uyên Thị Bích Nguyen, Ánh Linh Truong, Minh Truong Vu, Kim Thảo Ngô, Lê Phúc Hoàng, Công Lộc Dương, Ai-Xuan Holterman
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