Michael E. DeBakey Department of Surgery

Resident Research Day Symposium

Program of Events

Research...
It’s in our DNA

Wednesday, June 5-6, 2018
Denton A. Cooley Auditorium
We are pleased to welcome you to the Sixth 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. Rachel R. Kelz from the University of Pennsylvania as our keynote speaker presenting, “Defining Metrics for Use in the Assessment of Graduate Medical Education.”

We are extremely grateful to our panel of guest physician-scientists—Drs. Mark Biscone, Herbert DuPont, Thomas Giordano, Sylvia Hysong, Ralph Metcalfe, Martha Mims, Ana Maria Segura, and Heinrich Taegtmeyer—who have generously given their time to score the submitted scientific abstracts and serve as judges in today’s competitions. We also wish to acknowledge several members of our department’s research committee—Drs. Ghanashyam Acharya, Neal Barshes, Bryan Burt, Faisal Cheema, Johnny Chen, Stuart Corr, Steven Curley, William Fisher, Ravi Ghanta, Sundeep Keswani, Panagiotis Kougias, Nader Massarweh, Jeffrey Morgan, Bijan Najafi, Jed Nuchtern, Abbas Rana, Sohail Shah, James Suliburk, and S. Robert Todd—who participated in the scoring of submitted abstracts.

Finally, we sincerely thank Ronnetta Eaton, Scott Holmes and Amy Silva for their invaluable assistance in organizing this event.

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

Todd K Rosengart MD
Chairman

Scott A LeMaire MD
Vice Chair for Research

Changyi (Johnny) Chen MD PhD
Chief, Division of Surgical Research

Barbara Trautner MD PhD
Director of Clinical 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, Surgical Research, 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.

Michael E. DeBakey
Department of Surgery
One Baylor Plaza MS390
Houston, Texas 77030
713-798-8070
www.bcm.edu/surgery
Dr. Rachel R. Kelz is an associate professor of Surgery at the University of Pennsylvania. She is a board-certified general surgeon (2005, 2015) with an active endocrine surgery practice and formal training in health services research. She is associate program director of the General Surgery Residency Program, the director of the Center for Surgery and Health Economics in the Department of Surgery and the surgeon champion for the ACS NSQIP at the Hospital of the University of Pennsylvania. Dr. Kelz has received the Gordon P. Buzby Award for Leadership and the Mentorship Award from the Department of Surgery. She was awarded the Christian R. and the Mary F. Lindback Award for distinguished teaching from the Provost’s office at the University. The Lindback is the most prominent educational award given by the University.

Dr. Kelz leads the Quality In-Training Initiative (QITI) of the American College of Surgeons National Surgical Improvement Program. The QITI is a national collaborative of teaching hospitals designed to integrate outcomes and quality improvement into surgical education. Dr. Kelz has focused her research on the improvement of surgical outcomes through the use of innovative investigation and the development of novel education techniques. She has received private and public grant support for her research and has authored numerous chapters and more than 140 peer-reviewed manuscripts. She is currently funded by the National Institutes on Aging to use patient outcomes to inform medical education.

Dr. Kelz received a BS in Mathematics from Union College in Schenectady, NY, her MD from Yale University in New Haven, CT, an MS in Clinical Epidemiology and Biostatistics from the University of Pennsylvania and is currently enrolled in the Wharton Executive MBA Program at the University of Pennsylvania (anticipated WG18).

DISCLAIMER: The views expressed during the presentation are her own and do not represent those of the NIH.
Poster Session
Tuesday, June 5
4:00 – 6:00 pm

Posters of Distinction
Resident and Fellow Poster Competition

Poster # 1
“Central Role of Smooth Muscle Cell Specific YAP in Inducing Aortic Adaptive Response to Hemodynamic Stress and Maintaining Aortic Homeostasis”
Chen Zhang, Jiao Guo, Pingping Ren, Wei Luo, Yidan Wang, Lin Zhang, Chris Guardado, Joseph S Coselli, Scott A LeMaire, Huying Shen

Poster # 2
“Significant Decrease In HgA1c Levels In Diabetics After Continuous-Flow Left Ventricular Assist Device Implantation”
Adriana Santiago, Harveen K Lamba, L Hart, M Nguyen, Ahmed Alnajar, A Nair, J George, Z Taimeh, S Oberton, L Simpson, R Delgado, L Sampaio, Andrew Civitello, Todd K Rosengart, O H Frazier, Faisal H Cheema, Jeffrey A Morgan

Poster # 3
“Characterizing Outcomes after Repair of Complete Atrioventricular Septal Defects: An All-Inclusive Experience”
Rodrigo Zea-Vera, Martin A. Chacon-Portillo, Huirong Zhu, William B. Kyle, Iki Adachi, Jeffrey S Heinle, Charles D Fraser Jr, Carlos M Mery

Poster # 4
“The Effects of Timing of Ankle Blocks in Forefoot, Midfoot, or Hindfoot Reconstruction with the Use of an Ankle Tourniquet”
James Gwosdz, Lattisha Bilbrew, Daniel Jupiter, Vinod Panchbhavi

Poster # 5
“Mesothelin Regulates PD-L1 Expression in Pancreatic Ductal Adenocarcinoma (PDAC) Through NF-kappa B-A20 Pathway”
Dongliang Liu, Ethan Poteet, Zhengdong Liang, Phoebe Lewis, Zhiyin Yu, Changyi Chen

Poster # 6
“Atypical Ductal Hyperplasia and Rate of Upgrade to Carcinoma on Excision at a Safety Net Hospital”
Elaine Vo, Nestor Arita, Tamara Ortiz-Perez, Samir S Awad, Cary Hsu, Eric J Silberfein
Clinical and Research Staff Poster Competition

Poster # 7
“Novel Patient-Derived Models of Hepatoblastoma and Neuroblastoma”

Aryana M Ibarra, Roma H Patel, Sarah E Woodfield, Angela Major, Ketan Ghaghada, Stephen F Sarabia, Zhenghu Chen, Dolores Lopez-Terrada, Sanjeev A Vasudevan

Poster # 8
“Footwear Intervention to Manage Neuropathy in Patients with Diabetes: The Effect of Daily Plantar Mechanical Stimulation using an Innovative Micro-Mobile Compression Insole”

Nimrah F Saleem, Brian Lepow, Mohsen Zahiri, Bijan Najafi

Poster # 9
“Ciprofloxacin Increases Susceptibility to Aortic Dissection and Rupture in Mice”

Lin Zhang, Wei Luo, Pingping Ren, Alon Azares, Yidan Wang, Chen Zhang, Joseph S Coselli, Scott A Lemaire

Poster # 10
“Cleft Care Packages and the Impact on Postoperative Care Following a Primary Cleft Lip Repair”

Michelle G Roy, Lesley A Davies, Diana E Guillen, Jeromie D Sequitin, Jessica S Tung, Lindsey E White

Poster # 11
“Early Results of a Pilot Preoperative Nutritional Quality Improvement Program among Veterans with Digestive Tract Malignancies”

Lucia Hisse, Ashley B Johnson, Julian Martinez, Nader N Massarweh, Christy Y Chai, Samir S Awad, Hop S Tran Cao

Poster # 12
“A Pilot Study of Midlevel Postoperative Phone Call and Patient Satisfaction with Health Care Provider”

Holly L Clayton, Kathryn King, Chanda Sou
Medical Student Poster Competition

Poster # 13
“Cold Ischemia Time is an Important Risk Factor for Post-Liver Transplant Prolonged Length of Stay”
Evelyn T Pan, Dor Yoeli, N’Thao N Galvan, Michael L Kueht, Ronald T Cotton, Christine A O’Mahony, John A Goss, Abbas Rana

Poster # 14
“Rejection In Heart Transplant Patients Is Correlated With HLA Epitope Matching And Not With LVAD-Bridging”
Rachael L Muschalek, Matthew F Cusick, Brendan Chou, Felix Rubio, R H Kerman, Peter J Jindra, Abbas Rana, Q Zhang, Gabriel Loor, Andrew Civitello, Jeffrey A Morgan

Poster # 15
“Patients at Risk for Aortic Rupture are Often Exposed to Fluoroquinolones During Hospitalization”
William C Frankel, Barbara W Trautner, Andrew Spiegelman, Larissa Grigoryan, Scott A LeMaire

Poster # 16
“Patient Reported Outcomes as a Basis for Optimization of Pain Medication after Emergency Surgery”
Priyanka Moolchandani, Disha Kumar, Sarah McGriff, Marcus Hoffman, Millard A Davis, Elizabeth Alore, Jeremy Ward, Stephanie Gordy, James W Suliburk

Poster # 17
“Gamification for Improving Balance in Cancer Survivors Suffering from Chemotherapy Induced Peripheral Neuropathy: A Pilot Randomized Controlled Trial Study”
Kevin M Chen, Mohsen Zahiri, He Zhou, Sarvari Yellapragada, Biruh Workeneh, Bijan Najafi

Poster # 18
“Incidental Appendectomy During Surgical Intussusception Reduction”
Emile I Gleeson, Eric H Rosenfeld, Derek S Wakeman
Our comprehensive clinical trial management services, provided by the dedicated research support team housed in our department, allow us to offer you, as our research partner, an efficient, cost-effective, and high-fidelity way of performing clinical trials under a single IRB platform.

Team
Clinical trial coordinators, regulatory experts, grants and contract managers, research nurses, a biostatistician, database experts, a medical editor, and a medical illustrator are available to assist with performing clinical trials and preparing the results for presentation.

Clinical Research Support
Our pool of research coordinators can help with clinical trials by working with a research partner to convey proposals all the way from IRB submission to enrollment of the final subject at one or all Baylor College of Medicine’s 4 major clinical sites. Our team includes research nurses, a physician assistant, and five trials management research assistants who are available to support clinical studies. These individuals are skilled at IRB submission, informed consent, clinical monitoring, completing case reports, regulatory compliance, and final report submission.

Budget Planning
Our budget specialists provide support with IRB preparation and help facilitate the completion of the trial.

Clinical Sites
Baylor College of Medicine currently has four potential sites for clinical studies, covered under one IRB: the Michael E. DeBakey Veterans Affairs Medical Center, Ben Taub Hospital, Texas Children’s Hospital, and the Baylor St. Luke’s Medical Center. Our coordinators are credentialed to enroll subjects at all these sites.

Our experienced research core team can be a resource to you in getting your products tested. Consider the Michael E. DeBakey Department of Surgery at Baylor College of Medicine as a potential partner in your next trial.

Services
- IRB templates/examples
- Advice on required human subjects training and research regulations
- Statistical support
- Literature search
- Abstract/manuscript editing
- Preparation of figures, tables, and medical illustrations

Contact Us
To find out more:
Email: surgicalresearch@bcm.edu
Visit our web site at:
bcm.edu/departments/surgery/research/core
Symposium
Tuesday, June 6
7:00 am – 12:00 pm

7:00 – 7:10 am Welcome
Dr. Todd Rosengart

7:10 – 7:20 Opening Remarks
Dr. Adam Kuspa
Senior Vice President & Dean of Research
Interim Dean, Graduate School of Biomedical Sciences
Gay Nord
President, CHI St. Luke’s Health/Baylor St. Luke’s Medical Center

Dr. Laura Petersen
Center Director, Center for Innovations in Quality, Effectiveness and Safety

7:20 – 8:15 Keynote Address
“Defining Metrics for Use in the Assessment of Graduate Medical Education”
Dr. Rachel Kelz

8:15 – 9:20 Quick Shot Scientific Presentation Competition
(3 min + 3 min questions)
Moderators: Drs. Ronald Cotton and Michele Loor

“Parathyroidectomy is Underutilized in the Treatment of Primary Hyperparathyroidism in Veterans”
Elizabeth A Alore, James W Suliburk, David J Ramsey, Courtney J Balentine, Konstantinos I Makris

He Zhou, Nishat Kulkarni, Fadwa Al-Ali, He Zhou, Abdullah Hamad, Rania Ibrahim, Talal Talal, Bijan Najafi

“Zone Zero Hybrid Arch Exclusion Versus Open Total Arch Replacement”
Caleb J Euhus, Ourania Preventza, Corrinne Tan, Vicente Orozco, Joseph S Coselli

“Improved, Shorter Latency Carcinogen-Induced Hepatocellular Carcinoma Model in Pigs”
Jason Ho, Matthew Ware, Justin Law, Aaditya Nagaraj, Shilpa Jain, Jesse Rios, Reynaldo Calderon, Barry Toombs, Andrew Anderson, Collin Bray, Steven Curley, Stuart Corr

“Hospital Minimally Invasive Surgery Utilization for Gastrointestinal Cancer”
Meredith C Mason, Hop S Tran Cao, Samir S Awad, Farhood Farjah, George J Chang, Nader N Massarweh
“p63 Silencing Induces Reprogramming of Cardiac Fibroblasts into Cardiomyocyte-Like Cells”

Vivekkumar Patel, Vivek P Singh, Pratap Pinnamaneni, Deepthi Sanagasetti, Jacqueline Olive, Megumi Mathison, Austin Cooney, Elsa R Flores, Ronald G Crystal, Jianchang Yang

“Del Nido Cardioplegia in Adult Coronary Surgery: A Propensity Based Analysis of 927 Patients”

Alexander Schutz, Kimberly Bertapelle, Nicholas Beecher, William Long, Wei Pan, Michael Arcaro, David Ott, Ravi Ghanta, Ernesto Jimenez, Gabriel Loor

“Poor Outcomes on the Waiting List for Pediatric Lung Retransplant Patients Listed in Low Volume Centers”

Brandi Braud Scully, Jeffrey S Heinle, Michael L Kueht, E Dean McKenzie, George B Mallory, Ernestina Melicoff, Abbas Rana

“Targeting MDM4 in Neuroblastoma to Reactivate p53 Signaling”

Zhenghu Chen, Sarah E Woodfield, Roma H Patel, Aryana M Ibarra, Sanjeev A Vasudevan

“Altered Shear Forces Precipitate Fibrotic Remodeling in Discrete Subaortic Stenosis”

Emily H Steen, Monica Fahrenholtz, Marci Kang, Lalita Wadhwa, K. Jane Grande-Allen, Sundeep G Keswani

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

9:40 – 10:25 Scientific Presentations – Clinical Research

(5 min + 5 min questions)

Moderators: Drs. Juliet Holder-Haynes and Sohail Shah

“Neutrophil to Lymphocyte Ratio as a Predictor of Mortality After Continuous Flow Left Ventricular Assist Device Implantation”

Harveen Lamba, Adriana Santiago, Faisal Cheema, Alyssa Salibury, Luiz Sampaio, Subhasis Chatterjee, Reynolds Delgado, Ziad Taimeh, Oberton Selby, Joggy George, Ajit Nair, Andrew Civitello, Gabriel Loor, OH Frazier, Jeffrey Morgan

Invited discussant: Dr. Ravi Ghanta

“Nodal Downstaging for Localized Pancreatic Cancer with Neoadjuvant Therapy – How to Get There and Why It Matters”

Jorge I Portuondo, Nader N Massarweh, Christy Chai, Qianzi Zhang

Invited discussant: Dr. George Van Buren, II

“Addressing Postoperative Wound Complications following Lower Extremity Revascularization: A Propensity-Adjusted Analysis”

Nader Zamani, Sherene E Sharath, Elaine Vo, Samir S Awad, Panos Kougias, Neal R Barshes

Invited discussant: Dr. Jayer Chung

“Understaging of Clinical Stage I Pancreatic Cancer and the Impact on Multimodal Treatment”

Katherine Baugh, William E Fisher

Invited discussant: Dr. Christy Chai
10:25 – 11:10 Scientific Presentations – Basic Science
(5 min + 5 min questions)
Moderators: Drs. Bryan Burt and Sanjeev Vasudevan

“Mechanosensitive Lymphocytes Potentiate Wound Repair by Regulating Inflammation and Extracellular Matrix”
Xinyi Wang, Emily Steen, Alexander Blum, Hui Li, Swathi Balaji, Paul Bollyky, Sundeep Keswani
Invited discussant: Dr. Brian Lepow

“Targeting Necroptosis to Prevent the Development of Sporadic Aortic Aneurysm and Dissection in Mice”
Pingping Ren, Wei Luo, Yidan Wang, Chen Zhang, Jiao Guo, Lin Zhang, Joseph S Coselli, Ying H Shen
Invited discussant: Dr. Changyi (Johnny) Chen

“Allogeneic Antibody Therapy for Malignant Mesothelioma”
Hee-Jin Jang, Hyun-Sung Lee, Yanlan Dong, David J Sugarbaker, Burt M Bryan
Invited discussant: Dr. Carry Hsu

“Increase in Nitric Oxide Formation and Near-infrared Spectroscopy Values, while NEC Incidence decreases with Arginine and Citrulline Supplementation in a Premature Piglet Model”
Patricio E Lau, Stephanie Cruz, Jason L Robinson, Candace C Style, Barbara Stoll, Ling Yu, Douglas G Burrin
Invited discussant: Dr. Swathi Balaji

11:10 – 11:45 Student Quick Shot Presentations
(3 min + 3 min questions)
Moderators: Drs. Stacey Carter and Chad Wilson

“Acute Type I Aortic Dissection: Propensity-Score Analysis for Patients Who Underwent Traditional Versus Hybrid Procedure With Antegrade Endovascular Stent”
Jacqueline K. Olive, Vicente Orozco-Sevilla, Matt D Price, Hiruni S. Amarasekara, Benjamin Y Cheong, Kiki Simpson, Kim I de la Cruz, Scott A LeMaire, Joseph S Coselli, Ourania Preventza

“Are Liver Grafts from Smokers Safe? An Analysis of the UNOS Database”
Laura Washburn, Dor Yoeli, Michael L Kueht, Thao N Galvan, Ronald T Cotton, Abbas Rana, Christine O’Mahony, John A Goss

“Effects of Continuous Flow Left Ventricular Assist Devices on Long-Term Kidney Function”
Andre C Critsinelis, Harveen K Lamba, N Volkovicher, C Kurihara, M Kawabori, T Sugiura, Adriana Santiago, Andrew Civitello, R Delgado, L Simpson, S Oberton, A Nair, J George, Z Taimeh, S Navaneethan, C Walther, Todd K Rosengart, OH Frazier, Faisal H Cheema, Jeffrey A Morgan

“The Influence of Healthcare Resource Availability and Socioeconomic Factors on Amputation Rates in Texas Counties”
Jessica Cao, Sherene E Sharath, Nader Zamani

“Potential Impact of ’Take the Volume Pledge’ on Access and Outcomes for Gastrointestinal Cancer Surgery”
Ryan C Jacobs, Shawn Groth, Farhood Farjah, Mark A Wilson, Laura A Petersen, Nader N Massarweh

11:45 – 12:00 Awards

@BCM_Surgery | #researchday | www.bcm.edu/surgery
Past Awardees

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

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 Scientific 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

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 - 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

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
Scientific Abstracts

Poster # 19
“Wearable Sensor and the Assessment of Frailty among Vulnerable Older Adults: An Observational Cohort Study”

Mona Amirmazaheri, Javad Razjouyan, Aanand D Naik, Molly J Horstman, Mark E Kunik, He Zhou, Amir Sharafkhaneh, Bijan Najafi

Poster # 20
“Inflammasome Inhibitor MCC950 Prevents the Development of Sporadic Thoracic and Abdominal Aortic Aneurysms and Dissections in Mice“

Richard Appel, Pingping Ren, Lin Zhang, Wei Luo, Chen Zhang, Yidan Wang, Jiao Guo, Avril A Robertson, Joseph S Coselli, Matthew A Cooper, Ying H Shen, Scott A LeMaire

Poster # 21
“Specialty and Non-Specialty Provider Collaborative to Reduce Major Amputations in an Indigent Population”

Vamsi K Aribindi, Edward Poythress, Samual Todd, Jayer Chung, Miguel Montero-Baker, Joseph L Mills

Poster # 22
“Trends in Utilization of Multimodal Therapy for Gastric and Small Bowel Gastrointestinal Stromal Tumors”

Sukriti Bansal, Jorge I Portuondo, Hop S Tran Cao, Yvonne H Sada, Christina L Roland, Christy Chai

Poster # 23
“Sensor-derived Measurement of Physical Frailty Predicts Major Adverse Events in Older Patients Undergoing Lower Extremity Revascularization”

Lauren A Bokaie, Hector Elizondo, Walid Hassaballa, Hung Nguyen, Miguel Montero, Jayer Chung, Joseph Mills, Bijan Najafi

Poster # 24
“Comparison of Bare Metal, Covered, and Drug-Eluting Stents for the Treatment of Long-Segment Superficial Femoral Artery Disease”

Rocky C. Browder, Nader Zamani, Sherene E. Sharath, Jonathan D. Braun, Neal R. Barshes, Panos Kougias, Houssam Younes

Poster # 25
“Lymph Node Harvest and Survival in Gastric Cancer: A Single Institution Experience”

Lisa Brubaker, Cary Hsu, Colin Rog

Poster # 26
“Outcomes After Peritoneal Dialysis Catheter Placement”

Jennifer L Carpenter, Sarah C Fallon, Paul K Minifie, Darrell L Cass, Jed G Nuchtern
Poster # 27
“The Role of Mock Oral Examinations In Cardiothoracic Surgery Training: Does Practice Make Perfect?”
Erin Corsini, Ara A Vaporciyan, Tom C Nguyen

Poster # 28
“A High Ratio of Plasma:RBC Improves Survival in Massively Transfused Injured Children”
Megan E Cunningham, Eric H Rosenfeld, Bindi J Naik-Mathuria, Robert T Russell, Adam M Vogel

Poster # 29
“Endovascular vs. Open Surgery Postoperative Outcomes in Patients With Chronic Limb Threatening Ischemia Undergoing Lower Extremity Revascularization”
Hector Elizondo, Lauren Bokaie, Walid Hassaballa, Hung Nguyen, Miguel Montero, Jayer Chung, Joseph Mills, Bijan Najafi

Poster # 30
“Exergame: A Game-like Exercise to Improve Motor Functions and Physical Activities in Patients with Diabetes Undergoing Hemodialysis”
Ana Enriquez, Fadwa Al-Ali, He Zhou, Abdullah Hamad, Rania Ibrahim, Talal Talal, Bijan Najafi

Poster # 31
“A Prospective Pilot Trial of Postoperative Telemedicine Visits to a Patient’s Home after Routine Pediatric Surgical Procedures”
Celia D Flores, Annalyn S DeMello, Larry H Hollier, Edward Reece, David E Wesson, Charles D Fraser, Jed G Nuchtern

Poster # 32
“Objectively Assessing Fatigue Using Frailty Meter Among Cancer Survivors”
Manuel Gardea, Mohsen Zahiri, Biruh Workeneh, Sarvari Yellapragada, Bijan Najafi

Poster # 33
“Arteriovenous Fistula Maturation Rate is Not Affected by Ipsilateral Tunneled Dialysis Catheter”
Jerry Kim, Joseph Mills, Jonathan Braun, Neal Barshes, Panos Kougias, Houssam Younes

Poster # 34
“Activation of the Cytosolic DNA Sensor STING Signaling Contributes to Aortic Aneurysm, Dissection and Rupture in Mice”
Wei Luo, Yidan Wang, Lin Zhang, Pingping Ren, Chris Guardado, Chen Zhang, Jiao Guo, Joseph S Coselli, Scott A LeMaire, Huying Shen

Poster # 35
“Effect of Pre-Storm Risk Mitigation Protocols on LVAD Patient Outcomes Following Hurricane Harvey”
Carlos R Manrique, Faisal H Cheema, M Whitehead, Harveen K Lamba, Anju Bhardwaj, A Nair, L Simpson, Z A Taimeh, J George, S Oberton, A Butkevich, Todd K Rosengart, O H Frazier, Andrew Civitello, R Delgado, Jeffrey A Morgan

Poster # 36
“Impact of Previous Percutaneous Coronary Intervention on Coronary Artery Bypass Grafting (CABG) Outcomes in a U.S. Military Veteran Population”
Juan E Marcano, Shuab Omer, Ernesto Jimenez, Lorraine Cornwell, Orania Preventza, Kim de la Cruz, Todd Rosengart, Joseph S Coselli
Poster # 37
“Using the Society for Vascular Surgery (SVS) Wound, Ischemia, and Foot Infection (WIFI) Classification as a Tool to Identify Patients Most Likely to Benefit from Revascularization”
Jessica M Mayor, Jayer Chung, Qianzi Zhang, Miguel Montero-Baker

Poster # 38
“Oxygenated Wound Dressing Promotes Peripheral Circulation in Surgically Closed Wound”
Anmol Momin, Hung Nguyen, Brian Lepow, Jeffrey Ross, Miguel Montero, Jayer Chung, Joseph Mills, Bijan Najafi

Poster # 39
“Dual Task Frailty Index is Correlated to Cognitive Performance in Patients Undergoing Low Extremity Revascularization”
Hung Nguyen, Hector Elizondo, Lauren Bokaie, Walid Hassaballa, Miguel Montero, Jayer Chung, Joseph Mills, Bijan Najafi

Poster # 40
“Venous Arterialization for Patients with Lower Extremity Critical Limb Ischemia and Non Reconstructable Arterial Disease”
Zachary S Pallister, Joseph L Mills

Poster # 41
“Hemoglobin Values and Transfusions in Pediatric Orthopaedic Surgery”
Amad A Qadeer, Theodora S Browne, Lee S Haruno

Poster # 42
“Pelvic Exenteration for Locally Advanced Rectal Cancer in a Safety Net Hospital”
Eric Rachlin, Cary Hsu, Amos Zimmerman

Poster # 43
“Using a Single Wearable Sensor to Identify Cognitive Frailty in Older Adults in the Community”
Javad Razjouyan, Molly J Horstman, Mark E Kunik, Amir Sharafkhaneh, Aanand D Naik, Bijan Najafi

Poster # 44
“Comparison of MRCP and CT for Diagnostic Evaluation of Pancreatic Duct Injury in Children”
Eric Rosenfeld, Adam Vogel, Robert Russell, Denise Klinkner, Barbara Gaines, Anthony Stallion, Shawn St. Peter, David Juang, Rajan Thakkar, Brandon Behrens, Mubeen Jafri, Randall Burd, Marianne Beaudin, Richard Falcone, Bindi Naik-Mathuria

Poster # 45
“Understanding the Effects of Modifiable and Non-Modifiable Factors in Patients Who Suffer from Chemotherapy Induced Cognitive Impairments or “Chemo-brain”
Saba P Sharafkhaneh, Javad Razjouyan, Mohsen Zahiri, Aanand D Naik, Sarvari V. Yellapragada, Biruh Workeneh, Bijan Najafi

Poster # 46
“Evaluating the Cost-Effectiveness of Procedural Sedation in Plastic Surgery Cases in the Pediatric Emergency Department Setting”
Aspinder Singh, Nikhil A Agarwal, Dmitry Zavlin, Amy S Xue, Romina Deldar, Corrie E Chumpitazi, Jeffrey D Friedman

Poster # 47
“Early vs Late Postnatal Resection in Congenital Lung Malformations”
Candace C Style, Darrell L Cass, Mariatu A Verla, Stephanie M Cruz, Patricio E. Lau, Timothy C Lee, Caraciolo J Fernandes, Sundeep G Keswani, Oluyinka O Oluyinka
Poster # 48
“Footwear Intervention to Reduce Sedentary Behavior in Older Adults With High Concerns for Falls – 1-Year Prospective Randomized Controlled Trial”
Shannon Varghese, Changhong Wang, Brian Lepow, Hadi Rahemi, Bijan Najafi

Poster # 49
“Game-Based Non-Weight Bearing Exercise to Improve Postural Balance in Patients with Diabetes Underjoining Hemodialysis”
Varsha Varghese, Fadwa Al-Ali, He Zhou, Abdullah Hamad, Rania Ibrahim, Talal Talal, Bijan Najafi

Poster # 50
“Prenatal Imaging Factors Associated with Gastrointestinal Morbidity in Congenital Diaphragmatic Hernia”

Poster # 51
“Long-Term Impact of Pancreatectomy for Cystic Neoplasms of the Pancreas”
Nicole Villafane, Kevin P Shah, George Van Buren, Amy McElhany, Eric Silverfein, Nader N Massarweh, Cary Hsu, Jose E Mendez, William Fisher

Poster # 52
“Non-Operative Management of Pink-Pulseless Hands After Supracondylar Humerus Fractures in Children is Usually Safe”
Megan T Vu, Jonathan Hyak, Eric H Rosenfeld, Bindi Naik-Mathuria, Scott B Rosenfeld, Jayer Chung

Poster # 53
“Long-term benefit of custom-made ankle-foot orthoses (AFO) to improve gait and balance in older adults –One Year Prospective Randomized Controlled Trial”
Changhong Wang, He Zhou, Hadi Rahemi, Bijan Najafi

Poster # 54
“Cytosolic DNA Sensor STING Mediates Macrophage Activation Induced by Smooth Muscle Cell Damage During Aortic Aneurysm and Dissection Development”
Yidan Wang, Wei Luo, Lin Zhang, Pingping Ren, Jiao Guo, Chen Zhang, Chris Guardado, Joseph S. Coselli, Scott A. LeMaire, Ying H. Shen

Poster # 55
“Aortic Root Replacement Surgery in Patients with Coronary Artery Disease”
Richard S Whitlock, Vicente Orozco, Hiruni Amarasekara, Matt Price, Susan Y Green, Qianzi Zhang, Scott A LeMaire, Joseph S Coselli

Poster # 56
“End Stage Renal Disease: Paving the Road To Permanent Dialysis Access Using a Nurse Practitioner Driven Clinic”
Charrika C. Williams, Miguel Montero-Baker, Jayer Chung, Joseph L. Mills

Poster # 57
“Profiling and Targeting Vascular Invasion in Hepatoblastoma”
Poster # 58
“Redo Sternotomy in 235 Patients Who Underwent Aortic Root Replacement”
Darrell Wu, Susan Y Green, David Price, Hiruni S Amarasekara, Qianzi Zhang, Kim I de la Cruz, Ourania Preventza, Scott A LeMaire, Joseph S Coselli

Poster # 59
“Effectiveness of a Progressive Game-Based Therapy to Improve Sensory Skills in Cancer Survivors Suffering from CIPN”
Mohsen Zahiri, He Zhou, Sarvari V Yellapragada, Biruh Workeneh, Michael Schwenk, Bijan Najafi

Poster # 60
“Aging Caused Deterioration in Motor-Function Can be Magnified by Diabetic Kidney Disease”
He Zhou, Fadwa Al-Ali, Abdullah Hamad, Rania Ibrahim, Talal Talal, Bijan Najafi

Poster # 61
“Timing of RVAD Insertion and the Associated Outcomes in CF-LVAD Patients”
Jacob R Conroy, Y Lou, Faisal H Cheema, Harveen K Lamba, P Li, Andrew Civitello, Todd K Rosengart, OH Frazier, A Nair, Jeffrey A Morgan

Poster # 62
“Delayed Sternal Closure in Heart Transplant Patients Bridged with Continuous Flow Left Ventricular Assist Devices”
Ryan T Conyer, Harveen Lamba, George V Letsou

Poster # 63
“Impact of Advanced Hepatic Fibrosis and Cirrhosis on Outcomes in Patients Undergoing Continuous-Flow LVAD Implantation”
Mary Kim, Harveen K Lamba, Ahmed Alnajar, Faisal H Cheema, Andrew B Civitello, Reynolds Delgado, Leo Simpson, Ajith P Nair, Todd K Rosengart, Jeffrey A Morgan

Poster # 64
“Immunogenomic Determinants of Response to PD-1 Blockade In Malignant Pleural Mesothelioma”
Eric M Lo, Hyun-Sung Lee, Cynthia Y Truong, Hee-Jin Jang, Shawn S Groth, David J Sugarbaker, Bryan Burt

Poster # 65
“Utilization of a Comprehensive Inpatient Nutritional Screening Program to Detect Malnutrition Among 1,323 Veterans Admitted to Surgical Services at a Major Quaternary Care Center”
Julian Martinez, Lauren Probstfeld, Ashley B Johnson, Nader N Massarweh, Christy Y Chai, Jennifer Taylor, Aanand Naik, Samir S Awad, Hop S Tran Cao

Poster # 66
“Do Ventriculoperitoneal Shunts Increase Complications after Laparoscopic Gastrostomy in Children?”
Kirea J Mazzolini
Poster # 67
“Recent Trends in Minimally Invasive Approaches to the Inguinal Hernia Repair”

Sergio M Navarro, Samir S Awad, Natasha S Becker, Lauren Gillory, David S Lee, Konstantinos Makris, Louisa W Chiu, Nader N Massarweh, Hop S Tran Cao

Poster # 68
“Readmissions after Open and Endovascular Repair of Type B Aortic Dissection”

Umang Parikh, Rohan Shah, Qianzi Zhang, Tejasvi Dasari, Brendan Chou, Anjali Raghuram, Ankur Bakshi

Poster # 69
“Should a History of Illicit Drug Use be an Absolute Contraindication for LVAD Implantation?”

Felixnando Rubio, Harveen K Lamba, Gregory Long, Alexander Farr, Joggy George, S Francis-Vizena, Ajith Nair, Luiz Sampaio, Selby Oberton, Ziad Taimeh, Andrew Civitello, R Delgado, George V Letsou, Ravi K Ghanta, S Chatterjee, Abbas Rana, Todd K Rosengart, Jeffrey A Morgan, Faisal H Cheema

Poster # 70
“The Predictive Power of MELD is Decreasing in the Era of Older, Sicker Patients”

Katherine Utech, Elizabeth L Godfrey, Jennifer C Lai, Tamir Miloh, Nhu Thao Galvan, Ronald T Cotton, Christine O’Mahony, John Vierling, Norman Sussman, Abbas Rana

Poster # 71
“Hospital Readmissions For Patients With Left Ventricular Assist Devices (LVAD)”

Bibin T Varghese, H Rasool, Harveen K Lamba, Z Taimeh, George Letsou, Gabriel Loor, Andrew Civitello, Todd K Rosengart, OH Frazier, Jeffrey A Morgan, Faisal H Cheema

Poster # 72
“Intraoperative Blood Loss During Pediatric Liver Transplantation: A Single Center Experience”

Joshua A Villarreal, Dor Yoeli, Jordan Kohler, Rohini R Sigireddi, Ruth L Ackah, Michael L Kueht, N Thao N Galvan, Ronald T Cotton, Abbas Rana, Christine A O’Mahony, John A Goss
“Ward Based Integrated Multidisciplinary Rounds”
Sarah A Allen, S. Rob Todd, M. Andrew Davis

“Management of Pneumomediastinum: Conservative Therapy versus Invasive Intervention”
Arsalan Amin

“To PAy or Not to PAy, that is the Question. Should Residents’ Salaries Equal that of Midlevel Providers?”
Alicia Lay

“Sharpening the Knife: Preparing American Surgical Residents for Humanitarian Deployment”
Rachel W Davis, Larry Hollier

“Pedicled Omental Flap Use in Hepatectomy: Postoperative Complication Reduction Strategy”
Michael A Long

“Prioritization of Non-Abdominal Injuries in the Face of IVC Trauma: Lessons Learned”
Tashinga Musonza, Ramyar Gilani, Ahmed Khouqeer, Michael Long

“Evaluating Physical Fitness as an Effective Tool to Reduce Resident Burnout”
Ndidi C Okeke

“Outcomes of Complex Aortic Surgery in the VA Hospital”
Kareem Ibrahim, Ernesto Jimenez, Lorraine Cornwell, Kim De La Cruz, Ourania Preventza, Joseph Coselli, Darrell Wu

“Pharmacomechanical vs Surgical Thrombectomy in Septic Thrombophlebitis: A Prospective Cohort Study”
George-Thomas M Pugh

“Does Providing Free Meals to Residents Pay Off?”
Barbara Lacy

“Penetrating versus Blunt Spinal Cord Trauma”
John P Saydi
“Enhancing, Standardizing and Encouraging Intraoperative Education”
Denny Scaria

“Perioperative Use of Polyurethane Foam Dressings in The Prevention of Pressure Ulcers in a Veteran Population”
Aaron Scott

“The Economics of Treating the Hepatitis C Endemic and it’s Long-Term Sequela in Egypt”
Younna A Sherif, Amr Youssry

“Colonoscopy Surveillance Intensity Prior and After Dysplasia Diagnoses in Inflammatory Bowel Disease”
Christopher C Taylor, Jason K Houvivekk

“Complications of Penetrating Liver Injuries”
Galina Toneva, S Rob Todd, James Suliburk

“Traumatic Biliary Injury: The Role for Early Endoscopic Retrograde Cholangiopancreatography (ERCP)”
Laura E Trujillo, Kirea Mazzolini, Gabrielle Fatora, Sara Larson

“Blunt vs. Penetrating Trauma: Is There a Resource Intensity Discrepancy?”
Matthew S Yanoff, Jamie Fitch, Paul Albini, S Robert Todd
The Pursuit of Excellence is Our Objective

To be internationally recognized as the premier department of surgery in innovating breakthrough improvements in the quality and efficiency of patient care, and for training the next generation of surgical scientists, educators and innovators as leaders of our field.

Michael E. DeBakey
Department of Surgery
One Baylor Plaza MS390
Houston, Texas 77030
713-798-8070