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and Surgeons*

Dear Faculty,

This certainly has been a very productive and busy spring, as you'll see by the long list of presentations, publications and honors below. I hope you are finding this newsletter helpful in fostering awareness within the department of what our colleagues are doing, as well as inspiring new efforts and collaborations. Thank you all for your contributions.

As a reminder, the PubMed links below should work for everyone. The journal-specific links will only work if you have a subscription to that journal or you are connected into the Columbia University library e-journal system.

Let's keep up the excellent work. Please be sure to email Paul Kurlansky (pk2245@columbia.edu) or myself (crs2@cumc.columbia.edu) with your confirmed publications, presentations, and grants as we will continue to send this newsletter monthly.

Warmly,
Craig Smith, MD

CONGRATULATIONS

Dr. Mathew Bacchetta on being inducted as a member of the American Association for Thoracic Surgery.

Dr. John Chabot on receiving the Practitioner of the Year Award from the Society of Practitioners of CUMC.

Dr. Joseph Costa on being invited to present to surgeons in Milan on performing high risk pneumonectomies followed by lung transplant.

Dr. Sheldon Feldman on becoming President Elect of the American Society of Breast Surgeons.

Dr. Mark Ginsberg for being selected for being selected for inclusion in the AATS' media outreach program due to the high impact nature of his presentation at the 95th

AATS Annual Meeting in Seattle, April 25-29, 2015, Safety, Efficacy, and Durability of Lung Volume Reduction Surgery: A 10-Year Experience.

Dr. Henry Spotnitz on receiving approval of his patent for his Coronary Sinus Cannula with Left Ventricle Lead and Pressure Tent.

Dr. Elizabeth Stephens and Dr. Hiroo Takayama on receiving a \$15,000 Multidisciplinary Pilot Research (CaMPR) Award for their project "Aortic Valve Structural, Compositional, and Mechanical Changes with Left Ventricle Assist Device (LVAD) Support".

Dr. Elizabeth Stephens on being invited as an editorial board member of the *Journal of Biomedical Engineering and Informatics*.

BREAST SURGERY

Presentations

Geha RC, Taback B, Bansil H, Feldman S. A Single Institution's Randomized Double Armed Prospective Study of Lumpectomy Margins with Adjunctive Use of the MarginProbe in Nonpalpable Breast Cancers American Society of breast surgeons meeting in Orlando. April 30, 2015.

Publications

Rohde CH, Taylor EM, Alonso A, Ascherman JA, Hardy KL, Pilla AA. Pulsed Electromagnetic Fields Reduce Postoperative Interleukin-1 β , Pain, and Inflammation: A Double-Blind, Placebo-Controlled Study in TRAM Flap Breast Reconstruction Patients. *Plast Reconstr Surg*. 2015 May;135(5):808e-17e.

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Munabi NC, Wu JK, Taylor EM, Ascherman JA, Pilla AA, Rohde CH. Abstract 49: PEMF Modulates Cytokines in the Wound Milieu to Reduce Post-Operative Inflammation: Application to Autologous Breast Reconstruction. *Plast Reconstr Surg*. 2015 May;135(5S Suppl):42.

[Click here for the abstract](#)

Chang MM, Fu R, Chen M, Rohde C. Abstract 39: A Qualitative Study of Breast Reconstruction Decision-Making Among Asians. *Plast Reconstr Surg*. 2015 May;135(5S Suppl):35.

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CARDIAC SURGERY

Presentations

Grau JB, Kuschner CE, Ferrari G, Romeo J, Shaw RE, Brizzio ME, Yallowitz J, Zapolanski A. Treating ascending aortic dissections: comprehensive care from the Emergency Department to surgery. Presented at the Academic Surgical Congress 10th Annual Meeting (2015). February 3-5 Las Vegas, USA.

Grau JG, Kuschner CE, Johnson CK, Ferrari G, Shaw RE, Brizzio M, Zapolanski A. The negative effects of perioperative blood transfusions may be mitigated when performing coronary artery bypass graft surgery off-pump. *The Journal of the American College of Cardiology* 2015 (abstract) 65(10); Suppl A: A513.

Shaw RE, Kuschner CE, Johnson CK, Ferrari G, Brizzio ME, Zapolanski A, Grau JB. Duke Activity Status Index is Sensitive to Non-Fatal Adverse Cardiac Events when Evaluating Patient Outcome at Late Follow-up. Accepted for presentation at the American Heart Association 2015 Quality of Care and Outcomes Research Scientific Session. April 29-May 1 Baltimore, USA.

Driesbaugh KH, Grau JB, Branchetti E, Gorman RC, Gorman JH, Levy RJ, Ferrari G. Serotonin And Transforming Growth Factor Beta Control Interstitial Cells And Leaflet Pathological Remodeling in Mitral Valve Disease Accepted for presentation at the AATS Mitral Conclave April 23-24 New York, NY, USA.

International Society for Heart and Lung Transplantation, Nice, France, April 15-18, 2015

- Topkara VK, Levin A, Mody K, Garan A, Ronquillo KO, Tiburcio M, Murphy JS, Paris G, Takeda K, Takayam H, Yuzefpolskayal M, Mancini D, Naka Y, Colombo PC, Jorde UP. Association of Warfarin Genotype With Thrombosis and Bleeding Events in ContinuousFlow Left Ventricular Assist Device (CF-LVAD) Patients.
- Law S, Oron A, Kemna M, Albers E, McMullan D, Chen J, Law Y. Comparison of Transplant Waitlist Outcomes for Pediatric Candidates Supported By Ventricular Assist Devices vs. Medical Therapy Alone.
- Fried J, Cagliostro B, Levin A, Wever-Pinzon O, Garan AR, Te-Frey R, Ronquillo KO, Takeda K, Takayama H, Yuzefpolskaya M, Mancini DM, Naka Y, Colombo PC, Jorde U, Uriel N, Topkara V. Driveline Infection Is Not Associated With Increased Risk of Thrombotic Events in CF-LVAD Patients.

Sorabella RA, Najjar M, Castillero E, Kantor A, Liu A, Topkara V, Colombo P, Farr M, Takayama H, Schulze PC, Mancini D, Naka Y, George I. Cardiac Donor Characteristics Predictive of One Year Post-Heart Transplant Mortality: Analysis of the UNOS Transplant Database.

- Pan S, Wever-Pinzon O, Rao S, Levin A, Garan A, Takeda K, Takayama H, Yuzefpolskaya M, Mancini D, Naka Y, Colombo PC, Topkara VK. Myocardial Recovery From Short- and Long-Term Cardiac Support Devices: Results From the UNOS Registry.
- Garan AR, Whang W, Topkara VK, Levine AP, Yuzefpolskaya M, Colombo PC, Mancini DM, Takeda K, Takayama H, Naka Y, Uriel N, Jorde UP. Location of Intractable Ventricular Arrhythmias Following Left Ventricular Assist Device Implantation.
- Wiley JZ, Gavalas M, Levin A, Breskin A, Topkara VK, Yuzefpolskaya M, Orlanes K, Torres MR, Tiburcio M, Ross K, Garan A, Wong K, Jorde UP, Mancini DM, Takeda K, Takayama H, Naka Y, Colombo PC. Stroke Subtype Impacts Outcomes and Transplant Eligibility in CF-LVADS.
- Levin A, Garan RA, Topkara VK, Takeda K, Takayama H, Mancini DM, Naka Y, Colombo PC, Yuzefpolskaya M. Favorable Outcomes in Dialysis Dependent Patients on LVAD BTT Support.
- Truby L, Hart S, Takeda K, Naka Y, Colombo PC, Yuzefpolskaya M, Garan A, Topkara VK, Mancini D, Takayama H. Management and Outcome of Left Ventricular Distention During Venoaerterial Extracorporeal Membrane Oxygenation Support.
- Li B, Truby L, Fujita K, Ikeda S, Fukuhara S, Vargas L, Hart S, Naka Y, Takayama H. Feasibility of Long Term Use of External Continuous Flow Ventricular Assist Device.
- Wever-Pinzon O, Farr M, Naka Y, Takayama H, George I, Colombo P, Mancini D, Schulze P. Effect of the 2006 U.S. Donor Heart Allocation Policy Change on Waitlist Complications and Post-Transplant Mortality Among Candidates Supported With Mechanical Circulatory Support.
- Wever-Pinzon O, Levin AP, Fried J, Garan AR, Takeda K, Takayama H, Yuzefpolskaya M, Mancini D, Naka Y, Colombo P, Topkara VK. Effect of Device Thrombosis and Malfunction on Clinical Outcomes of Patients Bridging With Continuous-Flow LVADs.
- Levin AP, Willey JZ, Fried JA, Levin CJ, Dionizovik M, Garan AR, Topkara V, Yuzefpolskaya M, Colombo PC, Takayama H, Naka Y, Uriel N, Jorde UP. Hemolysis, Device Thrombosis, and Risk of CVA in HM II Patients: Role of Watchful Waiting?
- Topkara VK, Godier-Furnemont A, Levin A, Garan A, Cagliostro B, Te-Frey R, Torres F, Takeda K, Takayama H, Yuzefpolskaya M, Jorde UP, Mancini D, Naka Y, Colombo PC. Use of Phosphodiesterase 5 Inhibitors in Continuous-Flow Left Ventricular Assist Device Patients With Pulmonary Hypertension: A Contemporary Analysis.
- Takeda K, Takayama H, Fukuhara S, Han J, Colombo PC, Yuzefpolskaya M,

Topkara VK, Mancini DM, Naka Y. Outcomes of Patients Complicated With Late Right Heart Failure During Continuous Left Ventricular Device Support: Should Patients Stay on Device or Be Transplanted?

- Han J, Takeda K, Takayama H, Kurlansky PA, Colombo PC, Yuzefpolskaya M, Fukuhara S, Turby LK, Topkara VK, Mancini DM, Naka Y. Durability and Clinical Impact of Tricuspid Valve Procedures in Patients Receiving Continuous-Flow Left Ventricular Assist Device.
- Gavalas M, Breskin A, Eisenberger AB, Yuzefpolskaya M, Topkara VK, Torres MR, Tiburcio M, Murphy JS, Cagliostro B, Te-Frey R, Ross K, Flanner M, Wong K, Garan RA, Mancini DM, Takeda K, Takayama H, Naka Y, Demmer RT, Colombo PC. Discriminatory Performance of Simple Urine Dipstick for Detection of Significant Hemolysis in CF-LVAD Patients.
- Givens RC, Akat KM, Briskin D, Brnjes DJ, Kennel PJ, Naka Y, Takayama H, George I, Mancini DM, Tuschl T, Schulze PC. Deep Sequencing Reveals Dynamics in Circulating miRNAs Following Heart Transplantation.
- Levin AP, Fried J, Wever-Pinzon O, Garan AR, Takeda K, Takayama H, Yuzefpolskaya M, Jorde UP, Mancini DM, Naka Y, Colombo PC, Topkara VK. Bridging to Transplant With Fully Implantable Biventricular Assist Devices vs. Total Artificial Heart Implantation in Patients With Advanced Biventricular Failure.
- Yang JA, Takeda K, Naka Y, Takayama H. Evolution of Status 1A Heart Transplant Candidates.
- Fukuhara S, Takeda K, Han J, Colombo PC, Kurlansky P, Mancini D, Yuzefpolskaya M, Topkara V, Takayama H, Naka Y. The Impact of Concomitant Mitral Repair in Patients Receiving Continuous-Flow Left Ventricular Assist Devices.
- Yuzefpolskaya M, Torres MR, Weinberg R, Breskin A, Garan RA, Topkara VK, Takeda K, Takayama H, Mancini DM, Naka Y, Jorde UP, Colombo PC, Bokhari S. Modulation of LV Loading and Arterial Pulsatility Affects PET/CT Coronary Flow Reserve in Continuous Flow LVAD Patients.
- Topkara VK, Levin A, Mody K, Garan A, Cagliostro B, Flannery MA, Te-Frey R, Torres F, Takeda K, Takayama H, Yuzefpolskaya M, Mancini DM, Naka Y, Colombo PC, Jorde UP. VKORC1 Genotype Predicts Warfarin Dosing and INR Kinetics in Patients With Continuous-Flow Left Ventricular Assist Devices (CF-LVADs).
- Truby L, Abadeer A, Fujita K, Schulze PC, Farr M, Yuzefpolskaya M, Colombo PC, Takea K, Mancini DM, Naka Y, Takayama H. MELD XI Successfully Predicts Thirty Day Mortality in Patients Who Received Centrimag VAD for Acute Decompensated Heart Failure.
- Fukuhara S, Truby L, Vargas L, Hart S, Mancini DM, Colombo PC, Topkara V, Yuzefpolskaya M, Takeda K, Naka Y, Takayama H. The Impact of Acute Kidney Injury in Patients With Postcardiotomy Cardiogenic Shock Requiring Mechanical Circulatory Support.
- Topkara VK, Godier-Furnemont-Godier A, Bax N, Fine B, Garan A,

- Yuzefpolskaya M, Takeda K, Takayama H, Naka Y, Mancini DM, Colombo PC, Jorde UP, Vunjak-Novakovic G. Inflammation Mediated Fibrosis Is Regulated Through Distinct Gene-Gene Co-Expression Networks in the Failing Human Myocardium Before and After Left Ventricular Assist Device Support.
- Abadeer AI, Truby L, Fujita K, Vargas L, Hart S, Yuzefpolskaya M, Colombo P, Takeda K, Mancini DM, Topkara V, Kurlansky P, Naka Y, Takayama H. High Mortality With Acute Kidney Injury After Mechanical Support for Cardiogenic Shock.
 - Nakagawa S, Blinderman C, Cagliostro B, Flannery M, Topkara VK, Takeda K, Takayama H, Naka Y, Colombo PC, Yuzefpolskaya M. Palliative Care Effectively Guides Transition to Inpatient Hospice, Home Hospice or Home Services for End-of-Life Care of LVAD Patients.
 - Han J, Takeda K, Takayama H, Kurlansky PA, Colombo PC, Yuzefpolskaya M, Fukuhara S, Truby LK, Topkara VK, Mancini DM, Naka Y. Hepatic Function After Long-Term Continuous-Flow Left Ventricular Assist Device Support.
 - Colombo PC, Orlanes K, Lanier G, Yuzefpolskaya M, Flanner M, Te-Frey R, Hayashi Y, Wong K, Ahmad MM, Mancini DM, Uriel N, Jorde UP, Topkara VK, Takeda K, Takayama H, Naka Y, Demmer T. Ability to Obtain Blood Pressure Readings By Standard Automated Blood Pressure Monitor Helps Interpreting the Relationship Between Doppler Blood Pressure to Systolic Blood Pressure and Mean Arterial Pressure.
 - Kennel PJ, Givens R, Brunjes D, Chen E, Castilero E, Takayama H, Naka Y, George I, Mancini DM, Schulze PC. Serum-Derived Exosomal Proteome Analysis of Patients With Heart Failure and After Heart Transplantation.
 - Biscotti M, Wever-Pinzon O, Yuzefpolskaya M, Takayama H, Naka Y, Rosenzweig EB, Bachetta M. Partial Pulmonary-Right Heart Oxygenator (PROxy) Support System: A Novel Strategy for Management of Severe Pulmonary Hypertension.

American Association for Thoracic Surgery, Seattle, April 25-29, 2015

- Blackstone EH, Szeto WY, Svensson LG, Rajeswaran J, Ehrlinger J, Suri RM, Smith CR, Mack MJ, Miller DC, McCarthy PM, Bavaria JE, Cohn LH, Corso PJ, Guyton RA, Thourani VH, Lytle BW, Williams MR, Webb JG, Kapadia S, Tuzcu EM, Cohen DJ, Schaff HV, Leon MB. Appropriate Patient Selection or Healthcare Rationing? Lessons from Surgical Aortic Valve Replacement in the PARTNER-I Trial.
- Wahlers T, Haverich A, Borger M, Shrestha M, Kocher A, Walther T, Roth M, Misfeld M, Mohr F, Kempfert J, Dohmen P, Schmitz C, Rahmanian P, Wiedemann D, Duhay F, Laufer G. Comparison of Procedural Outcomes and Early Safety by Surgical Approach after Isolated Rapid Deployment Aortic Valve Replacement.
- Fukuhara S, Takeda K, Han J, Vargas L, Boyangzi KL, Yuzefpolskaya M, Mancini DM, Colombo PC, Topkara V, Kurlansky PA, Takayama H, Naka Y. Concomitant Aortic Valve Repair in Patients Undergoing Continuous-flow Left

Ventricular Assist Device Placement: A 10-year Experience and Clinical Implications.

- Tsukashita M, Takayam H, Takeda K, Colombo PC, Topkara VK, Yuzefpolskaya M, Mancini DM, Naka Y. Severe Pulmonary Hypertension in Patients Undergoing Leftventricular Assist Device Insertion as Bridge to Transplant.
- Stephens EH, Tingo J, Najjar M, Yilmaz B, Levasseur S, Mosa RS, Chai P, Quaegebur J, Bacha E. Cardiac Function after Tetralogy of Fallot/Complete Atrioventricular Canal Repair.

Publications

Ardehali A, Esmailian F, Deng M, Soltesz E, Hsich E, Naka Y, Mancini D, Camacho M, Zucker M, Leprince P, Padera R, Kobashigawa J; PROCEED II trial investigators. Ex-vivo perfusion of donor hearts for human heart transplantation (PROCEED II): a prospective, open-label, multicentre, randomised non-inferiority trial. *Lancet*. 2015 Apr 14. pii: S0140-6736(15)60261-6. doi: 10.1016/S0140-6736(15)60261-6. [Epub ahead of print]

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Stephens EH, Hope TA, Kari FA, Escobar Kvitting JP, Liang DH, Herfkens RJ, Miller DC. Greater Asymmetric Wall Shear Stress in Sievers' Type 1/L-R Compared to 0/LAT Bicuspid Aortic Valves after Valve-Sparing Aortic Root Replacement *J Thorac Cardiovasc Surg*. Accepted April 7, 2015.

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Stephens EH, Ibrahimiyeh AN, Yerebakan H, Yilmaz B, Chelliah A, Levasseur S, Mosca RS, Chen JM, Chai P, Quaegebeur J, Bacha EA. Early Complete Atrioventricular Canal Repair Yields Outcomes Equivalent to Late Repair. *Ann Thorac Surg*. 2015 Apr 15. pii: S0003-4975(15)00210-6. doi: 10.1016/j.athoracsur.2015.01.063. [Epub ahead of print]

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Nguyen TC, Terwelp MD, Stephens EH, Odell D, Loor G, LaPar DJ, DeNino WF, Wei B, Aftab M, Macke RA, Nelson JS, Berfield K, Lazar J, Stein W, Youssef SJ, Tachantchaleishvili V, Residents' Perception of Two- vs. Three-year Cardiothoracic Training Programs (2013 and 2014 TSRA/TSDA In-training Exam Survey), *Annals of Thoracic Surgery*. Epub ahead of print April 8, 2015.

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Yuzefpolskaya M, Takayama H, Naka Y, Colombo PC, Kalesan B, Uriel N, Jorde UP. Correlation Between Home Inr and Core Lab Inr in Patients Supported with Continuous Flow Left Ventricular Assist Devices. *ASAIO J.* 2015 Apr 22. [Epub ahead of print]

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Levin AP, Uriel N, Takayama H, Mody KP, Ota T, Yuzefpolskaya M, Colombo PC, Garan AR, Dionizovik-Dimanovski M, Sladen RN, Naka Y, Jorde UP. Device exchange in HeartMate II recipients: long-term outcomes and risk of thrombosis recurrence. *ASAIO J.* 2015 Mar-Apr;61(2):144-9.

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Sklepkiwicz P, Shiomi T, Kaur R, Sun J, Kwon S, Mercer B, Bodine P, Schermuly RT, George I, Schulze PC, D'Armiento JM. Loss of secreted frizzled-related protein-1 leads to deterioration of cardiac function in mice and plays a role in human cardiomyopathy. *Circ Heart Fail.* 2015 Mar;8(2):362-72.

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George I, Nazif TM, Kalesan B, Kriegel J, Yerebakan H, Kirtane A, Kodali SK, Williams MR. Feasibility and Early Safety of Single-Stage Hybrid Coronary Intervention and Valvular Cardiac Surgery. *Ann Thorac Surg* 2015 Apr 9. pii: S0003-4975(15)00139-3. doi: 10.1016/j.athoracsur.2015.01.028. [Epub ahead of print]

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Zapolanski A, C.E. Kuschner, Brizzio ME, Grau JB. Homograft Subclavian Interposition Graft To Left Main In Aortic Root Replacement. *Eur J Cardiothorac Surg.* 2015 Feb 10. pii: ezv046. [Epub ahead of print]

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COLORECTAL SURGERY

Presentations

Kiran RP, Murray AC, Chiuzan C, Estrada D, Forde KA. Combined Preoperative Mechanical Bowel Preparation with Oral Antibiotics Significantly Reduces Surgical Site Infection, Anastomotic Leak and Ileus After Colorectal Surgery. American Surgical Association, San Diego, April 23, 2015.

Publications

Esemuede IO, Murray AC, Lee-Kong SA, Feingold DL, Kiran RP. Obesity, regardless of comorbidity, influences outcomes after colorectal surgery-time to rethink the pay-for-performance metrics? J Gastrointest Surg. 2014 Dec;18(12):2163-8. doi: 10.1007/s11605-014-2672-4. Epub 2014.

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GI/ENDOCRINE SURGERY

Presentations

Mahendraraj K, Epelboym I, Schrope B, Chabot JA, Kluger MD. Irreversible electroporation (Nanoknife®) for pancreatic cancer: a single institution series of 50 consecutive patients. 2015 American Hepatopancreaticobiliary Association Annual Meeting. Miami, FL; March 2015.

Leinwand JC, Kluger MD, Chabot JA, Taub RN. CT peritonography of dwell intraperitoneal chemotherapy for peritoneal mesothelioma. International Symposium on Malignant Mesothelioma. Washington, DC; March 2015.

Kuo JH, Chabot JA, Terry MB, Lee JA. Increased incidence of breast cancer among thyroid cancer survivors: an analysis of the SEER 9-database. American Association of Endocrine Surgeons Annual Meeting. 2015 May.

PEDIATRIC SURGERY

Presentations

24th Annual Meeting of the International Pediatric Endosurgery Group meeting in Nashville, TN April 14-18, 2015

- Graves C, Zitsman JL. Preventing Gastric Prolapse Following Laparoscopic Gastric Banding Pediatric Surgery: Relles D, Oh S.
 - Percutaneous Gastropexy: A Novel Approach to a Feared Complication of Percutaneous Gastrostomy Tube Placement.
-

SURGICAL EDUCATION

Presentations

Hsieh C, Nowygrod R, Henry R. Medical Students' Observations of Technical Versus Non-Technical Skills Teaching During the General Surgery Clerkship April 2015: AAMC (American Association of Medical Colleges) Northeast Group on Educational Affairs Annual Retreat.

THORACIC SURGERY

Presentations

International Society for Heart and Lung Transplantation, Nice, France, April 15-18, 2015

- Biscotti M, Gannon WD, Agerstrand C, Abrams D, Sonett J, Brodie D, Bacchetta M. Extracorporeal Membrane Oxygenation as a Bridge to Lung Transplantation Based on Intent to Treat: A Single-Center Experience.
- Singer JP, Diamond JM, Gries CJ, McDonnough J, Blanc PD, Shah r, Dean MY, Hersch B, Dolan J, Arcasoy S, Greenland JR, Smith N, Patterson S, Shah L, Golden JA, Blumenthal N, Sonett J, Hays S, Oyster M, D'Ovidio F, Katz PP, Robbins H, Brown M, Leard LE, Kukreja J, Bacchetta M, Rushefski M, Raza K, Christie JD, Lederer DJ. Frailty Is Associated With Pre-Operative Delisting and Death in Lung Transplant Candidates.
- Sanchez PG, Bittle GJ, Cantu E, D'Ovidio F, Weyant M, Davis D, Griffith BP.

Lung Compliance During Ex-Vivo Lung Perfusion Predicts Early Post Transplant Outcome.

- Diamond JM, Cantu E, Lederer DJ, Tobias J, Arcasoy S, Olthoff KM, Chang B, Feng R, Meyer K, Emond J, Shaked A, Christie JD. PGD Is Associated With Persistent Differential Gene Expression After Lung Transplantation.

American Association for Thoracic Surgery, Seattle, April 25-29, 2015

- Ginsburg ME, Thomashow BM, Bulman WM, Jellen PA, Whippo BA, Chiuzan C, Bai D, Sonett J. Safety, Efficacy, and Durability of Lung Volume Reduction Surgery: A 10-Year Experience.

Publications

Biscotti M, Agerstrand C, Abrams D, Ginsburg M, Sonett J, Mongero L, Takayama H, Brodie D, Bacchetta M. One Hundred Transports on Extracorporeal Support to an Extracorporeal Membrane Oxygenation Center. *Ann Thorac Surg.* 2015 Apr 23. pii: S0003-4975(15)00245-3. doi: 10.1016/j.athoracsur.2015.02.037. [Epub ahead of print]

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VASCULAR SURGERY

Publications

Lumsden AB, Morrissey NJ; Comparison of Safety and Primary Patency Between the FUSION BIOLINE Heparin-Coated Vascular Graft and EXXCEL Soft ePTFE (FINEST) Trial Co-investigators. Randomized controlled trial comparing the safety and efficacy between the FUSION BIOLINE heparin-coated vascular graft and the standard expanded polytetrafluoroethylene graft for femoropopliteal bypass. *J Vasc Surg.* 2015 Mar;61(3):703-12.e1. doi: 10.1016/j.jvs.2014.10.008.

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