



COLUMBIA UNIVERSITY

*College of Physicians
and Surgeons*



ColumbiaDoctors | *Surgery*

Dear Colleague,

This month, the Department of Surgery had an especially strong presence at international conferences focusing on cardio and thoracic surgery, with presentations as well in breast, colorectal, pediatric and plastic surgery, immunology and transplantation. Below you'll also find an impressive list of journal articles.

This Research Letter is a valuable resource for the department, so please continue to email Paul Kurlansky (pk2245@columbia.edu) or me (crs2@cumc.columbia.edu) with regular updates on your grants, publications, and presentations by the first of every month.

Remember, journal links may require subscriptions or a log-in through the Columbia library while PubMed links are accessible to all. Where there is only a journal link, the paper has not yet been downloaded to PubMed.

For easy reference, we now post all issues of this [newsletter](#) on the Center for Innovations and Outcomes Research website.

Craig R. Smith, MD, FACS
Chairman, Department of Surgery

CONGRATULATIONS

Dr. Mark Hardy has received the Lifetime Achievement Award from the European Society of Surgical Research in Madrid.

Dr. David Kalfa has been named chair of the Congenital Heart Valve Disease for the upcoming meeting of the Heart Valve Society.

Dr. Michael Kluger has been named to the American College of Surgeons, Cancer

Research Program, Cancer Care Standards Development Committee.

Dr. H.F. Shieh has been awarded Poster of Distinction in Clinical Science at the American Pediatric Surgical Association Annual Meeting.

BREAST SURGERY

Presentations

American Society of Breast Surgeons National Meeting

Orlando, May 6, 2018

Rao R. Quality measures in breast care.

Publications

Partain N, Mokdad A, Puzziferri N, Porembka J, Seiler S, Christie A, Farr D, Rivers A, Marilyn Leitch A, Wooldridge R, Huth J, Rao R. Mammographic density changes in surgical weight loss-an indication for personalized screening. *BMC Med Imaging*. 2018 May 9;18(1):10. doi: 10.1186/s12880-017-0242-4.

[Journal link](#)

[PubMed link](#)

CARDIAC SURGERY

Presentations

American Association for Thoracic Surgery 98th Annual Meeting

San Diego, April 28-May 1, 2018

DeRose JJ, Mancini D, Chang HL, Gillinov AM, Dagenais F, Ailawadi G, Perrault LP, Parides MK, Taddeio-Peters WC, Mack MJ, Glower D, Yerokun B, Athur P, Mullen JC, Puskas JD, O'Sullivan K, Sledzo-Joyce NM, Tremblay H, Moquete E, Ferke BS, Moskowitz AJ, Iribarne A, Gelifins AC, O'Gara P, Argenziano M. Title: Risk Factor sand Outcomes of Pacemaker Implantation after Concomitant Mitral Valve Surgery and Ablation of Atrial Fibrillation: Insights from a Surgical Ablation during Mitral Valve Surgery Trial.

Eudaliley KW, Kodali S, George I. Suprasternal transcatheter aortic valve replacement: A novel simplified approach.

Greason KL, Blackstone E, Rajeswaran J, Svensson LG, Moses JW, Webb J, Tuzcu M, Smith CR, Mack M, Thourani VH, Kodali S, Miller DC. Inter-site variability of mortality and stroke for sites performing both surgical and transcatheter aortic valve replacement for aortic valve stenosis in intermediate risk patients.

Johnston DR, Puskas JD, Bavaria JE, Blackstone EH, Griffith B, Gammie JS, Heimansohn DA, Sadowski J, Bartus K, Rozanski J, Rosengart T, Girardi LN, Klodell CT, Mumtaz MA, Takayama H, Halkos M, Starnes V, Boateng P, Timek TA, Ryan W, Shuab O, Smith CR, Svensson LG. Three-year outcomes of aortic valve replacement with a bioprosthetic valve with a novel tissue.

LaPar DJ, Chave M, Emani S, Baird CW. Outcomes of complete septation for multiple muscular ventricular septal defects in infants under 4 kg.

Polanco AR, Chiang YP, Song JJ, D'Angelo AM, Engel DJ, Patel VI, Takayama H. Impact of high volume Marfan syndrome centers on mitral repair rates in patients with Marfan syndrome.

Takeda K, Sanchez J, Ando M, Cevasco M, Takayama H, Naka Y. Outcomes of bridge to cardiac re-transplantation in the contemporary mechanical circulatory support era: An analysis of the UNOS database.

Publications

Akanni OJ, Takeda K, Truby LK, Kurlansky PA, Chiuzan C, Han J, Topkara VK, Yuzefpolskaya M, Colombo PC, Karpaliotis D, Moses JW, Naka Y, Garan AR, Kirtane AJ, Takayama H. EC-VAD: Combined Use of Extracorporeal Membrane Oxygenation and Percutaneous Microaxial Pump Left Ventricular Assist Device. *ASAIO J*. 2018 Apr 19. doi: 10.1097/MAT.0000000000000804.

[Journal link](#)

[PubMed link](#)

Cevasco M, Takeda K, Chan CW, Ando M, Takayama H. J Still legwork to do. *Thorac Cardiovasc Surg*. 2018 Mar 26. pii: S0022-5223(18)30830-4. doi: 10.1016/j.jtcvs.2018.03.050.

[Journal link](#)

[PubMed link](#)

Fried JA, Nair A, Takeda K, Clerkin K, Topkara VK, Masoumi A, Yuzefpolskaya M, Takayama H, Naka Y, Burkhoff D, Kirtane A, Dimitrios Karpaliotis SM, Moses J, Colombo PC, Garan AR. Clinical and hemodynamic effects of intra-aortic balloon pump therapy in chronic heart failure patients with cardiogenic shock. *J Heart Lung*

Transplant. 2018 Mar 20. pii: S1053-2498(18)31396-2. doi: 10.1016/j.healun.2018.03.011.

[Journal link](#)

[PubMed link](#)

Guerrero M, Urena M, Himbert D, Wang DD, Eleid M, Kodali S, George I, Chakravarty T, Mathur M, Holzhey D, Pershad A, Fang HK, O'Hair D, Jones N, Mahadevan VS, Dumonteil N, Rodés-Cabau J, Piazza N, Ferrari E, Ciaburri D, Nejjari M, DeLago A, Sorajja P, Zahr F, Rajagopal V, Whisenant B, Shah PB, Sinning JM, Witkowski A, Eltchaninoff H, Dvir D, Martin B, Attizzani GF, Gaia D, Nunes NSV, Fassa AA, Kerendi F, Pavlides G, Iyer V, Kaddissi G, Witzke C, Wudel J, Mishkel G, Raybuck B, Wang C, Waksman R, Palacios I, Cribier A, Webb J, Bapat V, Reisman M, Makkar R, Leon M, Rihal C, Vahanian A, O'Neill W, Feldman T. 1-Year Outcomes of Transcatheter Mitral Valve Replacement in Patients With Severe Mitral Annular Calcification. *J Am Coll Cardiol.* 2018 May 1;71(17):1841-1853. doi: 10.1016/j.jacc.2018.02.054.

[Journal link](#)

[PubMed link](#)

Hickey KT, Garan H, Mancini DM, Colombo PC, Naka Y, Sciacca RR, Abrams MP, Solove M, Zeoli N, Flannery M, Garan AR, Biviano AB. Atrial Fibrillation in Patients With Left Ventricular Assist Devices: Incidence, Predictors, and Clinical Outcomes. *JACC Clin Electrophysiol.* 2016 Dec;2(7):793-798. doi: 10.1016/j.jacep.2016.03.009. Epub 2016 May 25.

[Journal link](#)

[PubMed link](#)

Kalfa D. Fontan-associated liver disease: Is it all about hemodynamics? *J Thorac Cardiovasc Surg.* 2018 Apr 3. pii: S0022-5223(18)30885-7. doi: 10.1016/j.jtcvs.2018.03.104.

[Journal link](#)

[PubMed link](#)

Langer NB, Solowiejczyk D, Fahey JT, Torres A, Bacha E, Kalfa D. Modified technique for Melody valve implantation in the mitral position. *J Thorac Cardiovasc Surg.* 2018 Apr 11. pii: S0022-5223(18)30933-4. doi: 10.1016/j.jtcvs.2018.04.001. [Epub ahead of print]

[Journal link](#)

[PubMed link](#)

LaPar DJ, Baird CW. Surgical Considerations in Interrupted Aortic Arch. *Semin Cardiothorac Vasc Anesth.* 2018 May 1:1089253218776664. doi:

10.1177/1089253218776664.

[Journal link](#)

[PubMedlink](#)

LaPar DJ, Hawkins RB, McMurry TL, Isbell JM, Rich JB, Speir AM, Quader MA, Kron IL, Kern JA, Ailawadi G; Investigators for the Virginia Cardiac Services Quality Initiative. Preoperative anemia versus blood transfusion: Which is the culprit for worse outcomes in cardiac surgery? *J Thorac Cardiovasc Surg*. 2018 Apr 4. pii: S0022-5223(18)30890-0. doi: 10.1016/j.jtcvs.2018.03.109.

[Journal link](#)

[PubMed link](#)

Sabik JF 3rd, Rao V, Lange R, Kappetein AP, Dagenais F, Labrousse L, Bapat V, Moront M, Weissman NJ, Patel HJ, Reardon MJ, Asch FM, Zeng C, Klautz RJM; PERIGON Investigators. One-year outcomes associated with a novel stented bovine pericardial aortic bioprosthesis. *J Thorac Cardiovasc Surg*. 2018 Apr 18. pii: S0022-5223(18)31033-X. doi: 10.1016/j.jtcvs.2018.03.171.

[Journal link](#)

[PubMed link](#)

Truby LK, Sridharan L, Flores RJ, Garan AR, Jennings D, Yuzefpolskaya M, Takeda K, Takayama H, Naka Y, Colombo PC, Topkara VK. Red Cell Distribution Width Predicts 90 Day Mortality in Continuous-Flow Left Ventricular Assist Device Patients. *ASAIO J*. 2018 Apr 19. doi: 10.1097/MAT.0000000000000803.

[Journal link](#)

[PubMed link](#)

COLON AND RECTAL SURGERY

Presentations

The American Society of Colon and Rectal Surgeons Annual Meeting

Nashville, TN, May 19-23, 2018

Keller DS, Zaghiyan K, Mizell J. Use of Robotic Technology: Practice Patterns of the ASCRS Young Surgeons Committee.

Keller DS, Reali C, Penna M, Hompes R. Long-term Functional and Quality of Life Outcomes After TaTME for Rectal Cancer.

Keller DS, Devoto L, Ganeshan B, Groves A, Arulampalam T, Chand M. Texture Analysis as an Imaging Biomarker for Early Identification and Stratification of Hepatic Metastasis in Rectal Cancer.

Publications

Emile SH, de Lacy FB, Keller DS, Martin-Perez B, Alrawi S, Lacy AM, Chand M. Evolution of transanal total mesorectal excision for rectal cancer: From top to bottom. *World J Gastrointest Surg.* 2018 Mar 27;10(3):28-39. doi: 10.4240/wjgs.v10.i3.28. Review.

[Journal link](#)

[PubMed link](#)

Keller DS, Wexner SD, Chand M. Multidisciplinary Rectal Cancer Care in the United States: Lessons Learned from the United Kingdom Multidisciplinary Team Model and Future Perspectives. *Dis Colon Rectum.* 2018 May 15. doi: 10.1097/DCR.0000000000001107.

[Journal link](#)

[PubMed link](#)

Keller DS, Boulton R, Rodriguez-Justo M, Cohen R, Chand M. A Novel Application of Indocyanine Green Immunofluorescence in Emergent Colorectal Surgery. *J Fluoresc.* 2018 Apr 26. doi: 10.1007/s10895-018-2230-7.

[Journal link](#)

[PubMed link](#)

Knol J, Keller DS. Cognitive skills training in digital era: A paradigm shift in surgical education using the TaTME model. *Surgeon.* 2018 Apr 30. pii: S1479-666X(18)30042-8. doi: 10.1016/j.surge.2018.03.008. [Epub ahead of print] Review.

[Journal link](#)

[PubMed link](#)

IMMUNOLOGY/TRANSPLANTATION SURGERY

Presentations

Turkish Chapter of the American College of Surgeons
May 8-10, 2018

Hardy M, The future of transplantation.

*European Society of Surgical Research
Madrid, Spain, May 29-June 2, 2018*

Hardy M, The future of surgical research.

*Hallym Columbia Symposium, Hallym University
South Korea, June 8, 2018*

Hardy M, Moderator, the future of organ replacement and repair.

*Hallym University
South Korea, June 12, 2018*

Hardy M, Progress in xenotransplantation. Invited lecture.

Publications

American Society of Transplant Surgeons Executive Committee, Gaber O, Reed A, Pruettt T, Emond J. Transplantation in value-based care for patients with renal failure. *Am J Transplant*. 2018 Apr 20. doi: 10.1111/ajt.14878.

[Journal link](#)

[PubMed link](#)

Batal I, Mohan S, De Serres SA, Vasilescu ER, Tsapepas D, Crew RJ, Patel SS, Serban G, McCune K, Husain SA, Chang JH, Herter JM, Bhagat G, Markowitz GS, D'Agati VD, Hardy MA, Ratner L, Chandraker A. Analysis of dendritic cells and ischemia-reperfusion changes in postimplantation renal allograft biopsies may serve as predictors of subsequent rejection episodes. *Kidney Int*. 2018 May;93(5):1227-1239.

[Journal link](#)

[PubMed link](#)

Fishman JA, Sachs DH, Yamada K, Wilkinson RA. Absence of interaction between porcine endogenous retrovirus and porcine cytomegalovirus in pig-to-baboon renal xenotransplantation in vivo. *Xenotransplantation*. 2018 Apr 6:e12395. doi: 10.1111/xen.12395. [Epub ahead of print]

[Journal link](#)

[PubMed link](#)

Halazun KJ, Emond JC. Re: The Pursuit of Happiness. The thin line between rights and duties. *Am J Transplant*. 2018 Apr 28. doi: 10.1111/ajt.14899.

[Journal link](#)

[PubMed link](#)

Michel SG, Madariaga MLL, LaMuraglia GM 2nd, Villani V, Sekijima M, Farkash EA,

Colvin RB, Sachs DH, Yamada K, Rosengard BR, Allan JS, Madsen JC. The effects of brain death and ischemia on tolerance induction are organ-specific. *Am J Transplant*. 2018 May;18(5):1262-1269. doi: 10.1111/ajt.14674. Epub 2018 Mar 5.

[Journal link](#)

[PubMed link](#)

Rivard CJ, Tanabe T, Lanaspá MA, Watanabe H, Nomura S, Andres-Hernando A, Garth K, Sekijima M, Ishimoto T, Ariyoshi Y, Garcia GE, Shah J, Boyd L, Tasaki M, Pomposelli T, Shimizu A, Sachs DH, Johnson RJ, Yamada K. Upregulation of CD80 on glomerular podocytes plays an important role in development of proteinuria following pig-to baboon xeno renal transplantation- an experimental study. *Transpl Int*. 2018 May 2. doi: 10.1111/tri.13273

[Journal link](#)

[PubMed link](#)

Rosen SJ, Harris PE, Hardy MA. State of the Art: Role of the Dendritic Cell in Induction of Allograft Tolerance. *Transplantation*. 2018 Apr 19. doi: 10.1097/TP.0000000000002239.

[Journal link](#)

[PubMed link](#)

Samstein B, de Melo-Martin I, Kapur S, Ratner L, Emond J. A liver for a kidney: Ethics of trans-organ paired exchange. *Am J Transplant*. 2018 May;18(5):1077-1082. doi: 10.1111/ajt.14690. Epub 2018 Mar 25.

[Journal link](#)

[PubMed link](#)

Shah JA, Lanaspá MA, Tanabe T, Watanabe H, Johnson RJ, Yamada K. Remaining Physiological Barriers in Porcine Kidney Xenotransplantation: Potential Pathways behind Proteinuria as well as Factors Related to Growth Discrepancies following Pig-to-Kidney Xenotransplantation. *J Immunol Res*. 2018 Mar 4;2018:6413012. doi: 10.1155/2018/6413012. eCollection 2018. Review.

[Journal link](#)

[PubMed link](#)

Sondermeijer H, Witkowski P, Seki T, van der Laarse A, Itescu S, Hardy MA. RGDfK-peptide modified alginate scaffold for cell transplantation and cardiac neovascularization. *Tissue Eng. Part A*. 2017 Sep 22. doi: 10.1089/ten.TEA.2017.0221. [Epub ahead of print]

[Journal link](#)

[PubMed link](#)

Vallabhajosyula P, Hirakata A, Weiss M, Griesemer A, Shimizu A, Hong H, Habertheuer A, Tchipashvili V, Yamada K, Sachs DH. Effect of the Diabetic State on Islet Engraftment and Function in a Large Animal Model of Islet-Kidney Transplantation. *Cell Transplant*. 2017 Nov;26(11):1755-1762. doi: 10.1177/0963689717732993.

[Journal link](#)

[PubMed link](#)

PEDIATRIC SURGERY

Presentations

*49th Annual Meeting of the American Pediatric Surgical Association
Palm Desert, CA, May 3-6, 2018*

Robson VK, Shieh HF, Wilson JM, Buchmiller TL. Non-Operative Management of Extralobar Pulmonary Sequestration: A Safe Alternative to Resection? Oral Poster Presentation.

PLASTIC SURGERY

Presentations

*Seventy-fifth annual meeting of the American Cleft Palate-Craniofacial Association
Pittsburgh, PA, April 2018*

Morrison KA, Lee JC, Souweidane MM, Feldstein NA, Ascherman JA. Twenty- year outcome experience with open craniosynostosis repairs: An analysis of reoperation and complication rates.

Publications

Cohen LE, Morrison KA, Taylor E, Jin J, Spector JA, Caruana S, Rohde CH. Functional and Aesthetic Outcomes in Free Flap Reconstruction of Intraoral Defects With Lip-Split Versus Non-Lip-Split Incisions. *Ann Plast Surg*. 2018 Apr;80(4 Suppl 4):S150-S155. doi: 10.1097/SAP.0000000000001373.

[Journal link](#)

[PubMed link](#)

Morrison KA, Lee JC, Souweidane MM, Feldstein NA, Ascherman JA. Twenty-Year Outcome Experience With Open Craniostomosis Repairs: An Analysis of Reoperation and Complication Rates. *Ann Plast Surg.* 2018 Apr;80(4 Suppl 4):S158-S163. doi: 10.1097/SAP.0000000000001365.

[Journal link](#)

[PubMed link](#)

THORACIC SURGERY

Presentations

*American Association for Thoracic Surgery 98th Annual Meeting
San Diego, CA, April 28-May 1, 2018*

Demarest CT, Skoog DJ, Bacchetta M, Cook KE. In vitro resistance and gas transfer properties of pulmonary assist device, an ambulatory ECMO oxygenator designed for destination therapy.

O'Neill JD, Guenthart BA, Hozain A, Vunjuak-Novakovic G, Bacchetta M. Strategies for removal and replacement of pulmonary epithelium in extracorporeal lungs on cross-circulation support.

Tipograf Y, Liou P, Bacchetta M, Agerstrand C. Interfacility transport of patients requiring extracorporeal membrane oxygenation support: Single center model and experience.

*The 26th European Conference on General Thoracic Surgery
Ljubljana, Slovenia, May 27-30, 2018*

Costa J, Piloni D, Gomez A, Urso A, Shah L, Robbins H, Benvenuto L, Sonett J, Arcasoy S, D'Ovidio F. Single vs. double lung transplantation for emphysema in the lung allocation score era: A single center experience.

Publications

Ebright MI. Much Ado About Precision. *Semin Thorac Cardiovasc Surg.* 2018 Spring;30(1):102-103. doi: 10.1053/j.semtcvs.2018.02.018. Epub 2018 Feb 15.

[Journal link](#)

[PubMed link](#)



Columbia University
Department of Surgery
630 West 168th Street
Box 94
New York, NY 10032
info@columbiasurgery.org