



COLUMBIA UNIVERSITY

*College of Physicians  
and Surgeons*



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Dear Faculty,

Here is this month's compendium of research news from the Department of Surgery—a respectable showing for high summer!

Please remember to email [Paul Kurlansky](mailto:Paul.Kurlansky@cumc.columbia.edu) ([pk2245@columbia.edu](mailto:pk2245@columbia.edu)) or me ([crs2@cumc.columbia.edu](mailto:crs2@cumc.columbia.edu)) with updates on your confirmed publications, presentations, and grants by the first of every month. And thank you for your many contributions to date. All issues of this [newsletter](#) are now available on the Center for Innovations and Outcomes Research web site for easy reference.

A reminder: PubMed links below should work for everyone. Journal links require a subscription or connection through the Columbia University library e-journal system.

Best regards,  
Craig Smith, MD

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## CONGRATULATIONS

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To Dr. Emile Bacha on receiving "Teacher of the Year" award from the Division of Pediatric Cardiology at CUMC.

To Dr. Jean C. Emond on his election as incoming President of the American Society of Transplant Surgeons (ASTS).

To Dr. David Kalfa on becoming the youngest full member of the European Congenital Heart Surgeons Association (ECHSA).

To the entire Lung Transplant Team for completing CMS review with zero deficiencies and greater than expected 3-year patient survival at 81 percent—13 points higher than the national average.

To Dr. Christine Rohde on receiving a \$50,000 grant from the National Endowment for Plastic Surgery for her project, Electromagnetic Fields and Pectoral Block for Breast Reconstruction Pain Control—and for her feature on female surgeons in last month's

[Harvard Medicine](#) magazine.

To Dr. Lori Soni (Michael Argenziano, sponsor) on winning The Blakemore Prize (\$1,000) for best body of research during the general surgery training program in clinical and basic research. Dr. Soni focused on atrial fibrillation and clinical research in circulatory assistance and cardiac transplantation. She was first author on seven of ten original publications, wrote four book chapters, and participated in 17 presentations.

To Dr. Rachel Campbell Hooper (Jason Spector, NYWC sponsor) first runner-up for the Blakemore Prize (\$250) for conducting highly sophisticated and innovative microchannel studies of vascular and tissue replacement, including arteriovenous vascular anastomoses in rats. Dr. Hooper was first author on two of seven original publications and participated in 18 presentations.

To Dr. Steven Stylianos on receiving the prestigious American Pediatric Surgical Nurses Association 2016 Champions Award.

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## **BREAST SURGERY**

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### **Publications**

Gomberawalla A, Feldman S. SYMPHA: New innovation, not old practice. J Clin Oncol 2016 Jun13. Pii: JCO678987 [Epub ahead of print].

[Journal Link](#)

[PubMed Link](#)

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## **CARDIAC SURGERY**

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### **Presentations**

*Joint Meeting, the Congenital Heart Surgeons' Society and the European Congenital Heart Surgeons Association CHSS-ECHSA, Venice, Italy, June 23-25th, 2016.*

D Kalfa, A. Ferris. A Complex Mitral Valve Reconstruction in a 14 Year-Old Girl with Destructive Endocarditis.

D Kalfa, L Kasmi, M Montreuil, N Geronikola, E Belli, D Bonnet, E. Bacha,

Neuropsychological and Psychosocial Outcomes in Adults Two Decades after a Neonatal Arterial Switch Operation.

D Kalfa, M Pontaller, B Ahmad, G Williams, P Pouponneau, M Blanchy, K Thibaut, P Hommes-Schattmann, A Neffe, V Vanneaux, P Menasche Tissue Engineering of the Right Heart Outflow Tract by a Biofunctionalized Bioresorbable Polymeric Valved TUBE: Mid-term results of the TEH-TUBE program.

*Advanced Functional Polymers for Medicine 2016, Enschede, Netherlands, June 15-17th, 2016.*

PJ Hommes-Schattmann, AT Neffe, B Ahmad, GR. Williams, V Vanneaux, P Menasché, D Kalfa, A Lendlein Electrospun PPDO-Patches with Incorporated RGD Constructs.

## **Publications**

Chai PJ. Venovenous extracorporeal membrane oxygenation and single-ventricle patients: A good match? *J Thorac Cardiovasc Surg.* 2016 Jun;151(6):1737. doi: 10.1016/j.jtcvs.2016.03.030. Epub 2016 Mar 28.

[Journal Link](#)

[PubMed Link](#)

Coromilas E, Que-Xu EC, Moore D, Kato TS, Wu C, Ji R, Givens R, Jorde UP, Takayama H, Naka Y, George I, Mancini D, Schulze PC. Dynamics and prognostic role of galectin-3 in patients with advanced heart failure, during left ventricular assist device support and following heart transplantation. *BMC Cardiovasc Disord.* 2016 Jun 14;16:138. doi: 10.1186/s12872-016-0298-z.

[Journal Link](#)

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Edwards FH, Ferraris VA, Kurlansky PA, Lobdell KW, He X, O'Brien SM, Furnary AP, Rankin JS, Vassileva CM, Fazzalari FL, Magee MJ, Badhwar V, Xian Y, Jacobs JP, Wyler von Ballmoos MC, Shahian DM. Failure to Rescue Rates after Coronary Artery Bypass Grafting: An Analysis from The Society of Thoracic Surgeons Adult Cardiac Surgery Database. *Ann Thorac Surg.* 2016 Jun 22. pii: S0003-4975(16)30381-2. doi: 10.1016/j.athoracsur.2016.04.051. [Epub ahead of print].

[Journal Link](#)

[PubMed Link](#)

Levin AP, Saeed O, Willey JZ, Levin CJ, Fried JA, Patel SR, Sims DB, Nguyen JD, Shin JJ, Topkara VK, Colombo PC, Goldstein DJ, Naka Y, Takayama H, Uriel N, Jorde UP. Watchful Waiting in Continuous-Flow Left Ventricular Assist Device Patients With Ongoing Hemolysis Is Associated With an Increased Risk for Cerebrovascular Accident or Death. *Circ Heart Fail.* 2016 May;9(5). pii: e002896. doi:

10.1161/CIRCHEARTFAILURE.115.002896.

[Journal Link](#)

[PubMed Link](#)

Liberman L, Silver ES, Chai PJ, Anderson BR. Incidence and characteristics of heart block after heart surgery in pediatric patients: A multicenter study. *J Thorac Cardiovasc Surg.* 2016 Jul;152(1):197-202. doi: 10.1016/j.jtcvs.2016.03.081. Epub 2016 May 7.

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## CENTER INNOVATION AND OUTCOMES RESEARCH

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### Presentations

*American Diabetes Association (ADA) 76th Scientific Session. New Orleans, LA: June 10-14, 2016.*

Cai J, Wang Y, Baser O, Xie L, Diels J, Neslusan C, Chow W. Comparative persistence with antihyperglycemic agents (AHA) used to treat type 2 diabetes mellitus (T2DM) in the real world.

### Publications

Zilberberg MD, Shorr AF, Wang L, Baser O, Yu H. Development and Validation of a Risk Score for Clostridium difficile Infection in Medicare Beneficiaries: A Population-Based Cohort Study. *J Am Geriatr Soc.* 2016.

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## COLON AND RECTAL SURGERY

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### Publications

Murray AC, Kiran RP. Benefit of mechanical bowel preparation prior to elective colorectal surgery: current insights. *Langenbecks Arch Surg.* 2016 Jun 20. [Epub ahead of print] Review.

[Journal Link](#)

[PubMed Link](#)

Pappou EP, Kiran RP. The Failed J Pouch. Clin Colon Rectal Surg. 2016 Jun;29(2):123-9. doi: 10.1055/s-0036-1580724. Review.

[Journal Link](#)

[PubMed Link](#)

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## IMMUNOLOGY

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### Presentations

*American Transplant Congress, June 11-15, 2016 – Boston, MA.*

Sykes M. Pediatric Symposia. Tolerance: Determinants, Definitions And Forms – Discerning Host Alloimmunity by T-cell Receptor Sequencing.

*Federation of Clinical Immunology Societies, June 22-25, 2016 – Boston MA.*

Sykes M. Transplantation Tolerance: An Optimal and Feasible Solution.

### Publications

Madariaga ML, Spencer PJ, Shanmugarajah K, Crisalli KA, Chang DC, Markmann JF, Elias N, Cosimi AB, Sachs DH, Kawai T. Effect of tolerance versus chronic immunosuppression protocols on the quality of life of kidney transplant recipients. JCI Insight. 2016 Jun 2;1(8). pii: e87019.

[Journal Link](#)

[PubMed Link](#)

Shah JA, Navarro-Alvarez N, DeFazio M, Rosales IA, Elias N, Yeh H, Colvin RB, Cosimi AB, Markmann JF, Hertl M, Sachs DH, Vagefi PA. A Bridge to Somewhere: 25-day Survival After Pig-to-Baboon Liver Xenotransplantation. Ann Surg. 2016 Jun;263(6):1069-71. doi: 10.1097/SLA.0000000000001659.

[Journal Link](#)

[PubMed Link](#)

Tasaki M, Villani V, Shimizu A, Sekijima M, Yamada R, Hanekamp IM, Hanekamp JS, Cormack TA, Moran SG, Kawai A, Sachs DH, Yamada K. Role of bone marrow maturity, insulin-like growth factor 1 receptor and forkhead box protein N1 in thymic

involution and rejuvenation. Am J Transplant. 2016 May 4. doi: 10.1111/ajt.13855. [Epub ahead of print].

[Journal Link](#)

[PubMed Link](#)

Tena AA, Sachs DH, Mallard C, Yang YG, Tasaki M, Farkash E, Rosales IA, Colvin RB, Leonard DA, Hawley RJ. Prolonged Survival of Pig Skin on Baboons After Administration of Pig Cells Expressing Human CD47. Transplantation. 2016 May 26. [Epub ahead of print].

[Journal Link](#)

[PubMed Link](#)

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## LIVER TRANSPLANTATION

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### Publications

Dew MA, DiMartini AF, Ladner DP, Simpson MA, Pomfret EA, Gillespie BW, Merion RM, Zee J, Smith AR, Holtzman S, Sherker AH, Weinrieb R, Fisher RA, Emond JC, Freise CE, Burton JR Jr, Butt Z. Psychosocial Outcomes 3 to 10 Years After Donation in the Adult to Adult Living Donor Liver Transplantation Cohort Study. Transplantation. 2016 Jun;100(6):1257-69. doi: 10.1097/TP.0000000000001144.

[Journal Link](#)

[PubMed Link](#)

Emond JC. Live Donor Liver Transplantation: An International Perspective. Transplantation. 2016 Jun;100(6):1182-3. doi: 10.1097/TP.0000000000001220

[Journal Link](#)

[PubMed Link](#)

Pomposelli JJ, Goodrich NP, Emond JC, Humar A, Baker TB, Grant DR, Fisher RA, Roberts JP, Olthoff KM, Gillespie BW, Merion RM. Patterns of Early Allograft Dysfunction in Adult Live Donor Liver Transplantation: The A2ALL Experience. Transplantation. 2016 Jul;100(7):1490-9. doi: 10.1097/TP.0000000000001240.

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## **PEDIATRIC SURGERYY**

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### **Presentations**

*International Pediatric Endosurgery Group (IPEG) Annual Meeting, May 24-28, Fukuoka, Japan, 2016.*

Coons B, Relles D, Kadenhe-Chiweshe A, Duron V. Laparoscopic-Assisted Resection of a Large Omental Lymphatic Malformation in a Two-Year-Old Male.

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## **THORACIC SURGERY**

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### **Presentations**

*American Society for Artificial Internal Organs (ASAIO) 62nd Annual Conference, SF, June 18, 2016.*

Mauer Biscotti, Clinical Perspective: Mobility and Transport From Bedside to Airside.

American Association for Thoracic Surgery Annual Meeting, Baltimore, May 2016.

Singh G, Glotzbach J, George I, Sonett J. Thoracic endograft stent placement followed by extended resection of the aortic arch and descending thoracic aorta infiltrated by lung cancer.

*Fourth European Conference on General Thoracic Surgery Naples, Italy, May 2016.*

G Singh MD, PA Jellen MSN BA Whippo MSN, C Chiuzan PhD, BM Thomashow MD JR Sonett MD, ME Ginsburg MD Apical Perfusion Fraction May Not be a Predictor of Functional Outcomes Following Bilateral Lung Volume Reduction Surgery.

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## **VASCULAR SURGERY**

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### **Publications**

Ilonzo N, Egorova NN, Nowygrod R. Interhospital transfer for intact abdominal aortic aneurysm repair. *J Vasc Surg.* 2016 Apr;63(4):859-865.e2. doi:

10.1016/j.jvs.2015.10.068. Epub 2016 Jan 9.

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