

Dear Colleague,

Nigel Bunnett, PhD, organized the highly successful **2nd Annual Research Symposium** at NYP/Columbia on June 15, 2018, drawing 80 participants. This event held at the Vagelos Education Center on Haven Avenue, featured 20 presentations, 20 posters and the winners of the Blakemore Award, listed below.

The Visiting Professor Lecture, chaired by Steven Stylianos, MD, featured Alan W. Flake, MD, FACS, FAAP, Ruth M. and Tristram C. Colket, Jr. Professor of Pediatric Surgery at Children's Hospital of Philadelphia. The title of the talk: Toward Physiologic Support of the Extreme Premature Infant.

In recent weeks, the Department of Surgery had an especially strong presence at international conferences and faculty contributed an impressive list of journal articles in Basic Science, Cardiac, Vascular, Colorectal, GI, Immunology/Transplantation and Pediatric surgery. Megan Sykes, MD, also launched an online lecture series, *The Immune Response to Allo- and Xenotransplantation*.

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

Giovanni Ferrari, PhD, received a four-year award from NIH-NHLBI as PI for R01 HL143008, Oxidation-mediated structural degeneration of bioprosthetic heart valves. Total funding \$3,250,145.

Danielle Bajakian, MD, and Andreas Hielscher, PhD, professor of biomedical engineering, received a grant from the President's Global Innovation Fund for Novel methods and technologies to diagnose, monitor and treat diabetic foot syndrome.

Adam Griesemer, MD, received the American Society of Transplant Surgeons Faculty Development Grant.

Nicholas J. Morrissey, MD, was named to Vascular Surgery Board Certifying Exam Writing Committee of the American Board of Surgery.

Kathryn Wood, MD, and Megan Sykes, MD, were awarded the 2018 Medawar Prize, the most prestigious award in the field of transplantation.



And finally, the winners of the 2018 Blakemore Prize are:

Best Clinical Presentation – Antonio Frasca, PhD

Best Basic Science Presentation – Dane Jensen, PhD

Best Overall Presentation – Aqsa Shakoore, MD

BASIC SCIENCE

Publications

DiCello JJ, Saito A, Rajasekhar P, Eriksson EM, McQuade RM, Nowell CJ, Sebastian BW, Fichna J, Veldhuis NA, Canals M, Bunnett NW, Carbone SE, Poole DP. Inflammation-associated changes in DOR expression and function in the mouse colon. *Am J Physiol Gastrointest Liver Physiol*. 2018 Jun 21. doi: 10.1152/ajpgi.00025.2018.

[Journal link](#)

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Guerrero-Alba R, Valdez-Morales EE, Jiménez-Vargas NN, Bron R, Poole D, Reed D, Castro J, Campaniello M, Hughes PA, Brierley SM, Bunnett N, Lomax AE, Vanner S. Co-expression of μ and δ opioid receptors by mouse colonic nociceptors. *Br J Pharmacol*. 2018 Jul;175(13):2622-2634. doi: 10.1111/bph.14222.

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Jimenez-Vargas NN, Pattison LA, Zhao P, Lieu T, Latorre R, Jensen DD, Castro J, Aurelio L, Le GT, Flynn B, Herenbrink CK, Yeatman HR, Edgington-Mitchell L, Porter CJH, Halls ML, Canals M, Veldhuis NA, Poole DP, McLean P, Hicks GA, Scheff N, Chen E, Bhattacharya A, DiCello JJ, Saito A, Rajasekhar P, Eriksson EM, McQuade RM, Nowell CJ, Sebastian BW, Fichna J, Veldhuis NA, Canals M, Bunnett NW, Carbone SE, Poole DP. Inflammation-associated changes in DOR expression and function in the mouse colon. *Am J Physiol Gastrointest Liver Physiol*. 2018 Jun 21. doi: 10.1152/ajpgi.00025.2018.

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Marone IM, De Logu F, Nassini R, De Carvalho Goncalves M, Benemei S, Ferreira J, Jain P, Li Puma S, Bunnett NW, Geppetti P, Materazzi S. TRPA1/NOX in the soma of trigeminal ganglion neurons mediates migraine-related pain of glyceryl trinitrate in mice. *Brain*. 2018 Jul 6. doi: 10.1093/brain/awy177.

[Journal link](#)

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CARDIAC SURGERY

Presentations

Annual meeting of the International Society of Minimally Invasive Cardiothoracic Surgery Vancouver, British Columbia, June 13-16, 2018

Raza ST, Further Refinements in Aortic Anastomosis Stapling Device, Best Poster Presentation Award.

51st Annual Meeting of the Florida Society of Thoracic and Cardiovascular Surgeons Ocean Reef, Florida, July 13-15, 2018

Kurlansky P. Arterial grafting: Everything old is new again.

Kurlansky P. Transparency of cardiothoracic results reporting.

Publications

Ando M, Hastie J, Takayama H. Living, and living well, after cardiac surgery. *J Thorac Cardiovasc Surg.* 2018 Jul 2. pii: S0022-5223(18)31754-9. doi: 10.1016/j.jtcvs.2018.05.121.

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Bacha EA. Intraoperative balloon dilation in tetralogy of Fallot: Is there a "secret sauce"? *J Thorac Cardiovasc Surg.* 2018 Aug;156(2):782. doi: 10.1016/j.jtcvs.2018.02.073.

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Baron SJ, Thourani VH, Kodali S, Arnold SV, Wang K, Magnuson EA, Pichard AD, Babaliaros V, George I, Miller DC, Tuzcu EM, Greason K, Herrmann HC, Smith CR, Leon MB, Cohen DJ; PARTNER 2 Investigators. Effect of SAPIEN 3 Transcatheter Valve Implantation on Health Status in Patients With Severe Aortic Stenosis at Intermediate Surgical Risk: Results From the PARTNER S3i Trial. *JACC Cardiovasc Interv.* 2018 Jun 25;11(12):1188-1198.

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Fortier JH, Ferrari G, Glineur D, Gaudino M, Shaw RE, Ruel M, Grau JB. Implications of coronary artery bypass grafting and percutaneous coronary intervention on disease progression and the resulting changes to the physiology and pathology of the native coronary arteries. *Eur J Cardiothorac Surg.* 2018 Apr 23. doi: 10.1093/ejcts/ezy171.

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Habal MV, Truby L, Ando M, Ikegami H, Garan AR, Topkara VK, Colombo P, Takeda K, Takayama H, Naka Y, Farr MA. VA-ECMO for cardiogenic shock in the contemporary era of heart transplantation: which patients should be urgently transplanted? *Clin Transplant*. 2018 Jul 23:e13356. doi: 10.1111/ctr.13356.

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Kini AS, Rodés-Cabau J, Leon MB, Kodali SK. Impact of Aortic Root Anatomy and Geometry on Paravalvular Leak in Transcatheter Aortic Valve Replacement With Extremely Large Annuli Using the Edwards SAPIEN 3 Valve. *JACC Cardiovasc Interv*. 2018 Jul 23;11(14):1377-1387.

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Kurlansky P, Tatoulis J, Kolh P. The cathexis of bilateral internal mammary artery grafting and where to best devote our energy. *Eur J Cardiothorac Surg*. 2018 Jul 24. doi: 10.1093/ejcts/ezy230.

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Nakagawa S, Garan AR, Takayama H, Takeda K, Topkara VK, Yuzefpolskaya M, Lin SX, Colombo PC, Naka Y, Blinderman CD. End of Life with Left Ventricular Assist Device in Both Bridge to Transplant and Destination Therapy. *J Palliat Med*. 2018 Jun 6. doi: 10.1089/jpm.2018.0112.

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Nakanishi K, Homma S, Han J, Takayama H, Colombo PC, Yuzefpolskaya M, Garan AR, Farr MA, Kurlansky P, Di Tullio MR, Naka Y, Takeda K. Prevalence, Predictors, and Prognostic Value of Residual Tricuspid Regurgitation in Patients With Left Ventricular Assist Device. *J Am Heart Assoc*. 2018 Jun 24;7(13). pii: e008813. doi: 10.1161/JAHA.118.008813.

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Olds A, Eudailey K, Nazif T, Vahl T, Khaliq O, Lewis C, Hahn R, Leon M, Bapat V, Ahmed M, Kodali S, George I. Suprasternal and Left Axillary Transcatheter Aortic Valve Replacement in Morbidly Obese Patients. *Ann Thorac Surg*. 2018 Jul 13. pii: S0003-4975(18)30978-0. doi: 10.1016/j.athoracsur.2018.05.095.

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Paul EA, Torres AJ, Chelliah A, Martinez M, Ferris AM, Kalfa DM. Extra-anatomic suprahepatic to innominate vein conduit in heterotaxy. *J Thorac Cardiovasc Surg*. 2018 Jul;156(1):327-329. doi: 10.1016/j.jtcvs.2018.03.026.

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Shivaraju A, Michel J, Frangieh AH, Ott I, Thilo C, Schunkert H, Kastrati A, Leon MB, Dvir D, Kodali S, Bapat V, Guerrero M, Kasel AM. Transcatheter Aortic and Mitral Valve-in-Valve Implantation Using the Edwards Sapien 3 Heart Valve. *J Am Heart Assoc*. 2018 Jul 7;7(14). pii: e007767. doi: 10.1161/JAHA.117.007767.

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Stephens EH, Fiedler AG. Beyond #ILookLikeASurgeon. *J Thorac Cardiovasc Surg*. 2018 Jun 2. pii: S0022-5223(18)31460-0. doi: 10.1016/j.jtcvs.2018.05.038.

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Tang GHL, Zaid S, George I, Khaliq OK, Abramowitz Y, Maeno Y, Makkar RR, Jilaihawi H, Kamioka N, Thourani VH, Babaliaros V, Webb JG, Htun NM, Attinger-Toller A, Ahmad H, Kaple R, Sharma K, Kozina JA, Kaneko T, Shah P, Hirji SA, Desai ND, Anwaruddin S, Jagasia D, Herrmann HC, Basra SS, Szerlip MA, Mack MJ, Mathur M, Tan CW, Don CW, Sharma R, Gafoor S, Zhang M, Kapadia SR, Mick SL, Krishnaswamy A, Amoroso N, Salemi A, Wong SC, Kini AS, Rodés-Cabau J, Leon MB, Kodali SK. Impact of Aortic Root Anatomy and Geometry on Paravalvular Leak in Transcatheter Aortic Valve Replacement With Extremely Large Annuli Using the Edwards SAPIEN 3 Valve. *JACC Cardiovasc Interv*. Jul 23;11(14):1377-1387.

[Journal link](#)

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COLON AND RECTAL SURGERY

Presentations

Annual Meeting of the Association of Coloproctology of Great Britain and Ireland
Birmingham, UK, July 9-11, 2018

Realì C, Keller DS, Penna M, Hompes R. Low Anterior Resection Syndrome: Are We Getting to the Bottom of the Problem with TaTME? Long-term Functional and Quality of Life Outcomes After TaTME for Rectal Cancer.

Publications

Al-Mazrou AM, Baser O, Kiran RP. Alvimopan, Regardless of Ileus Risk, Significantly Impacts Ileus, Length of Stay, and Readmission After Intestinal Surgery. *J Gastrointest Surg.* 2018 Jul 9. doi: 10.1007/s11605-018-3846-2.

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Al-Mazrou AM, Hyde LZ, Suradkar K, Kiran RP. Effect of Inclusion of Oral Antibiotics with Mechanical Bowel Preparation on the Risk of Clostridium Difficile Infection After Colectomy. *J Gastrointest Surg.* 2018 Jul 2. doi: 10.1007/s11605-018-3837-3.

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Al-Mazrou AM, Baser O, Kiran RP. Propensity Score-Matched Analysis of Clinical and Financial Outcomes After Robotic and Laparoscopic Colorectal Resection. *J Gastrointest Surg.* 2018 Jun;22(6):1043-1051.

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Al-Mazrou AM, Baser O, Kiran RP. The effect of hospital familiarity with complex procedures on overall healthcare burden. *Am J Surg.* 2018 Aug;216(2):204-212.

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Al-Mazrou AM, Chiuzan C, Kiran RP. Factors influencing discharge disposition after colectomy. *Surg Endosc.* 2018 Jul;32(7):3032-3040.

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Bordeianou LG, Carmichael JC, Paquette IM, Wexner S, Hull TL, Bernstein M, Keller DS, Zutshi M, Varma MG, Gurland BH, Steele SR. Consensus Statement of Definitions for Anorectal Physiology Testing and Pelvic Floor Terminology (Revised). *Dis Colon Rectum.* 2018 Apr;61(4):421-427. doi: 10.1097/DCR.0000000000001070.

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Chand M, Keller DS, Mirnezami R, Bullock MD, Bhangu A, Moran BJ, Tekkis PP, Brown G, Mirnezami A, Berho M. Novel biomarkers for patient stratification in colorectal cancer: A review of definitions, emerging concepts, and data. *World J Gastrointest Oncol*. 2018; 10:145-158.

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DiCaprio D, Lee-Kong S, Stoffels G, Shen B, Al-Mazrou A, Kiran RP, Korelitz B, Swaminath A. Management of iatrogenic perforation during colonoscopy in ulcerative colitis patients: a survey of gastroenterologists and colorectal surgeons. *Int J Colorectal Dis*. 2018 Jul 5. doi: 10.1007/s00384-018-3112-9.

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Keller DS, Ho JW, Mercadel AJ, Ogola GO, Steele SR. Are we taking a risk with risk assessment tools? Evaluating the relationship between NSQIP and the ACS risk calculator in colorectal surgery. *Am J Surg*. 2018 Jul 19. pii: S0002-9610(18)30029-1. doi: 10.1016/j.amjsurg.2018.07.015.

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Kuritzkes BA, Pappou EP, Kiran RP, Baser O, Fan L, Guo X, Zhao B, Bentley-Hibbert S. Visceral fat area, not body mass index, predicts postoperative 30-day morbidity in patients undergoing colon resection for cancer. *Int J Colorectal Dis*. 2018 Aug;33(8):1019-1028.

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Murray AC, Markar S, Mackenzie H, Baser O, Wiggins T, Askari A, Hanna G, Faiz O, Mayer E, Bicknell C, Darzi A, Kiran RP. An observational study of the timing of surgery, use of laparoscopy and outcomes for acute cholecystitis in the USA and UK. *Surg Endosc*. 2018 Jul;32(7):3055-3063.

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GI/ENDOCRINE SURGERY

Presentations

Digestive Disease Week (DDW)

Washington, DC, June 3, 2018

Brooks C, Hu G, Gausman V, Schrope B, Sethi A, Ponerros J, Gress F, Gonda T, Association between progression of low risk IPMNs and type II diabetes mellitus.

Publications

Gausman V, Kandel P, Van Riet PA, Moris M, Kayal M, Do C, Ponerros JM, Sethi A, Gress FG, Schrope BA, Luk L, Hecht E, Jovani M, Bruno MJ, Cahen DL, Wallace MB, Gonda TA. Predictors of Progression Among Low-Risk Intraductal Papillary Mucinous Neoplasms in a Multicenter Surveillance Cohort. *Pancreas*. 2018 Apr;47(4):471-476.

[Journal link](#)

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IMMUNOLOGY/TRANSPLANTATION SURGERY

Presentations

Sykes, M. Online Lecture Series: The Immune Response to Allo- and Xenotransplantation:

Part 1: Introduction to Transplantation

Part 2: Taming and Tracking the Human Alloresponse

Part 3: Xenotransplantation

[Link](#)

Publications

Connors TJ, Baird JS, Yopes MC, Zens KD, Pethe K, Ravindranath TM, Ho SH, Farber DL. Developmental Regulation of Effector and Resident Memory T Cell Generation during Pediatric Viral Respiratory Tract Infection. *J Immunol*. 2018 Jul 15;201(2):432-439.

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Elnaggar AS, Griesemer AD, Bentley-Hibbert S, Brown RS Jr, Martinez M, Lobritto SJ, Kato T, Emond JC. Liver atrophy and regeneration in noncirrhotic portal vein thrombosis: Effect of surgical shunts. *Liver Transpl*. 2018 Jan 29. doi: 10.1002/lt.25024.

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Przybyszewski EM, Verna EC, Lobritto SJ, Martinez M, Vittorio JM, Fox AN, Samstein B, Kato T, Griesemer AD, Emond JC. Durable Clinical and Immunologic Advantage of Living Donor Liver Transplantation in Children. *Transplantation*. 2018 Jun;102(6):953-960. doi: 10.1097/TP.0000000000002110.

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Quillin RC 3rd, Bongu A, Kasper V, Vittorio JM, Martinez M, Lobritto SJ, Griesemer AD, Guarrera JV. Roux-en-Y enterolith leading to obstruction and ischemic necrosis after pediatric orthotopic liver transplantation. *Pediatr Transplant*. 2018 May;22(3):e13160. doi: 10.1111/petr.13160.

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Rosenfeld AM, Meng W, Chen DY, Zhang B, Granot T, Farber DL, Hershberg U, Luning Prak ET. Computational Evaluation of B-Cell Clone Sizes in Bulk Populations. *Front Immunol*. 2018 Jun 29;9:1472. doi: 10.3389/fimmu.2018.01472. eCollection 2018.

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PEDIATRIC SURGERY

Presentations

*65th Annual International Congress of the British Association of Paediatric Surgeon
Liverpool, UK, July 17-20, 2018*

Shieh HF, Tracy SA, Hong CR, Chalphin AV, Ahmed A, Rohrer L, Zurakowski D, Fauza DO. Transamniotic Stem Cell Therapy (TRASCET) in a Leporine Model of Spina Bifida. Oral Presentation.

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

Invited keynote address: Stylianos S. To Save a Child's Spleen: A 50-Year History.

Publications

Denning NL, Abd el-shafy I, Hagen J, Stylianos S, Prince JM, Lipskar AM. Outpatient curettage and electrocautery as an alternative to primary surgical closure for pediatric gastrocutaneous fistulae. *J Surg Res* 229:96-101, 2018. doi: 10.1016/j.jss.2018.03.037.

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Okochi S, Cheung EW, Barton S, Zenilman A, Shakoor A, Street C, Streltsova S, Chan C, Brewer MP, Middlesworth W. An Analysis of Risk Factors for Hemolysis in Children on Extracorporeal Membrane Oxygenation. *Pediatr Crit Care Med*. 2018 Jul 27. doi: 10.1097/PCC.0000000000001699.

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Shakoor A, Streltsova S, Brewer MP, Okochi S, Stylianos S, Duron V, Middlesworth W, Kadenhe-Chiweshe A. Continuous Double Volume Exchange Transfusion is a Safe Treatment for ECMO Induced Hemolysis. *J Pediatr Surg Case Reps* 32:75-78, 2018. doi.org/10.1016/j.epsc.2018.02.012

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VASCULAR SURGERY

Presentations

Massachusetts General Hospital Vascular Symposium
Boston, Massachusetts, April 26-28, 2018

Patel V: Open surgery should be primary management of abdominal aortic aneurysms in young patients

Patel V: Difficult aortic exposures for proximal/visceral disease

Society of Vascular Surgery – 2018 Annual Meeting
Boston, June 20-23, 2018

DeCarlo C, Lancaster RT, Mohebbi J, Clouse WD, Conrad MF, Patel VI. Outcomes of Surgeon-Modified Fenestrated Endografts in the Treatment of High-Risk and Acute Aortic Pathology.

O'Donnell TFX, Boitano L, Deery SE, Schermerhorn ML, Schanzer A, Green R, Takayama H, Patel VI. Open versus Fenestrated Endovascular Repair of Complex Abdominal Aortic Aneurysms.

O'Donnell TFX, Boitano L, Deery SE, Clouse WC, Siracuse JJ, Green R, Schermerhorn ML, Patel VI. Factors Associated with Postoperative Renal Dysfunction, and the Subsequent Impact on Survival After Open Juxtarenal AAA Repair.

O'Donnell TFX, Li C, Swerdlow NJ, Liang P, Pothof AB, Patel VI, Giles KA, Malas MB, Schermerhorn ML. The Weekend Effect in AAA Repair.

Polanco A, Aldailami H, Melehy A, Song J, Yu A, Green R, Takayama H, Patel VI. Hospital Volume is Associated with Improved Outcomes of Elective and Urgent Thoracoabdominal Aortic Aneurysm Repair.

Publications

Iannuzzi JC, Stapleton SM, Bababekov YJ, Chang D, Lancaster RT, Conrad MF, Cambria RP, Patel VI. Favorable Impact of TEVAR on Survival of Patients with Acute Uncomplicated Type B Aortic Dissection. *J Vasc Surg* 2018; Jun 15. pii: S0741-5214(18)30993-5. doi: 10.1016/j.jvs.2018.04.034.

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Klarin D, Cambria RP, Ergul EA, Silverman SB, Patel VI, LaMuraglia GM, Conrad MF, Clouse WD. Risk factor profile and anatomic features of previously asymptomatic patients presenting with carotid-related stroke. *J Vasc Surg*. 2018 May 24. pii: S0741-5214(18)30827-9. doi: 10.1016/j.jvs.2018.01.064.

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Komshian S, Farber A, Patel VI, Goodney PP, Schermerhorn ML, Blazick EA, Jones DW, Rybin D, Doros G, Siracuse JJ. Patients with end-stage renal disease have poor outcomes after endovascular abdominal aortic aneurysm repair. *J Vasc Surg*. 2018; Jun 23. pii: S0741-5214(18)30989-3. doi: 10.1016/j.jvs.2018.04.031.

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O'Donnell TFX, Deery SE, Schermerhorn ML, Siracuse JJ, Bertges DJ, Farber A, Lancaster RT, Patel VI. Impact of ankle-brachial index and clinical status on outcomes following lower extremity following lower extremity bypass. *Ann Vasc Surg*. 2018; Jun 6. pii: S0890-5096(18)30421-7. doi: 10.1016/j.avsg.2018.04.007.

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O'Donnell TFX, Li C, Swerdlow NJ, Liang P, Pothof AB, Patel VI, Giles KA, Malas MB, Schermerhorn ML. The Weekend Effect in AAA Repair. *Annals of Surg* epub.

Gogalniceanu P, Lancaster RT, Patel VI. Clinical Assessment of Peripheral Arterial Disease. *N Engl J Med*. 2018; 378:e24; doi: 10.1056/NEJMvcm1406358.

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