



Columbia Surgery
**Cardiovascular and
Thoracic Newsletter**



ColumbiaDoctors

NewYork-Presbyterian
Columbia University Medical Center



Letter from the Chair

September, 2016

Dear Colleague,

This has been a very productive year for clinical trials and basic scientific research.

The NIH has just awarded a \$175,435 to Henry Spotnitz, MD to develop innovative technology for Coronary Sinus Access with Strategic Pacing Systems, LLC, and a grant for \$103,235 to Isaac George, MD for related animal and human studies.

We're making new advances in catheter-based repairs of the mitral valve with several new clinical trials described below. You'll find information on a less invasive approach we are pioneering for tricuspid valve repair as well.

Our clinicians continue to get high marks for providing exceptional care. Our ExtraCorporeal Life Support Team has just received the Platinum Level ELSO Award for Excellence. This award recognizes ECLS distinguished programs worldwide.

I hope you will join us for our upcoming CME courses. Please visit us at the following site, columbiasurgeryCME.org.

Best Regards,

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

ColumbiaDoctors Receives National Recognition

ColumbiaDoctors earned national recognition for excellence in patient care, and our hospital, NewYork-Presbyterian, jumped to #6 overall in the rankings of US News & World Report, remaining the top New York metro area hospital for 16 consecutive years. The hospital was also ranked #3 in the nation for Cardiology and Heart Surgery.

Read more: <http://health.usnews.com/best-hospitals/area/ny/new-york-presbyterian-university-hospital-of-columbia-and-cornell-6210024>

FOR YOUR PATIENTS: Repairing Heart Valves without Surgery

The Structural Heart and Valve Center at NYP/Columbia is among the first to study and test new devices for valve repair and replacement. The following clinical trials promise to extend our range of options for patients not fit enough to undergo conventional surgery.

- The COAPT Trial: More Data on the MitraClip
- The GDS Accucinch: An Adjustable Solution
- The Neochord System: Artificial Muscles Support the Valve
- Advances in Mitral Valve Replacement: A Transcatheter Approach

Read more: <http://columbiasurgery.org/news/2016/09/12/repairing-heart-valves-without-surgery>

FOR YOUR PATIENTS: New Repairs for the Tricuspid Valve

Tricuspid valve regurgitation (TR) has been traditionally addressed with open surgery, but many patients with severe TR have risk factors for an open procedure. Now there is new hope on the horizon for a less invasive approach.

Dr. Rebecca Hahn of The Valve Center is leading a national trial of TriAlign, a catheter-based device for repair of the tricuspid valve.

Dr. Susheel Kodali, Director of the Structural Heart and Valve Center, is testing the Edwards FORMA transcatheter valve system—another minimally invasive way to repair the tricuspid valve.

Read more: <http://columbiasurgery.org/news/2016/09/12/new-repairs-tricuspid-valve>

Mini-Sternotomy for a Tortuous Aortic Aneurysm

In June 2016, Dr. Michael Borger repaired a 5.1cm tortuous aortic aneurysm with a mini-sternotomy, leaving the patient with a less than three-inch scar.

Read more: <http://columbiasurgery.org/news/2016/09/16/mini-sternotomy-tortuous-aortic-aneurysm>

New Data on Thymectomy for Myasthenia Gravis

Joshua Sonett, MD, Chief of General Thoracic Surgery at NYP/Columbia and Director, The Price Family Center for Comprehensive Chest Care, Lung and Esophageal Center, reports on a multicenter, randomized trial comparing thymectomy plus prednisone with prednisone alone. This study supports the use of thymectomy to improve clinical outcomes and reduce the need for immunosuppressive therapy in patients with myasthenia gravis.

Read more: <http://columbiasurgery.org/news/2016/09/16/new-data-thymectomy-myasthenia-gravis>

Presentations and Research

CARDIAC SURGERY

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 Pontailler, B Ahmad, G Williams, P Pouponneau, M Blanchy, K Thibaut, P Hommes-Schattmann, A Neffe, V Vanneau, 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 Vanneau, P Menasché, D Kalfa, A Lendlein Electrospun PPDO-Patches with Incorporated RGD Constructs.

Publications

Borger MA. Avoiding pacemaker implantation with sutureless valves: Staying "on pace" in the era of transcatheter aortic valve replacement. *J Thorac Cardiovasc Surg.* 2016 Aug;152(2):636-7. doi: 10.1016/j.jtcvs.2016.04.034.

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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.

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Dohmen PM, Binner C, Mende M, Daviewala P, Etz CD, Borger MA, Misfeld M, Eifert S, Mohr FW. Gender-Based Long-Term Surgical Outcome in Patients with Active Infective Aortic Valve Endocarditis. *Med Sci Monit.* 2016 Jul 18;22:2520-7.

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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].

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10.1016/j.athoracsur.2015.12.071.

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Girdauskas E, Owais T, Fey B, Kuntze F, Lauer B, Borger MA, Conradi L, Reichenspurner H, Kuntze T. Subannular perforation of left ventricular outflow tract associated with transcatheter valve implantation: pathophysiological background and clinical implications. *Eur J Cardiothorac Surg*. 2016 Jul 13. pii: ezw252. [Epub ahead of print]

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assist device support. *Expert Rev Med Devices*. 2016 Aug;13(8):727-40. doi: 10.1080/17434440.2016.1208557. Epub 2016 Jul 14.

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Jahangiri M, Bilkhu R, Borger M, Falk V, Helleman I, Leigh B, Mack M, Quintana E, Sousa Uva M, Westaby S, Pomar JL. The value of surgeon-specific outcome data: results of a questionnaire. *Eur J Cardiothorac Surg*. 2016 Aug;50(2):196-200. doi: 10.1093/ejcts/ezw153. Epub 2016 May 26.

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THORACIC SURGERY

Presentations

American Society for Artificial Internal Organs (ASAIO) 62nd Annual Conference, San Francisco, 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.

Publications

Agerstrand C, Abrams D, Biscotti M, Moroz L, Rosenzweig EB, D'Alton M, Brodie D, Bacchetta M. Extracorporeal Membrane Oxygenation for Cardiopulmonary Failure During Pregnancy and Postpartum. *Ann Thorac Surg.* 2016 Sep;102(3):774-9. doi: 10.1016/j.athoracsur.2016.03.005. Epub 2016 May 4.

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Diamond JM, Arcasoy S, McDonnough JA, Sonett JR, Bacchetta M, D'Ovidio F, Cantu E 3rd, Bermudez CA, McBurnie A, Rushefski M, Kalman LH, Oyster M, D'Errico C, Suzuki Y, Giles JT, Ferrante A, Lippel M, Singh G, Lederer DJ, Christie JD; Lung Transplant Body Composition Study. Adipose Gene Expression Profile Changes With Lung Allograft Reperfusion. Am J Transplant. 2016 Jul 16. doi: 10.1111/ajt.13964. [Epub ahead of print]

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VASCULAR SURGERY

Presentations

Failure Analysis Advisory Council. Jackson Hole Wyoming. August 21-24, 2016.

Morrissey, Nicholas J. Complications of Endovascular Abdominal Aortic Aneurysm Repair.

Publications

Ilonzo N, Egorova NN, Nowygrad 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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Continuing Medical Education Programs

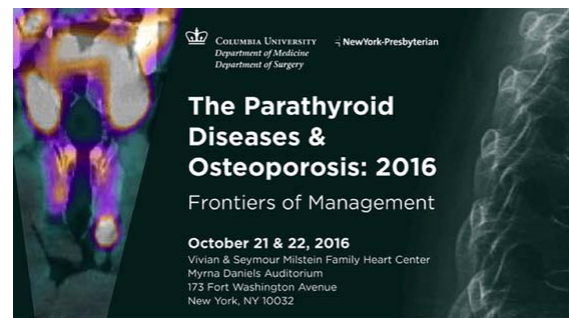
Please join us for the following continuing education programs this fall.

The Parathyroid Diseases and Osteoporosis

Leaders: John P. Bilezekian, MD and James A. Lee, MD

Read more:

<http://columbiamedicinecme.org/Endo2016.html>



SAVE THE DATE:

Innovative Therapeutics for Advanced Lung Disease, March 2, 2017

Topics will include

- Pulmonary Vascular Disease: Advanced medical therapies, CTEPH-PTE, Elective and non-elective surgery and PH: Role for a high-risk surgical team
- Chronic Respiratory Disease: COPD, LVRS and Bronchoscopy LVR, Interstitial disease
- Cancer and ESLD, Diaphragm Disorders , Reflux disease
- When Therapy Fails: Bridge to Transplantation, Anticoagulation, ECMO
- The Future: Next Generation ECMO and Artificial Lungs, Stem Cell Therapy, Bioengineering

A full agenda will be available in late October.

More information: www.ColumbiaSurgerCME.org or call 212-304-7817

Webinars

Our vast library of videos and webinars is available 24/7 for your convenience. Cardiovascular Webinars for physicians are available here: <http://columbiasurgery.org/education-training/cardiovascular-webinars>

CTEPH and PTE: A Conversation with the

Experts: <http://www.tctmd.com/multimedia/?section=/video/webcasts/2015/d37fe89795254121ac4d1ffe3b1db92d>

Left Atrial Appendage Occlusion for Stroke Prevention in Atrial Fibrillation: The Future is Now: <http://www.tctmd.com/multimedia/?section=/video/webcasts/2015/aa90622ccb04452fa6ec2251704db5ac>

Embolic Protection in TAVR - Is it Necessary? <http://www.tctmd.com/multimedia/?section=/video/webcasts/2015/1265b28598f1496f8159930e57ea082f>

New Frontiers of Treatment for Mitral Valve

Disease: <http://www.tctmd.com/multimedia/?section=/video/webcasts/2015/1906c73f687a4dbabff32cd9b53d2901>

Who is a Good Surgical Candidate in the Era of TAVR?

<http://www.tctmd.com/multimedia/?section=/video/webcasts/2015/8086600e41d247228009b66444fcb983>

Emerging Therapies for Systolic Heart Failure and Pulmonary

Hypertension: <http://www.tctmd.com/multimedia/?section=/video/webcasts/2015/5596c55ca3df45429ca286a917ef364d>

Cardiac Replacement Therapy: LVAD and/ or Transplant for Advanced Heart Failure: <http://www.tctmd.com/multimedia/?section=/video/webcasts/2015/221d3131f961469cbbd3eccd09c3fcc0e>

Patient Referral

To refer elective patients, call 212.305.7013 or 212.304.7810.

Email, info@columbiasurgery.org

Urgent and emergency transfers: 1.800.NYP.STAT

Physician Referral

Form: https://secure.cumc.columbia.edu/surgery/form/physician_referrals.html
