



COLUMBIA UNIVERSITY



ColumbiaDoctors | Surgery

*College of Physicians  
and Surgeons*

Dear Faculty and Staff,

We are pleased to share with you this second issue of the Department of Surgery research e-newsletter, now becoming a living journal of our collective work in academic medicine. We have had a robust response to our requests for content related to publications, presentations and grant awards. Our continued hope is that greater awareness of the broad range of research within the Department will stimulate cross-fertilization, provide positive role-modeling, and improve everyone's productivity.

The PubMed links 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.

Please be sure to email Paul Kurlansky ([pk2245@columbia.edu](mailto:pk2245@columbia.edu)) or myself ([crs2@cumc.columbia.edu](mailto:crs2@cumc.columbia.edu)) with your confirmed publications, presentations, and grants as we will be sending this newsletter update monthly.

Thank you,  
Craig Smith, MD

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## **AFFILIATE PROGRAMS**

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*Dr. Grau and the Valley group have been very active in exploring both the clinical and scientific substrate of coronary bypass and aortic surgery.*

### **Presentations**

Grau JB, Johnson CK, Ferrari G, Shaw RE, Brizzio ME, Zapolanski A. Impact of Pump Status and Conduit Choice in Coronary Artery Bypass Grafting: A 15-Year Follow-Up of 2,012 Propensity-Matched Patients. Presented at the 50th Annual Meeting of the Society of Thoracic Surgeons January 25-29th, 2014 — Orlando, Florida.

Grau JB , Johnson CK , Ferrari G, Shaw RE, Brizzio ME, Zapolanski A Advantages Of

Off-Pump CABG Over On-Pump CABG for In-Hospital And 30-day Adverse Events. Analysis using the STS Predicted Risk Scores In 6,666 Consecutive Patients. Presented at the 9th Annual Academic Surgical Congress (ASC) Association for Academic Surgery. Feb 04, 2014.

Ferrari G, Quackenbush J, Strobeck J, Johnson CK, Shaw R, Brizzio ME, Zapolanski A, Grau JB Genome-Wide Transcriptional Analysis of Human Left and Right Internal Mammary Arteries and their use in Coronary Artery Bypass Grafting Presented at the 9th Annual Academic Surgical Congress (ASC) Association for Academic Surgery. Feb 04, 2014.

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## **BREAST SURGERY**

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*The breast surgical group explores innovative techniques and therapies to enhance surgical resection.*

### **Publications**

Kalinsky K, Crew KD, Refice S, Xiao T, Wang A, Feldman SM, Taback B, Ahmad A, Cremers S, Hibshoosh H, Maurer M, Hershman DL. Presurgical Trial of Metformin in Overweight and Obese Patients with Newly Diagnosed Breast Cancer. *Cancer Invest.* 2014 Mar 7. [Epub ahead of print]

[Click here for the pdf file](#) or [Click here for PubMed link](#)

Schnabel F, Boolbol SK, Gittleman M, Karni T, Taфра L, Feldman S, Police A, Friedman NB, Karlan S, Holmes D, Willey SC, Carmon M, Fernandez K, Akbari S, Harness J, Guerra L, Frazier T, Lane K, Simmons RM, Estabrook A, Allweis T. A Randomized Prospective Study of Lumpectomy Margin Assessment with Use of MarginProbe in Patients with Nonpalpable Breast Malignancies. *Ann Surg Oncol.* 2014 Mar 5. [Epub ahead of print]

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Balci FL, Feldman SM. Interventional ductoscopy for pathological nipple discharge. *Ann Surg Oncol.* 2013 Oct;20(10):3352-4. doi: 10.1245/s10434-013-3181-5. Epub 2013 Aug 22.

[Click here for the pdf file](#)

Feldman SM. Surgical margins in breast conservation. *Int J Surg Oncol*. 2013;2013:136387. doi: 10.1155/2013/136387. Epub 2013 Jan 21. No abstract available.

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## **CARDIAC SURGERY**

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*The cardiac surgeons were leaders in several high profile collaborative as well as basic science projects.*

### **Publications**

Lindman BR, Pibarot P, Arnold SV, Suri RM, McAndrew TC, Maniar HS, Zajarias A, Kodali S, Kirtane AJ, Thourani VH, Tuzcu EM, Svensson LG, Waksman R, Smith CR, Leon MB. Transcatheter Versus Surgical Aortic Valve Replacement in Patients With Diabetes and Severe Aortic Stenosis at High Risk for Surgery: An Analysis of the PARTNER Trial (Placement of Aortic Transcatheter Valve). *J Am Coll Cardiol*. 2014 Mar 25;63(11):1090-9.

[Click here for the pdf file](#) or [Click here for PubMed link](#)

Acker MA, Parides MK, Perrault LP, Moskowitz AJ, Gelijns AC, Voisine P, Smith PK, Hung JW, Blackstone EH, Puskas JD, Argenziano M, Gammie JS, Mack M, Ascheim DD, Bagiella E, Moquete EG, Ferguson TB, Horvath KA, Geller NL, Miller MA, Woo YJ, D'Alessandro DA, Ailawadi G, Dagenais F, Gardner TJ, O'Gara PT, Michler RE, Kron IL; CTSN. "Mitral-valve repair versus replacement for severe ischemic mitral regurgitation." *N Engl J Med*. 2014 Jan 2;370(1):23-32. doi: 10.1056/NEJMoa1312808. Epub 2013 Nov 18. PMID: 24245543.

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Williams M, Kodali SK, Hahn RT, Humphries KH, Nkomo V, Cohen DJ, Douglas PS, Mack M, McAndrew TC, Svensson L, Thourani VH, Tuzcu EN, Weissman NJ, Kirtane AJ, Leon MB. Sex-Related Differences in Outcomes Following Transcatheter or Surgical Aortic Valve Replacement in Patients with Severe Aortic Stenosis: Insights From The PARTNER Trial. *Journal of the American College of Cardiology*, 2014 Feb 7. pii: S0735-1097(14)00453-7. doi: 10.1016/j.jacc.2014.01.036. [Epub ahead of print]

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Makkar RR, Jilaihawi H, Mack M, Chakravarty T, Cohen DJ, Cheng W, Fontana GP, Bavaria JE, Thourani VH, Herrmann HC, Pichard A, Kapadia S, Babaliaros V, Whisenant BK, Kodali SK, Williams M, Trento A, Smith CR, Teirstein PS, Cohen MG, Xu K, Tuzcu EM, Webb JG, Leon MB. Stratification of outcomes after transcatheter aortic valve replacement according to surgical inoperability for technical versus clinical reasons. *J Am Coll Cardiol*. 2014 Mar 11;63(9):901-11.

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George I, Yerebakan H, Kalesan B, Nazif T, Kodali S, Smith CR, Williams MR. Age alone should not preclude surgery: Contemporary outcomes after aortic valve replacement in nonagenarians. *J Thorac Cardiovasc Surg*. 2014 Jan 16. pii: S0022-5223(14)00057-9. doi: 10.1016/j.jtcvs.2014.01.015. [Epub ahead of print]

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Räber L, Zanchin T, Baumgartner S, Taniwaki M, Kalesan B, Moschovitis A, Garcia-Garcia HM, Justiz J, Pilgrim T, Wenaweser P, Meier B, Jüni P, Windecker S. Differential healing response attributed to culprit lesions of patients with acute coronary syndromes and stable coronary artery after implantation of drug-eluting stents: An optical coherence tomography study. *Int J Cardiol*. 2014 Feb 28. pii: S0167-5273(14)00391-X. doi: 10.1016/j.ijcard.2014.02.036. [Epub ahead of print]

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Vranckx P, Kalesan B, Stefanini GG, Farooq V, Onuma Y, Silber S, de Vries T, Jüni P, Serruys PW, Windecker S. Clinical outcome of patients with stable ischaemic heart disease as compared to those with acute coronary syndromes after percutaneous coronary intervention. *EuroIntervention*. 2014 Feb 17. pii: 20130306-01. [Epub ahead of print]

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O'Sullivan CJ, Stefanini GG, Räber L, Heg D, Taniwaki M, Kalesan B, Pilgrim T, Zanchin T, Moschovitis A, Büllsfeld L, Khatatb AA, Meier B, Wenaweser P, Jüni P, Windecker S. Impact of stent overlap on long-term clinical outcomes in patients treated with newer-generation drug-eluting stents. *EuroIntervention*. 2014 Jan 22;9(9):1076-84. doi: 10.4244/EIJV9I9A182.

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Ali ZA, Poludasu S, Qureshi YH, Krishnan P, Ali AA, Tatonetti N, Downey P, Zalewski A, Nazif T, George I, Mandava A, Baber U, Dangas G, Mehran R, Kini AS, Sharma SK. Impact of Major Bleeding on Long-Term Mortality in Anemic Versus Nonanemic Patients Undergoing Percutaneous Coronary Intervention Using Bivalirudin. *Am J*

Cardiol. 2014 Feb 12. pii: S0002-9149(14)00626-2.

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Ali AA, Downey P, Singh G, Qi W, George I, Takayama H, Kirtane A, Krishnan P, Zalewski A, Freed D, Large SR, Ashley EA, Leon MB, Bacchetta M, Ali ZA. Rat model of veno-arterial extracorporeal membrane oxygenation. *J Transl Med.* 2014 Feb 7;12:37.

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Yang KC, Yamada KA, Patel AY, Topkara VK, George I, Cheema FH, Ewald GA, Mann DL, Nerbonne JM. Deep RNA Sequencing Reveals Dynamic Regulation of Myocardial Noncoding RNAs in Failing Human Heart and Remodeling With Mechanical Circulatory Support. *Circulation.* 2014 Mar 4;129(9):1009-21.

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Eudailey K, Lewey J, Hahn RT, George I. Aggressive infective endocarditis and the importance of early repeat echocardiographic imaging. *J Thorac Cardiovasc Surg.* 2014 Mar;147(3):e26-8.

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Khalique OK, Kodali SK, Paradis JM, Nazif TM, Williams MR, Einstein AJ, Pearson GD, Harjai K, Grubb K, George I, Leon MB, Hahn RT. Aortic annular sizing using a novel 3-dimensional echocardiographic method: use and comparison with cardiac computed tomography. *Circ Cardiovasc Imaging.* 2014 Jan;7(1):155-63.

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Garan AR, Iyer V, Whang W, Mody KP, Yuzefpolskaya M, Colombo PC, Te-Frey R, Takayama H, Naka Y, Garan H, Jorde UP, Uriel N. Catheter Ablation for Ventricular Tachyarrhythmias in Patients Supported by Continuous Flow Left Ventricular Assist Devices. *ASAIO J.* 2014 Mar 7. [Epub ahead of print]

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Morrison KA, Jorde UP, Garan AR, Takayama H, Naka Y, Uriel N. Acquired von Willebrand Disease During CentriMag Support Is Associated with High Prevalence of Bleeding During Support and After Transition to Heart Replacement Therapy. *ASAIO J.* 2014 Mar-Apr;60(2):241-2.

[Click here for link](#) or [Click here for PubMed link](#)

Chung CJ, Wu C, Jones M, Kato TS, Dam TT, Givens R, Templeton DL, Maurer MS, Naka Y, Takayama H, Mancini DM, Schulze PC. Reduced handgrip strength as a marker of frailty predicts clinical outcomes in patients with heart failure undergoing ventricular assist device placement. *J Card Fail.* 2014 Feb 22. pii: S1071-9164(14)00079-7.

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Mody KP, Takayama H, Landes E, Yuzefpolskaya M, Colombo PC, Naka Y, Jorde UP, Uriel N. Acute mechanical circulatory support for fulminant myocarditis complicated by cardiogenic shock. *J Cardiovasc Transl Res.* 2014 Mar;7(2):156-64.

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Nishimura T, Ota T, Takayama H, Naka Y. Extended trans-septal and left atrial dome incision combined with Manouguian's aortotomy for complex double valve surgery. *Eur J Cardiothorac Surg.* 2014 Jan 12. [Epub ahead of print]

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Jorde UP, Uriel N, Nahumi N, Bejar D, Gonzalez-Costello J, Thomas SS, Han J, Morrison KA, Jones S, Kodali S, Hahn RT, Shames S, Yuzefpolskaya M, Colombo P, Takayama H, Naka Y. Prevalence, Significance, and Management of Aortic Insufficiency in Continuous Flow Left Ventricular Assist Device Recipients. *Circ Heart Fail.* 2014 Jan 10. [Epub ahead of print]

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Uriel N, Han J, Morrison KA, Nahumi N, Yuzefpolskaya M, Garan AR, Duong J, Colombo PC, Takayama H, Thomas S, Naka Y, Jorde UP. Device thrombosis in HeartMate II continuous-flow left ventricular assist devices: a multifactorial phenomenon. *J Heart Lung Transplant.* 2014 Jan;33(1):51-9.

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Kato TS, Colombo PC, Nahumi N, Kitada S, Takayama H, Naka Y, Di Tullio MR, Homma S, Mancini D, Jorde UP, Uriel N. Value of serial echo-guided ramp studies in a patient with suspicion of device thrombosis after left ventricular assist device implantation. *Echocardiography.* 2014 Jan;31(1):E5-9

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Ota T, Yerebakan H, Akashi H, Takayama H, Uriel N, Colombo PC, Jorde UP, Naka Y. Continuous-flow left ventricular assist device exchange: clinical outcomes. *J Heart Lung Transplant.* 2014 Jan;33(1):65-70.

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Takeda K, Naka Y, Yang JA, Uriel N, Colombo PC, Jorde UP, Takayama H. Outcome of unplanned right ventricular assist device support for severe right heart failure after implantable left ventricular assist device insertion. J Heart Lung Transplant. 2014 Feb;33(2):141-8.

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## **Awards**

*Columbia was selected as a site for the 2014 AATS Summer Intern Scholarship in cardiothoracic surgery funded by the AATS Graham Foundation. Kiersten Frenchu will study the Incidence and Risk Factors for AV Nodal Conduction Abnormalities following Mitral Valve Surgery.*

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## **COLORECTAL SURGERY**

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*This group has been extremely active in clinical and outcomes research.*

## **Publications**

Kiran RP, Ali UA, Nisar PJ, Khoury W, Gu J, Shen B, Remzi FH, Hammel JP, Lavery IC, Fazio VW, Goldblum JR. Risk and location of cancer in patients with preoperative colitis-associated dysplasia undergoing proctocolectomy. Ann Surg. 2014 Feb;259(2):302-9.

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Ozdemir Y, Kiran RP, Erem HH, Aytac E, Gorgun E, Magnuson D, Remzi FH. Functional outcomes and complications after restorative proctocolectomy and ileal pouch anal anastomosis in the pediatric population. J Am Coll Surg. 2014 Mar;218(3):328-35.

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Mallick IH, Hull TL, Remzi FH, Kiran RP. Management and Outcome of Pouch-Vaginal Fistulas After IPAA Surgery. Dis Colon Rectum. 2014 Apr;57(4):490-6.

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Erem HH, Kiran RP, Remzi FH, Vogel JD. Venous thromboembolism in colorectal surgery: skip SCIP or comply? Tech Coloproctol. 2014 Feb 22. [Epub ahead of print]

[Click here for the pdf file](#) or [Click here for PubMed link](#)

Bhangu A, Kiran RP, Brown G, Goldin R, Tekkis P. Establishing the optimum lymph node yield for diagnosis of stage III rectal cancer. Tech Coloproctol. 2014 Feb 11. [Epub ahead of print]

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Elagili F, Stocchi L, Ozuner G, Dietz DW, Kiran RP. Outcomes of percutaneous drainage without surgery for patients with diverticular abscess. Dis Colon Rectum. 2014 Mar;57(3):331-6.

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Peirce C, Burton M, Lavery I, Kiran RP, Walsh DJ, Dockery P, Coffey JC. Digital sculpting in surgery: a novel approach to depicting mesosigmoid mobilization. Tech Coloproctol. 2014 Feb 6. [Epub ahead of print]

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Kiran RP. Commentary on Young et al. Colorectal Dis. 2014 Jan;16(1):25-7. doi: 10.1111/codi.12400. No abstract available.

[Click here for the pdf file](#) or [Click here for PubMed link](#)

Gu J, Stocchi L, Kiran RP, Shen B, Remzi FH. Do clinical characteristics of de novo pouch Crohn's disease after restorative proctocolectomy affect ileal pouch retention? Dis Colon Rectum. 2014 Jan;57(1):76-82.

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Sikar Aktürk A, Abali R, Yüksel MA, Güzel EÇ, Güzel S, Kiran R. The effects of isotretinoin on the ovarian reserve of females with acne. Gynecol Endocrinol. 2014 Jan;30(1):30-3. doi: 10.3109/09513590.2013.860118.

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Warrier S, Kalady M, Kiran R, Church J. Reply to comment by Karlitz and Provencale: Results from an American Society of Colon and Rectal Surgeons survey on the management of young-onset colorectal cancer. Tech Coloproctol. 2014 Mar;18(3):315.



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Warrier SK, Kalady MF, Kiran RP, Church JM. Results from an American Society of Colon and Rectal Surgeons survey on the management of young-onset colorectal cancer. Tech Coloproctol. 2014 Mar;18(3):265-72.

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Gu J, Stocchi L, Remzi FH, Kiran RP. Total abdominal colectomy for severe ulcerative colitis: does the laparoscopic approach really have benefit? Surg Endosc. 2014 Feb;28(2):617-25.

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Nisar PJ, Turina M, Lavery IC, Kiran RP. Perineal wound healing following ileoanal pouch excision. J Gastrointest Surg. 2014 Jan;18(1):200-7.

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Wu XR, Kiran RP, Mukewar S, Remzi FH, Shen B. Diagnosis and management of pouch outlet obstruction caused by common anatomical problems after restorative proctocolectomy. J Crohns Colitis. 2014 Apr 1;8(4):270-5.

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Devarbhavi H, Singh R, Adarsh CK, Sheth K, Kiran R, Patil M. Factors that predict mortality in children with Wilson disease associated acute liver failure and comparison of Wilson disease specific prognostic indices. J Gastroenterol Hepatol. 2014 Feb;29(2):380-6.

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## **EPIDEMIOLOGY**

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*Dr. Kalesan, in addition to extensive involvement with multiple departmental investigators, addresses the timely issue of firearm-related injury.*

Kalesan B, French C, Fagan JA, Fowler DL, Galea S. Firearm-related hospitalizations and in-hospital mortality in the United States, 2000-2010. Am J Epidemiology Published

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## **GI/LIVER SURGERY**

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*The liver team reports on innovative approaches to liver resection and transplantation, as well as the increasingly important issue of radiation exposure during patient evaluation.*

### **Publications**

Kluger K, Halazun K, Barroso R, Fox A, Olsen S, Madoff D, Siegel A, Weintraub J, Susman J, Brown R, Cherqui D, Emond J. Bland- versus Chemo-Embolization of Hepatocellular Carcinoma Prior to Transplantation. *Liver Transpl.* 2014 Feb 3. doi: 10.1002/lt.23846.

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Graham JA, Samstein B, Emond JC, Kato T. Functional distal splenorenal shunt and splenic artery ligation as portal flow modulation in left lobe living donor transplantation. *Liver Transpl.* 2014 Feb;20(2):245-6. doi: 10.1002/lt.23790

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Lee SY, Mooney MA, Inra ML, Juluru K, Fox AN, Olsen SK, Brown RS Jr, Emond JC, Cherqui D, Kluger MD. Exposure to ionizing radiation during liver transplantation evaluation, waitlist time, and in the postoperative period: a cause for concern. *Hepatology.* 2014 Feb;59(2):496-504. doi: 10.1002/hep.26633.

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Agrawal MD, Mennitt KW, Zhang H, Samstein B, Kato T, Emond JC, Dutruel SP, Thimmappa ND, Prince MR. Morphine three-dimensional T1 gadoxetate MR cholangiography of potential living related liver donors. *J Magn Reson Imaging.* 2014 Mar;39(3):584-9. doi: 10.1002/jmri.24188.

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### **Presentations**

Kluger MD, Leinwand JC, Greene A, Taub RN, Chabot JA. Cytoreduction with intraoperative and dwell intraperitoneal chemotherapy for malignant peritoneal mesothelioma: an intention to treat series. Society of Surgical Oncology 67th Annual Cancer Symposium. Phoenix, AZ; March 2014.

Kluger MD, Lee SY, Laurent A, Azoulay D, Cherqui D. Central hepatectomy for centrally located liver malignancies: a safe alternative to extended hemihepatectomy. Society of Surgical Oncology 67th Annual Cancer Symposium, Phoenix, Arizona; March 2014. Selected for Poster Grand Rounds.

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## **NEW TECHNOLOGY**

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*Dr. Fowler is collaborating with the biomedical engineers to provide innovative approaches to laparoscopic surgery.*

Ding J, Goldman RE, Xu K, Allen PK, Fowler DL, Simaan N. Design and coordination kinematics of an insertable robotic effectors platform for single-port access surgery. IEEE/ASME Transactions on mechatronics 2013;18(5):1612-24.

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*Dr. Kurlansky and the Mt. Sinai (Miami) team continue to explore the scientific basis for potential applications for whole body periodic acceleration.*

Jose A. Adams, Arkady Uryash, Jorge Bassuk, Marvin A. Sackner, Paul Kurlansky. Biological Basis of Neuroprotection and Neurotherapeutic Effects of Whole Body Periodic Acceleration (pGz) Medical Hypotheses 01/2014;

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## **PEDIATRIC CARDIAC SURGERY**

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*The pediatric cardiac surgeons apply clinical experience to the complex and controversial topics of timing and technique in the repair of congenital lesions.*

## **Publications**

Anderson BR, Ciarleglio AJ, Hayes DA, Quaegebeur JM, Vincent JA, Bacha EA, Earlier Arterial Switch Operation Improves Outcomes and Reduces Costs for Neonates With Transposition of the Great Arteries J Am Coll Cardiol. 2014;63(5):481-487.

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Kalfa D, Vergnat M, Baruteau A-E, Belli E. Damus anastomosis associated with REV/Rastelli procedure allows to extend indications for anatomical repair in complex transposition of great arteries. Interact Cardiovasc Thorac Surg, 2014 Mar 4. [Epub ahead of print] doi: 10.1093/icvts/ivu049.

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Kalfa D, Mohammadi S, Kalavrouziotis D, Kharroubi M, Doyle D, Marzouk M, Metras J, Perron J. Long-term outcomes of the Ross procedure in adults with severe aortic stenosis: single-center experience with 20 years follow-up. Eur J Cardiothorac Surg, 2014 Feb 26. [Epub ahead of print]

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## **Presentations**

D Kalfa, E Bacha

Going back from the univentricular to the biventricular pathway?

35th Seminary in Pediatric Cardiology, Paris, France, March 6-7th, 2014

D Kalfa, E Bacha

Optimization of the cavopulmonary anastomoses

35th Seminary in Pediatric Cardiology, Paris, France, March 6-7th, 2014

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## **PEDIATRIC SURGERY**

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*The pediatric surgeons have been active in addressing how to minimize radiation exposure without compromising diagnostic accuracy.*

Aspelund D, Fingeret A, Gross E, Kessler D, Keung C, Thirumoorthi A, Oh PS, Behr G, Chen S, Lampl B, Middlesworth W, Kandel J and Ruzal-Shapiro C.

Ultrasonography/MRI Versus CT for Diagnosing Appendicitis. Pediatrics; originally published online March 3, 2014. DOI: 10.1542/peds.2013-2128

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## **PLASTIC SURGERY**

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*Our plastic surgeons report on a less invasive approach for management of the serious and dreaded complication of sternal wound infection.*

Preminger BA, Yaghoobzadeh Y, Ascherman JA. Management of Sternal Wounds by Limited Debridement and Partial Bilateral Pectoralis Major Myocutaneous Advancement Flaps in 25 Patients: A Less Invasive Approach. *Ann Plast Surg.* 2014;72:446-50.

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## **SURGICAL EDUCATION**

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*Dr. Fowler address critical issues in the acquisition of new surgical skills.*

Fowler, D.L., Hogle, N. The Fellowship Council: a decade of impact on surgical training. *Surg Endosc* 2013;27:3548–3554. DOI 10.1007/s00464-013-3007.

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Hogle NJ, Liu Y, Ogden RT, Fowler DL. Evaluation of surgical fellows' laparoscopic performance using global operative assessment of laparoscopic skills (GOALS). *Surg Endosc* 2014 Jan 11. [Epub ahead of print] PMID: 24414454.

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