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Dear Faculty and Staff,

We are pleased to share with you the third in our series of monthly research updates. It is gratifying to see the productivity of our department. This year the Surgical Research Competition received a record 30 grant applications; final determinations will be made later this month. Many thanks and congratulations to Dr. Spotnitz for his outstanding work on this project.

As a reminder, the PubMed links below 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.

Let's keep up the excellent work. 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 continue to send this newsletter monthly.

Thank you,  
Craig Smith, MD

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## **Publications**

Kluger MD. Laparoscopic liver resection: basic skills for peripheral lesions (manuscript and video). *Hepatobiliary Surgery and Nutrition*. 2014; 3(1):44-46. PMID 24696837. [Click here for PubMed link](#)

Kalfa D, Vergnat M, Ly M, Stos B, Lambert V, Baruteau A, Belli E. A standardized repair-oriented strategy for mitral insufficiency in infants and children: Midterm functional outcomes and predictors of adverse events. *J Thorac Cardiovasc Surg*. 2014 Feb 26. pii: S0022-5223(14)00264-5. doi: 10.1016/j.jtcvs.2014.02.057. [Epub ahead of print]

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

Shahian DM, He X, Jacobs JP, Rankin JS, Welke KF, Edwards FH, Filardo G, Fazzalari

FL, Furnary A, Kurlansky PA, Brennan JM, Badhwar V, O'Brien SM. The STS AVR + CABG Composite Score: A Report of the STS Quality Measurement Task Force. *Ann Thorac Surg*. 2014 Mar 20. pii: S0003-4975(13)02841-5.

doi:10.1016/j.athoracsur.2013.10.114. [Epub ahead of print]

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## AMERICAN ASSOCIATION OF ENDOCRINE SURGEONS

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### Presentations

Fingeret A, Alghamdi A, Kleinman D, Allendorf JD, Hassett E, Henry J, Lee JA, Zarnegar R, Fahey TJ. Recurrence rates with and without prophylactic neck dissection in papillary thyroid cancer: A multi-institutional analysis. American Association of Endocrine Surgeons, April 2014, Boston, MA.

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## THE AMERICAN COLLEGE OF CARDIOLOGY

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### Presentations

*The rapid succession of cardiovascular conferences this month—the ACC, ISHLT and the AATS—found department members at the forefront of their profession:*

Yerebakan H, Sorabella R, Najjar M, van Hassel J, Wang C, Takayama H, Naka Y, Argenziano M, Williams MR, Smith C, George I. <sup>3</sup>Pre-Operative Renal Disease Progressively Impacts Long-Term Survival Following Aortic Valve Surgery.<sup>2</sup> Annual Scientific Sessions of the American College of Cardiology, Washington, D.C., April 2014.

Yerebakan H, Sorabella R, Najjar M, Mannan A, Wang C, Takayama H, Naka Y, Argenziano M, Williams MR, Smith C, George I. <sup>3</sup>Acute Kidney Injury After Aortic Valve Replacement: Incidence, Risk Factors and Outcomes.<sup>2</sup> Annual Scientific Sessions of the American College of Cardiology, Washington, D.C., April 2014.

Yerebakan H, Sorabella R, Najjar M, Vandenberg J, Wang C, Takayama H, Naka Y, Argenziano M, Williams MR, Smith C, George I. Transfusion of Red Blood Cells: The Impact on Survival After Aortic Valve Replacement at Ten-Year Follow-up.<sup>2</sup> Annual

Scientific Sessions of the American College of Cardiology, Washington, D.C., April 2014.

Yerebakan H, Sorabella R, Najjar M, Vandenberg J, Wang C, Takayama H, Naka Y, Argenziano M, Williams MR, Smith C, George I. <sup>3</sup>Impact of Uncorrected Concomitant Moderate Functional Mitral Regurgitation on Survival in Patients Undergoing Aortic Valve Replacement.<sup>2</sup> Annual Scientific Sessions of the American College of Cardiology, Washington, D.C., April 2014.

Yerebakan H, Sorabella R, Najjar M, Mannan A, Wang C, Takayama H, Naka Y, Argenziano M, Williams MR, Smith C, George I. <sup>3</sup>Prognostic Implications of Tricuspid Regurgitation in Patients Undergoing Aortic Valve Replacement.<sup>2</sup> Annual Scientific Sessions of the American College of Cardiology, Washington, D.C., April 2014.

Sorabella R, Yerebakan H, Najjar M, Choi V, Wang C, Takayama H, Naka Y, Argenziano M, Williams MR, Smith C, George I. <sup>3</sup>Early and Late Mortality in patients with Low Body Weight undergoing aortic valve replacement.<sup>2</sup> Annual Scientific Sessions of the American College of Cardiology, Washington, D.C., April 2014.

Sorabella R, Yerebakan H, Najjar M, Hossain M, Wang C, Takayama H, Naka Y, Williams MR, Argenziano M, Smith C, George I. <sup>3</sup>Residual Tricuspid Regurgitation Following Tricuspid Valve Repair During Concomitant Valve Surgery Does Not Worsen Overall Survival.<sup>2</sup> Annual Scientific Sessions of the American College of Cardiology, Washington, D.C., April 2014.

Najjar M, Yerebakan H, Sorabella R, Hossain M, Wang C, Takayama H, Naka Y, Williams MR, Argenziano M, Smith C, George I. <sup>3</sup>Dynamics of Kidney Function Following Aortic Valve Replacement Using CKD-EPI based GFR Estimation.<sup>2</sup> Annual Scientific Sessions of the American College of Cardiology, Washington, D.C., April 2014.

Justin Fried, Ben Lerman, Ming Liao, Jacob Kriegel, Eelin Wilson, Jean-Michel Paradis, Philip Green, Ajay Kirtane, Tamim Nazif, Mathew Williams, Isaac George, Martin Leon, Susheel Kodali. Acute Kidney Injury Following Transcatheter Aortic Valve Replacement Is Associated With an Increased risk of Chronic Kidney Disease at 1 Year. Annual Scientific Sessions of the American College of Cardiology, Washington, D.C., April 2014.

Jean-Michel Paradis, Marina Urena, Mathew Williams, Philippe Genereux, Laura Lasalle, Ke Xu, Tamim Nazif, Rebecca Hahn, Isaac George, Omar Khalique, Kishore Harjai, Darshan Doshi, Robert DeLarochelière, Eric Dumont, Daniel Doyle, Martin Leon, Josep Rodes-Cabau, Susheel Kodali. Impact of Percutaneous Coronary Intervention Within 6 Months Prior to Transcatheter Aortic Valve Replacement: A

Multicenter Center Study with Central Angiographic Core Laboratory Analysis. Annual Scientific Sessions of the American College of Cardiology, Washington, D.C., April 2014.

Se-Jung Yoon, Omar Khalique, Susheel Kodali, Mathew Williams, Tamim Nazif, Isaac George, Hemal Gada, Torsten Vahl, Martin Leon, Rebecca Hahn. Early Improvement in Pulmonary Hypertension and Right Ventricular Function in Transcatheter Compared to Surgical Aortic Valve Replacement. Annual Scientific Sessions of the American College of Cardiology, Washington, D.C., April 2014.

Estibaliz Castillero, Hirokazu Akashi, Halit Yerebakan, Robert Sorabella, Marc Najjar, Klara Pendrak, Catherine Wang, Ziad Ali, Donna Mancini, Jeannine D'Armiento, H. Lee Sweeney, P. Christian Schulze, Isaac George. Differing Patterns of Myostatin Signaling Regulate Hypertrophy in Severe Aortic Stenosis and Hypertrophic Cardiomyopathy. Annual Scientific Sessions of the American College of Cardiology, Washington, D.C., April 2014.

Kerry A. Donegan, Omar Khalique, Susheel Kodali, Mathew Williams, Leo Marcoff, Tamim Nazif, Isaac George, Hemal Gada, Torsten Vahl, Rebecca Hahn. Accuracy of the Single-Cycle Length Method for Calculating Aortic Valve Area in Non-Sinus Rhythms. Annual Scientific Sessions of the American College of Cardiology, Washington, D.C., April 2014.

Estibaliz Castillero, Hirokazu Akashi, Ruiping Ji, Klara Pendrak, Marc Najjar, Robert Sorabella, Halit Yerebakan, Tomoe Shiomi, Catherine Wang, Ziad Ali, Donna Mancini, Jeannine D'Armiento, H. Lee Sweeney, P. Christian Schulze, Isaac George. Myostatin Inhibition after Experimental Heart Failure Improves Cardiac Function and Muscle Wasting. Annual Scientific Sessions of the American College of Cardiology, Washington, D.C., April 2014.

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## **THE INTERNATIONAL SOCIETY OF HEART AND LUNG TRANSPLANT**

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### **Presentations**

Yerebakan H, Naka Y, Sorabella R, Hill SC, Takeda K, Schulze P, George I, Yuzefpolskaya M, Farr MA, Uriel N, Colombo PC, Jorde UP, Mancini DM, Takayama H. Amiodarone Treatment Prior to Heart Transplantation Is Associated with Acute Graft Dysfunction and Early Mortality: A Propensity-Matched Comparison, International Society for Heart and Lung Transplantation 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Garan AR, Mody KP, Levine AP, Fried J, Dionizovik-Dimanovski M, Yuzefpolskaya

M, Colombo PC, Takayama H, Naka, Restaino S, Mancini DM, Jorde UP, Uriel N. Atrial Fibrillation in Patients Supported by Continuous-Flow Left Ventricular Assist Device, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Truby L, Hongo T, Mundy L, Kirtane A, Beck J, Landes E, Yuzefpolskaya M, Uriel N, Colombo PC, Jorde UP, Kodali S, Takeda K, Naka Y, Takayama H. Cardiac Arrest in the Era of Mechanical Circulatory Support: A Single Center Experience with Extracorporeal Cardiopulmonary Resuscitation, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Sorabella R, Takayama H, DeRoo S, Yerebakan H, Ikeda S, Weiss E, Yang J, Takeda K, George I, Yuzefpolskaya M, Uriel N, Colombo PC, Jorde UP, Mancini DM, Naka Y. Comparison of Heart Replacement Therapy in Patients Over 65 Years Old, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Takayama H, Kai M, Camacho M, Kalesan B, Jorde U, Truby L, Gass A, Spielvogel D, Baran D, M Zucker M, Sun B. Contemporary Outcome of Mechanical Circulatory Support Therapy: Analysis of Multicenter Registry, RESCUE, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Garan AR, Levin AP, Mody KP, Rao S, Dionizovik-Dimanovski M, Colombo PC, Yuzefpolskaya M, Takayama H, Naka Y, Restaino S, Mancini DM, Uriel N, Jorde UP. Continuous Flow LVAD Support and Immune Suppression, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Mody KP, Duong J, Dionizovik-Dimanovski M, Levin AP, Garan AR, Fried J, Takayama H, Yuzefpolskaya M, Colombo PC, Restaino SW, Naka Y, Mancini DM, Jorde UP, Uriel N. Five -Fold Increase in Antibody-Mediated Rejection (AMR) Post-Heart Transplant in Patients Developing Allosensitization During Left Ventricular Assist Device Support (LVAD), International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Dionizovik-Dimanovski M, Mody KP, Levin AP, Garan AR, Yuzefpolskaya M, Colombo PC, Takayama H, Naka Y, Jorde UP, Bokhari S, Uriel U. Global Myocardial Viability by Thallium-201 Redistribution Imaging Can Predict Successful Weaning from Short Term Mechanical Support, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

K. J. Clerkin, S. S. Thomas, J. Haythe, P. C. Schulze, M. Farr, H. Takayama, U. P. Jorde, N. Uriel, S. W. Restaino, Y. Naka, D. M. Mancini. Increasing Use of Mechanical

Circulatory Support as a Bridge to Cardiac Retransplantation, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Uriel N, Levin AP, Yuzefpolskaya M, Garan AR, Mody KP, Colombo PC, Takayama H, Naka Y, Jorde UP. Initial Post Approval Performance of the Heartware LVAD as Bridge to Transplantation: An Analysis of the UNOS Database, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Thomas SS, Hahn RT, Kodali S, Khalique O, Murthy S, Colombo PC, Takayama H, Uriel N, Naka Y, Jorde UP. Management of LVAD-Related Aortic Insufficiency by Ramp-Based Invasive Hemodynamics and Transesophageal Echocardiography, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Yuzefpolskaya M, Godier-Furnemont A, Levin AP, Dionizovik-Dimanovski M, Takayama H, Naka Y, Uriel N, Colombo PC, Vunjak-Novakovic G, Jorde UP. Myocardial Microvascular Density Increases After Chronic Continuous Flow Left Ventricular Assist Device (CF-LVAD) Support, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Landes EL, Truby L, Mundy L, Yang J, Kirtane A, Mongero L, Yuzefpolskaya M, Uriel N, Colombo PC, Jorde UP, Takeda K, Kodali SK, Naka Y, Takayama H. Partial Flow with 15F Arterial Cannula Provides Sufficient Circulatory Support in Venous-Arterial Extracorporeal Membrane Oxygenation, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Levin A, Singh RK, Fried J, Richmond ME, Zuckerman WA, Garan AR, Mody KP, Takayama H, Yuzefpolskaya M, Colombo PC, Dionizovik-Dimanovski M, Naka Y, Addonizio LJ, Jorde UP, Uriel N. [Post-Transplant Outcomes of Pediatric Patients Bridged with Continuous Flow Left Ventricular Assist Devices](#), International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Fried J, Levin AP, Dionizovik-Dimanovski M, Colombo P, Yuzefpolskaya M, Mody KP, Garan AR, Takayama H, Naka Y, Jorde UP, Uriel N. [Prior Hematological Disorders Carry a High Morbidity and Mortality in Patients Supported with Continuous Flow Left Ventricular Assist Devices](#), International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Yerebakan H, Sorabella R, Najjar M, Castellero E, Choi V, Jorde UP, Farr MA, Mancini DM, Naka Y, Maurer MS, Schulze P, Takayama H, George I. Reduced Long-term Outcomes after Orthotopic Heart Transplantation in Septuagenarians, International

Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Cagliostro B, Levin AP, Parkis G, Stewart S, Mody KP, Takayama H, Naka Y, Colombo PC, Yuzefpolskaya M, Jorde UP, Uriel N. Reduction of Drive Line Infection in Continuous Flow Assist Devices: Use of Standard Kit Including Silver Dressing and Anchoring Device, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Uriel N, Levin AP, Mody KP, Dionizovik-Dimanovski M, Garan AR, Yuzefpolskaya M, Takayama H, Colombo PC, Naka Y, Jorde UP. [Relationship Between Speed and Left Ventricular Size in HVAD Patients: Lessons from the HVAD Ramp Test Study](#), International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Mody KP, Dionizovik-Dimanovski M, Duong J, Levin AP, Garan AR, Colombo PC, Takayama H, Yuzefpolskaya M, Restaino SW, Naka Y, Mancini DM, Jorde UP, Uriel N. Safety and Efficacy of Pre Transplant Desensitization of Patients Supported by CF-LVADs, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Thomas SS, Clerkin KJHaythe J, Schulze PC, Farr M, Takayama H, Jorde UP, Uriel N, Restaino SW, Naka Y, Mancini DM. Safety of Mechanical Circulatory Support as a Bridge to Cardiac Replantation, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Mody KP, Thomas S, Yuzefpolskaya Takayama H, Colombo PC, Naka Y, Jorde UP, Uriel N. Step-Wise Approach to Myocarditis Complicated by Cardiogenic Shock, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Godier-Furnemont A, Yuzefpolskaya M, Levin AP, Dionizovik-Dimanovski M, Colombo PC, Takayama H, Uriel N, Naka Y, Vunjak-Novakovic G., Jorde UP. Stromal-Derived Factor-1 (SDF-1) Expression is Downregulated After Chronic Continuous Flow Left Ventricular Assist Device (CF-LVAD) Support, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Dionizovik-Dimanovski M, Levin AP, Mody KP, Simonich E, Garan AR, Yuzefpolskaya M, Takayama H, Naka Y, Colombo PC, Uriel N, Jorde UP. Strong Correlation Between Alere Home INR and Core Lab INR in Patients Supported with CF-LVAD, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Levin AP, Uriel N, Ota T, Dionizovik-Dimanovski M, Mody KP, Garan AR, Colombo

PC, Yuzefpolskaya M, Naka Y, Takayama H, Jorde UP. Subcostal vs. Sternotomy Device Exchanges: Comparison of Long-Term Mortality and Re-Exchange, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Truby L, Mundy L, Hongo T, Kirtane A, Mongero L, Landes E, Yuzefpolskaya M, Uriel N, Colombo PC, Jorde UP, Takeda K, Naka Y, Takayama H. [The Columbia Experience of 163 Patients with Venoarterial Extracorporeal Membranous Oxygenation for Refractory Cardiogenic Shock](#), International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Farr MA, Mitchell J, Lippel M, Kato T, Dove L, Murthy S, Jorde U, Takayama H, Emond J, Naka Y, Mancini D, Lefkowitz J, Schulze P. The Combination of Liver Biopsy With MELD-XI Scores for Post-Heart Transplant Outcome Prediction in Patients With Advanced Heart Failure and Suspected Liver Dysfunction, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Levin AP, Fried J, Mody KP, Yuzefpolskaya M, Dionizovik-Dimankovski M, Takayama H, Colombo PC, Garan AR, Naka Y, Uriel, Jorde UP. The Impact of Aortic Valve Opening Status on Bleeding and Thrombotic Risk in Patients with CF-LVAD, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

Singh RK, Levin AP, Fried J, Richmond ME, Garan AR, Zuckerman WA, Takayama H, Mody KP, Dionizovik-Dimankovski M, Naka Y, Yuzefpolskaya M, Colombo PC, L. J. Addonizio LJ, U. P. Jorde UP, N. Uriel N. Wait List Outcomes of Pediatric Patients Bridged to Heart Transplantation on Continuous Flow Left Ventricular Assist Devices, International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, April 10-13, 2014.

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## **THE AMERICAN ASSOCIATION FOR THORACIC SURGERY**

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### **Presentations**

Branchetti E, Poggio P, Grau JB, Shaw R, Desai ND, Lai EK, Gorman RC, Gorman JH, Bavaria JE, Ferrari G. Circulating sRAGE identifies Bicuspid Aortic Valve patients and Associated Aortopathies in a surgical cohort of 135 patients. Aortic Symposium of the American Association for Thoracic Surgery, New York, N.Y., April 24-25, 2014.

Yerebakan H, Takayama H, R, Sorabella R, Weiss E, DeRoo S, Najjar M, Vandenberghe J, Williams MR, Naka Y, Argenziano M, Smith C, George I Stewart A. <sup>3</sup>Del Nido



Cardioplegia Administration During Valve-Sparing Aortic Root Replacement.<sup>2</sup> Aortic Symposium of the American Association for Thoracic Surgery, New York, N.Y., April 24-25, 2014.

Yerebakan H, Takayama H, R, Sorabella R, Weiss E, DeRoo S, Najjar M, Vandenberg J, Williams MR, Naka Y, Argenziano M, Smith C, George I Stewart A. <sup>3</sup>Valve-Sparing Aortic Root Replacement Provides Acceptable Outcomes in Patients With Bicuspid Aortic Valve.<sup>2</sup> Aortic Symposium of the American Association for Thoracic Surgery, New York, NY. April 24-25, 2014.

Lancey R, Kurlansky P, Argenziano M, Coady M, Dunton R, Greelish J, Nast E, Robbins SG, Scribani M, Tingley J, Williams T, Zapolansky A, Smith C. <sup>3</sup> Uniform Standards Do Not Apply to Readmission Following Coronary Artery Bypass Surgery: A Multi-institutional Study.<sup>2</sup> Annual Scientific Sessions of the American Association for Thoracic Surgery, Toronto, CA, May 2014.

D Kalfa D, G Krishnamurthy G, J Duchon J, M Najjar M, S Levasseur S, J Quaegebeur J, E Bacha E Although weight remains a risk factor, neonatal cardiac repair at less than 2.5kg yields excellent results. Annual Scientific Sessions of the American Association for Thoracic Surgery, Toronto, CA, May 2014.

Thourani VH, William MR, Kodali SK, O'Neill WW, Babaliros V, Dewey TM, Mack MJ, Szeto W, Webb JS, Tuzcu EM, Bavaria JE, Herrmann HC, Pichard AD, Douglas PS, Hahn RT, Fischbein M, Akin JJ, McAndrews T, Suri RM, Ailawadi G, Smith CR, Leon MB, Svensson. Prognostic value of preoperative B-Type natriuretic peptide on mortality in transapical aortic valve replacements: Results from the PARTNER trial. American Association for Thoracic Surgery, Toronto, April, 2014.

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