Condensed Contents
Pages A3-A4, A6-A7

Table of Contents
Pages A11-A14, A16, A18, A20-A22, A24

Scientific Achievement Award

Scientific Achievement Award: Richard D. Weisel, MD
Pages 1-2
Alec Patterson

Editorials

The times they are a-changin'
Pages 3-4
Lawrence H. Cohn

Editorial Staff
Pages 5-7

Would I do it again? Evolution to a new training paradigm
Pages 8-9
Michael Anthony Maddaus

Sterile cockpit or not: It's all about team and effective communication
Pages 10-11
David J. Rosinski

Expert Commentary

Controlled reperfusion after ischemia may be the unifying recovery denominator
Pages 12-18.e2
Gerald D. Buckberg

General Thoracic Surgery
Four-arm robotic lobectomy for the treatment of early-stage lung cancer
Pages 19-25
Giulia Veronesi, Domenico Galetta, Patrick Maisonneuve, Franca Melfi, Ralph Alexander Schmid, Alessandro Borri, Fernando Vannucci, Lorenzo Spaggiari

Risk factor analysis for postoperative acute respiratory distress syndrome and early mortality after pneumonectomy: The predictive value of preoperative lung perfusion distribution
Pages 26-31
Joon Bum Kim, Sei Won Lee, Seung-Il Park, Yong Hee Kim, Dong Kwan Kim

A prospective, randomized trial comparing BioGlue and Vivostat for the control of alveolar air leak
Pages 32-38
Elizabeth Belcher, Michael Dusmet, Simon Jordan, George Ladas, Eric Lim, Peter Goldstraw

Double-bar application decreases postoperative pain after the Nuss procedure
Pages 39-44.e2
Tomohisa Nagaso, Junpei Miyamoto, Kiyokazu Kokaji, Ryohei Yozu, Hua Jiang, HongMei Jin, Tamotsu Tamaki

A randomized, controlled study of amiodarone for prevention of atrial fibrillation after transthoracic esophagectomy
Pages 45-51
James E. Tisdale, Heather A. Wroblewski, Donna S. Wall, Karen M. Rieger, Zane T. Hammoud, Jerry V. Young, Kenneth A. Kesler

Acquired Cardiovascular Disease

Endovascular repair of aortic arch lesions in high-risk patients or after previous aortic surgery: Midterm results
Pages 52-58
Ludovic Canaud, Kheira Hireche, Jean-Philippe Berthet, Pascal Branchereau, Charles Marty-Ané, Pierre Alric

Determinants of in-hospital and long-term surgical outcomes after repair of postinfarction ventricular septal rupture
Pages 59-65
Satsuki Fukushima, Peter J. Tesar, Homayoun Jalali, Andrew J. Clarke, Hemant Sharma, Jivesh Choudhary, Harry Bartlett, Peter G. Pohlner
To graft or not to graft? Do coronary artery characteristics influence early outcomes of coronary artery bypass surgery? Analysis of coronary anastomoses of 5171 patients
Pages 66-72.e1
Dumbor L. Ngaage, Imranullah Hashmi, Steven Griffin, Michael E. Cowen, Alexander R. Cale, Levent Guvendik

Long-term (5- to 20-year) patency of the radial artery for coronary bypass grafting
Pages 73-79.e2
Paul Achouh, Redha Boutekadjirt, Daniel Toledano, Nadjib Hammoudi, Jean-Yves Pagny, Pascal Goube, Khaled Ould Isseloum, Bernard Lancelin, Régis Fouquet, Christophe Acar

Influence of timing of intraaortic balloon placement in cardiac surgical patients
Pages 80-85
Jayshree D. Lavana, John F. Fraser, Susan E. Smith, Lesley Drake, Peter Tesar, Daniel V. Mullany

Quality of mitral valve repair: Median sternotomy versus port-access approach
Pages 86-90
Ehud Raanani, Dan Spiegelstein, Leonid Sternik, Sergey Preisman, Yaron Moshkovitz, Aram K. Smolinsky, Amihai Shinfeld

Mortality after coronary artery revascularization of patients with rheumatoid arthritis
Pages 91-96
Joji J. Varghese, Sushma Koneru, Steven L. Scaife, Whitney E. Zahnd, Mark L. Francis

A new approach to interventional atrioventricular valve therapy
Pages 97-102
Andreas Goetzenich, Guido Dohmen, Nima Hatam, Thorsten Deichmann, Christoph Schmitz, Andreas H. Mahnken, Rüdiger Autschbach, Jan Spillner

Nonelective cardiac surgery in the elderly: Is it justified?
Pages 103-109.e1
Ravi K. Ghanta, Prem S. Shekar, Siobhan McGurk, Donna M. Rosborough, Sary F. Aranki

How much of the intraaortic balloon volume is displaced toward the coronary circulation?
Pages 110-116
Christina Kolyva, George M. Pantalos, John R. Pepper, Ashraf W. Khir

How much septal–lateral mitral annular reduction do you get with new ischemic/functional mitral regurgitation annuloplasty rings?
Wolfgang Bothe, Julia C. Swanson, Neil B. Ingels, D. Craig Miller

**Changes in cardiac and cognitive function and self-reported outcomes at one year after coronary artery bypass grafting**

Pages 122-128
Lars Mathisen, Per Snorre Lingaas, Marit Helen Andersen, Per Kristian Hol, Per Morten Fredriksen, Kjetil Sundet, Berit Rokne, Astrid Klopstad Wahl, Erik Fosse

**Congenital Heart Disease**

**Fenestration during Fontan palliation: Now the exception instead of the rule**

Pages 129-136

**Discussion**

Pages 134-136

**Chronologic changes in P-wave characteristics after the Fontan procedure: The effect of surgical modification**

Pages 137-143
Masahiro Koh, Hideki Uemura, Akiko Kada, Koji Kagisaki, Ikuo Hagino, Toshikatsu Yagihara

**Discussion**

Page 143

**Genetic factors are important determinants of impaired growth after infant cardiac surgery**

Pages 144-149

**Patent ductus arteriosus ligation is associated with impaired left ventricular systolic performance in premature infants weighing less than 1000 g**

Pages 150-157
Patrick J. McNamara, Lilian Stewart, Sandesh P. Shivananda, Derek Stephens, Arvind Sehgal

**Early and delayed atrioventricular conduction block after routine surgery for**
congenital heart disease
Pages 158-160
Angela Lin, William T. Mahle, Patricio A. Frias, Peter S. Fischbach, Brian E. Kogon, Kirk R. Kanter, Paul M. Kirshbom

Cardiothoracic Transplantation

A United Network for Organ Sharing analysis of heart transplantation in adults with congenital heart disease: Outcomes and factors associated with mortality and retransplantation
Pages 161-168
Tara Karamlou, Jennifer Hirsch, Karl Welke, Richard G. Ohye, Edward L. Bove, Eric J. Devaney, Robert J. Gajarski

The impact of bridge-to-transplant ventricular assist device support on survival after cardiac transplantation
Pages 169-173
David A. Bull, Bruce B. Reid, Craig H. Selzman, Rebecca Mesley, Stavros Drakos, Steven Clayson, Greg Stoddard, Edward Gilbert, Josef Stehlik, Feras Bader, Abdallah Kfoury, Deborah Budge, David D. Eckels, Anne Fuller, Dale Renlund, Amit N. Patel

Post–cardiac transplant survival after support with a continuous-flow left ventricular assist device: Impact of duration of left ventricular assist device support and other variables
Pages 174-181
Ranjit John, Francis D. Pagani, Yoshifumi Naka, Andrew Boyle, John V. Conte, Stuart D. Russell, Charles T. Klodell, Carmelo A. Milano, Joseph Rogers, David J. Farrar, O. Howard Frazie

Discussion
Pages 180-181

Perioperative Management

Effect of β-blocker use on outcomes after discharge in patients who underwent cardiac surgery
Pages 182-187.e1
Anita Y.M. Chan, Finlay A. McAlister, Colleen M. Norris, David Johnstone, Jeffrey A. Bakal, David B. Ross and Alberta Provincial Program for Outcome Assessment in Coronary Heart Disease (APPROACH) Investigators

Leukoreduction program for red blood cell transfusions in coronary surgery: Association with reduced acute kidney injury and in-hospital mortality
Evolving Technology/Basic Science

Technical considerations to avoid pitfalls during transapical aortic valve implantation
Pages 196-202
Daniel R. Wong, Jian Ye, Anson Cheung, John G. Webb, Ronald G. Carere, Samuel V. Lichtenstein

Efficacy of a novel bipolar radiofrequency ablation device on the beating heart for atrial fibrillation ablation: A long-term porcine study
Pages 203-208

Sustained local application of epidermal growth factor to accelerate reepithelialization of tracheal grafts
Pages 209-215
Jinbo Zhao, Yong Han, Zhibo Liang, Zhipei Zhang, Qiang Lu, Xiaolong Yan, Xiaofei Li

In vitro functional comparison of therapeutically relevant human vasculogenic progenitor cells used for cardiac cell therapy
Pages 216-224.e4
Yan Zhang, Serena Wong, Jessica Laflèche, Suzanne Crowe, Thierry G. Mesana, Erik J. Suuronen, Marc Ruel

Loss of p53, rather than beta-catenin overexpression, induces survivin-mediated resistance to apoptosis in an esophageal cancer cell line
Pages 225-232
Elizabeth Chang, James Donahue, Anna Smith, John Hornick, Jaladanki N. Rao, Jian-Ying Wang, Richard J. Battafarano

Dor procedure for dyskinetic anteroapical myocardial infarction fails to improve contractility in the border zone
Pages 233-239.e4
Kay Sun, Zhihong Zhang, Takamaro Suzuki, Jonathan F. Wenk, Nielen Stander, Daniel R. Einstein, David A. Saloner, Arthur W. Wallace, Julius M. Guccione, Mark B. Ratcliffe

Brief Technique Reports
Balloon sizing in surgical ventricular restoration: What volume are we targeting?
*Pages 240-241*
Ellen A. ten Brinke, Robert J. Klautz, Paul Steendijk

Is pneumonectomy mandatory after transection of the left main pulmonary artery?
*Pages 242-243*
Ugonna N. Ihekweazu, William D. Travis, Raja M. Flores

Mediastinoscopy-assisted minimally invasive closure of a bronchopleural fistula: A new technique to manage an old problem
*Pages 244-245*
Shawn S. Groth, Jonathan D'Cunha, Natasha M. Rueth, Rafael S. Andrade, Michael A. Maddaus

Transcatheter valve-in-valve implantation for the treatment of stentless aortic valve dysfunction
*Pages 246-248*
Josep Rodés-Cabau, Eric Dumont, Daniel Doyle, Jerôme Lemieux

Balloon-guided, tapered, Polyflex stent guidance: An atraumatic technique for successful stent placement through tight, rigid airway stenoses
*Pages 248-249.e1*
Moishe Liberman, John C. Wain

Online Only: Brief Clinical Reports

Intraoperative assessment after pediatric cardiac surgical repair: Initial experience with C-arm angiography
*Pages e1-e3*
Jeffrey H. Shuhaiber, Lisa Bergersen, Frank Pigula, Sitaram Emani, Doff McElhinney, Audrey Marshall, Francis Fynn-Thompson, Emile A. Bacha

Mitral and tricuspid valve repair 21 years after cardiac transplantation
*Pages e3-e4*
Joss Fernandez, Djurabek Babadjanov, Robert Saeid Fariva

Agenesis of the left carotid artery in the right aortic arch with Kommerell diverticulum
*Pages e5-e7*
Atsushi Nakahira, Hidekazu Hirai, Yasuyuki Sasaki, Shigefumi Suehiro

Early thrombus in a HeartMate II left ventricular assist device: A potential cause of
hemolysis and diagnostic dilemma
Pages e7-e8
Castigliano M. Bhamidipati, Gorav Ailawadi, James Bergin, John A. Kern

Caseous calcification of the anterior mitral valve annulus presenting as intracardiac mass
Pages e9-e10
Sotiris C. Stamou, Alan C. Braverman, Nicholas T. Kouchoukos

Mitral valve lipomatous hamartoma infiltrating myocardium
Pages e11-e12
Aarne Jyrala, Gregory L. Kay

Fontan completion in patient with pulmonary artery sling associated with hypoplastic left heart syndrome
Pages e12-e13
Yasuhiro Kotani, Kozo Ishino, Osami Honjo, Shunji Sano

Incidental discovery of an ascending aortic thrombus: Should this patient undergo surgical intervention?
Pages e14-e16
Subhasis Chatterjee, Susan S. Eagle, David H. Adler, John G. Byrne

Mechanical left ventricular unloading to prevent recurrent myocardial rupture
Pages e16-e17
Stephen Westaby, Vipin Mehta, Fidelma Flynn, Neil Wilson

Ascending aortic injury caused by a fractured sternal wire 28 years after surgical intervention of pectus excavatum
Pages e18-e20
Shigetoshi Mieno, Hideki Ozawa, Takahiro Katsumata

Mediastinoscopy-assisted ligation of an aberrant right subclavian artery through a supraclavicular approach
Pages e20-e21
Narain Moorjani, Nancy Mohsen, Percy Boateng

Letters to the Editor

Standardization of transplant procurement procedures
Phil Botha, Stephen C. Clark, John H. Dark

Reply to the Editor
Pages 250-251
Michael K. Pasqu

How can we prevent functional mitral stenosis after surgery?
Pages 251-252
Yasushige Shingu, Yoshiro Matsui

Reply to the Editor
Pages 252-253
Yutaka Otsuji, Ryuzo Sakata, Kayoko Kubota, Robert A. Levine, Chuwa Tei

Effect of cyclophosphamide on myocardial ischemia/reperfusion injury in rats
Page 253
Bikash Medhi, Sharonjeet Kaur, Ajay Prakash

Reply to the Editor
Page 254
Yuan-gang Qiu

The victim of thoracic gunshot: Assessment of the patient and management of pulmonary artery bullet embolism
Page 254
Filipe Moreira de Andrade, Omar Moté Abou Mourad, Luiz Felipe Judice

Reply to the Editor
Pages 254-256
Orhan Saim Demirtürk, Hasan Hakan Atalay, Dalokay Kiliç, Rıza Türköz

Meeting Proceedings

Highlights from the 59th Annual Scientific Sessions of the American College of Cardiology, March 13 to 17, 2010, Atlanta, Georgia
Pages 257-259
Frederic S. Resnic, Akshay Desai

Meetings and Courses
Meetings and Courses
Page 260

Announcements
The American Association for Thoracic Surgery

Annual Meeting Recap
Pages 261-262

AATS Applications for Membership Now Available Online
Page 262

AATS Meetings and Sponsored Events www.aats.org
Pages 262-263

2010 Heart Valve Summit: Medical, Surgical, and Interventional Decision Making
Page 263

AATS Online Award Applications Now Available at www.aats.org
Pages 263-264

Surgery Journal Editors Group

Consensus Statement on the Adoption of the COPE Guidelines
Page 264

The Western Thoracic Surgical Association

Applications for Membership
Page 265

WTSA 36th Annual Meeting
Page 265

The American Board of Thoracic Surgery

Notices
Page 266

Requirements for Maintenance of Certification