Anesthesiology

Algorithm for Managing Perioperative Bleeding in Clopidogrel Recipients Undergoing CABG (Nussmeier, Nancy A., Chen, LiQian  Spring 2003)

Recent THI Study Suggests That Preoperative Statin Use is Associated with Reduced Postoperative Mortality (Collard, Charles D. Fall 2004)

New Approach to Monitoring for Cerebral Hyperthermia After Cardiopulmonary Bypass (Nussmeier, Nancy A. Fall 2004)

Antifibrinolytic Agents May Increase Mortality Risk by Promoting Microthrombus Development (Frazier, O.H.  Spring 2006)

Preoperative Statin Therapy Is Associated With Reduced Mortality After Coronary Artery Bypass Graft Surgery (Collard, Charles D. Winter 2007)

Cerebral Oxygenation During Hypothermic Cardiopulmonary Bypass: Influence of α-stat vs. pH-stat Blood Gas Management (Cooper Jr., John R. Winter 2007)

Aneurysm (research)

Hybrid Technique Offers Alternative to Open Repair of Thoracoabdominal Aortic Aneurysms (Gregoric, Igor, Livesay, James J., Krajcer, Zvonimir, Strickman, Neil E. Summer 2004)

Matrix Metalloproteinases May Contribute to the Development and Expansion of Thoracic Aortic Aneurysms (LeMaire, Scott A., Coselli, Joseph S. Fall 2005)

Monitoring Sensor Inserted With Abdominal Aortic Aneurysm Stent-Graft Implant Shows Promise (Krajcer, Zvonimir Spring 2006)

Preventing BioGlue-Related Nerve and Cardiac Conduction Tissue Injury (LeMaire, Scott A. Summer 2006)

GenTAC Registry Will Improve Clinical Management of Genetically Induced Thoracic Aortic Aneurysms (Milewicz, Dianna M., LeMaire, Scott A. Summer 2008)

Nationwide Study Examines Genetically Triggered Thoracic Aortic Aneurysms (LeMaire, Scott A., Coselli, Joseph S. Winter 2010)

Large-scale Database Study Shows Advantages of Endovascular Repair of Descending Thoracic Aortic Aneurysms (Coselli, Joseph S., Bakaeen, Faisal G. Spring 2011)

Rare Genetic Copy Number Variants Are Identified in Patients With Thoracic Aortic Aneurysms and Dissections (LeMaire, Scott A., Milewicz, Dianna Spring 2011)
Aneurysm (surgery and interventional procedures)

Surgical or Endovascular Repair of Abdominal Aortic Aneurysms at Risk of Rupture (Krajcer, Zvonimir, Reul, George J.  Summer 2002)

New Technique of Aortic Root Aneurysm Repair Spares the Aortic Valve (Ott, David A.  Fall 2003)

Intraoperative Spinal Cord Monitoring May Decrease Risk of Neurologic Injury During Aortic Aneurysm Repair (Gregoric, Igor  Winter 2004)

Hybrid Technique Offers Alternative to Open Repair of Thoracoabdominal Aortic Aneurysms (Gregoric, Igor, Livesay, James J., Krajcer, Zvonimir, Strickman, Neil E.  Summer 2004)

Surgical and Endovascular Interventions for Brachiocephalic Artery Disease (Cooley, Denton A., Reul, George J.  Winter 2005)

Multimodality Approach for Organ Protection During Extensive Thoracoabdominal Aortic Aneurysm Surgery (Coselli, Joseph S.  Summer 2005)

Simultaneous Endovascular Repair of Descending Thoracic and Abdominal Aortic Aneurysms Now Possible (Coselli, Joseph S.  Winter 2006)

Aortic Repairs in Patients With Marfan Syndrome (Coselli, Joseph S.  Fall 2006)

Endovascular Treatment of Thoracic Aortic Disease is Beneficial for Selected Patients (Coselli, Joseph S.  Fall 2007)

Cardiologist at THI at SLEH Is the First Physician in Texas to Implant the Powerlink XL Stent Graft (Kracjer, Zvonimir  Winter 2009)

Additional Grafts Within Arterial Territories Do Not Improve Outcomes in Coronary Artery Bypass Patients (Coselli, Joseph S. Chu, Danny Spring 2009)

Cardiologist at THI at SLEH Is the First Physician in Texas to Implant a Next-Generation EXCLUDER Stent-Graft (Krajcer, Zvonimir Summer 2009)

Texas Heart Institute Involved in First Prospective, Multicenter Trial of Totally Percutaneous AAA Repair Technique (Krajcer, Zvonimir Winter 2012)

Biostatistics

THI Mines its Database to Improve Treatment for Cardiovascular Disease (Vaughn, William K.  Fall 2002)

Clinical Database Expansion to Foster Evidence-Based Cardiovascular Care (Elayda, MacArthur, Wilson, James M.  Fall 2004)
Algorithm Identifies High-Risk Patients After Coronary Revascularization (Elayda, MacArthur A.  Fall 2006)

Blood Supply

Cardiovascular Centers are Feeling the Effects of America's Worst-Ever Blood Shortage (Bracey, Arthur W.  Winter 2003)

Bloodless Liver Resection Highlights Blood-Conservation Techniques (Barakat, Omar, Cooper Jr., John R.  Spring 2007)

Cold Blood and Cold Crystalloid Solution Provide Equivalent Renal Protection During TAAA Repair (LeMaire, Scott A., Coselli, Joseph S  Winter 2009)

Education

Computerized Physician-Order-Entry System Will Streamline Clinical Care (Hogan, Patrick J.  Winter 2003)

Medical Web Sites are Helpful Tools for Busy Physicians (Jackson, Marjorie  Spring 2003)

Addressing Depression in Patients with Coronary Heart Disease (Ray, Priscilla  Fall 2003)

Training Program Focuses Attention on Overlooked Peripheral Arterial Disease (Henderson, Maria, Reul, George J.  Summer 2004)

Sleep Centers May Benefit Cardiovascular Patients Who Experience Sleep Apnea (Doerr, Clinton H., Schnee, Mark J.  Winter 2005)

Physician Education Aims to Blunt Cardiovascular Effects of Obesity, Diabetes, and Metabolic Syndrome (Delgado III, Reynolds M.  Summer 2005)

Texas Heart Institute's Heart Information Center Website Becomes a Prominent Heart-Health Resource (Hoge, Ken  Fall 2005)

Ethical Issues in Scientific Publications (Stewart, Donna J.  Spring 2006)

Heart Sounds and Murmurs Website Offers Training Tool for Physicians (Wilson, James M.  Fall 2006)

In Complicated Cases, Surgical Expertise and Experience Are Often Decisive Factors (Ott, David A.  Spring 2008)

The Beginning of the Seasonal Academic Rotation Does Not Affect Cardiac Surgical Outcomes (Bakaeen, Faisal, Coselli, Joseph S  Fall 2008)

Level of Experience Does Not Affect Outcomes of Operations Performed by Supervised Cardiovascular Surgical Residents (Bakaeen, Faisal, Coselli, Joseph S  Fall 2009)
Heart Sounds Podcasts Help Teach the Art of Auscultation (Wilson, James M.  Fall 2009)

Impact of Duty-Hour Restrictions on the Outcomes of Coronary Artery Bypass Grafting (Coselli, Joseph S., Bakaeen, Faisal G.  Fall 2010)

Heart Disease (Cardiology)

Assessing the Role of Gender and Hormone Replacement Therapy in Cardiovascular Disease (Nussmeier, Nancy A.  Summer 2002)

New ACC/AHA Guidelines for Managing Patients with Acute Coronary Syndromes Reflect Recent Findings (Ferguson III, James J.  Fall 2002)

Angiotensin Receptor Blockers Find Place in Heart Failure Therapy (Massin, Edward K.  Fall 2002)

Imaging the Heart With Harmonics (Stainback, Raymond  Fall 2002)


Assessing Revascularization Options for Patients With Diabetes (Wilson, James M.  Spring 2003)

Managing Obesity, Diabetes, and Cardiovascular Disease in America's Growing Hispanic Population (Card, Robert J.  Winter 2004)

Percutaneous Coronary Intervention Versus Fibrinolysis as Initial Treatment for Acute Myocardial Infarction (Angelini, Paolo  Winter 2004)

THI/SLEH Cardiologists are Trained to Use a New Embolic Protection Device (Fish, R. David Winter 2004)

Adults with Congenital Heart Disease Require Specialized Care (Towbin, Jeffrey, Wilson, James M.  Winter 2004)

Radiofrequency Catheter Ablation Advances Atrial Fibrillation Therapy (Cheng, Jie  Spring 2004)

Gender-Related Differences in Cardiovascular Disease Prompt Clinical Initiatives (Nussmeier, Nancy A., Woodruff, Amy L., HerHealthyHeart  Summer 2004)

Potentially Cardiotoxic Cancer Treatments Pose Special Cardiac Challenges (Feghali, Sayed, Yeh, Edward T.H.  Fall 2004)

Vaccine Shortage Offers Unique Chance to Study Public Awareness and Cardiovascular Benefits of Flu Vaccination (Madjid, Mohammad  Winter 2005)
Surgical and Endovascular Interventions for Brachiocephalic Artery Disease (Cooley, Denton A., Reul, George J. Winter 2005)

Heart Disease Remains the Top Killer of Americans (Cooley, Denton A. Spring 2005)

Patent Foramen Ovale: To Treat or Not to Treat? (Fish, R. David Spring 2005)

Sudden Cardiac Death in Young Athletes (Angelini, Paolo Winter 2006)

Posttraumatic Stress in the Wake of Disasters May Affect Cardiovascular Health (Wilson, James M., Hammonds, Evangelina B. Winter 2006)

Approaches to the Treatment of Unstable Angina: A Case Example (Fish, R. David Summer 2006)

Hybrid Surgical Procedures Combine the Best of Surgery and Interventional Cardiology (Reul, Ross M., Mortazavi, Ali Summer 2006)

Influenza Vaccination for Patients with Cardiovascular Disease Gains Wider Support (Madjid, Mohammad Winter 2007)

Parametric Imaging Is a New Echocardiographic Tool for Evaluating Heart Health (Stainback, Raymond F. Spring 2007)

Transvenous Left Ventricular Pacemaker Lead Placement Can Be Successful in Patients With Tricuspid Valve Prosthesis (Lopez, J. Alberto Fall 2007)

The Texas Adult Congenital Heart Center Offers Specialized Care for Patients With Congenital Heart Disease (Franklin, Wayne J., Fraser, Charles Winter 2008)

Autopsy Data Confirm that Influenza and Acute Respiratory Disease Increase Coronary-Related Deaths (Madjid, Mohammad Winter 2008)

New Standardized Treatment Practice Implemented for Patients With ST-Segment Elevation Myocardial Infarction (Brown, Larry H. Wilson, James M. Spring 2008)

Potentially Dangerous Weight-loss Suppliments Are Easily Obtained via the Internet (Razavi, Mehdi Nazeri, Alireza Summer 2008)

New Insights Further the Understanding of Left Ventricular Apical Ballooning (Takotsubo Syndrome) (Angelini, Paolo Summer 2008)

Texas Heart Institute Cardiologist Is the First Physician in the United States to Implant a Pacemaker Antibiotic Envelope (Massumi, Ali Fall 2008)

Texas Heart Institute Cardiologist Performs Procedure to Stop an Unprecedented Ventricular "Electrical Storm" (Cheng, Jie Winter 2009)
Pneumococcal and Influenza Vaccination May Have Cardioprotective Effects (Madjid, Mohammad  *Winter 2009*)

Alternative Anticoagulation Strategies Improve the Safety and Efficacy of Percutaneous Coronary Interventions (Diez, José G.  *Spring 2009*)

Heart Failure in Adults With Congenital Heart Disease Leads to New Challenges in a Special Population (Franklin, Wayne, Parekh, Dhaval  *Spring 2009*)

Texas Heart Institute Physicians Join the Fight to Prevent Sudden Cardiac Death in Young Athletes (Angelini, Paolo  *Summer 2009*)

Novel Device Can Prevent Pneumothorax During Vascular-Access Procedures (Razavi, Mehdi  *Summer 2009*)

Biologic Sex Differences Play a Role in Cardiovascular Disease (Coulter, Stephanie A.  *Spring 2010*)

The Peripheral Vascular Laboratory at St. Luke’s Episcopal Hospital Provides Integral Support for Cardiovascular Services (Reul, George J., Kazee, Brenda  *Spring 2010*)

Comorbid Obesity and Renal Insufficiency Are Associated With Poorer Outcomes After Coronary Artery Bypass Grafting (Pan, Wei, Collard, Charles D.  *Spring 2010*)

Postpacing Interval Variability Predicts Global Activation Patterns During Tachycardia (Razavi, Mehdi  *Summer 2010*)

Caucasian Race/Ethnicity Is a Risk Factor for New-Onset Atrial Fibrillation After Coronary Artery Bypass Grafting (Razavi, Mehdi, Nazeri, Alireza  *Fall 2010*)

A New Catheter-based Procedure Can Eliminate a Main Source of Blood Clots Originating in the Heart (Chen, Jie, Cohn, William E.  *Spring 2011*)

**Heart Disease (heart failure cardiology)**

Biventricular Pacing Finds a Place in Heart Failure Therapy (Seger, John J.  *Winter 2003*)

Specialized Heart Failure Center Improves Survival and Quality of Life for Symptomatic Patients (Delgado III, Reynolds M.  *Winter 2003*)

Search Continues for Ideal Immunosuppressive Regimens for Heart Transplant Recipients (Smart, Frank  *Fall 2003*)

Implantable Hemodynamic Monitor Simplifies Treatment of Chronic Congestive Heart Failure (Smart, Frank W.  *Spring 2004*)

Heart Failure Center Offers Gamut of Treatment Options for Chronic Heart Failure (Smart, Frank  *Winter 2005*)
The Search Continues for Simple, Reliable Predictors of Advanced Heart Failure (Bogaev, Roberta C.  *Summer 2007*)

Heart Failure Program Addresses End-of-Life Care for Patients With Advanced Heart Failure (Delgado III, Reynolds M., Donaho, Erin K.  *Summer 2007*)

High School Student Resumes an Active Life After HeartMate II Implantation (Bogaev, Roberta *Summer 2009*)

Approval of the HeartMate II LVAS for Destination Therapy Broadens the Patient Population Eligible for Treatment (Bogaev, Roberta C., Frazier, O.H. *Spring 2010*)

A Simple Blood Test Is as Effective as a Biopsy in Monitoring for Heart Transplant Rejection (Bogaev, Roberta *Summer 2010*)

Researchers Characterize the Plasma Metabolites of Patients With Primary Dilated Cardiomyopathy (Marian, Ali J.  *Winter 2011*)

Endomyocardial Calcification Is Identified as a Cause of Heart Failure (Buja, L. Maximilian, Segura, Ana Maria *Winter 2012*)

**Heart Disease (cardiology research)**

Insights into Vulnerable Plaque are Changing How Physicians Detect and Treat Heart Disease (Willerson, James T., Wilson, James M.  *Summer 2002*)

Collaborative Study Explores Links Between Gene Expression and Postoperative Outcomes (Collard, Charles D.  *Fall 2002*)

Search Widens for Gene Therapies in Atherosclerosis (Zoldhelyi, Pierre  *Winter 2003*)

Gene Polymorphisms in Myocardial Infarction Come Under Increasing Scrutiny (Zoldhelyi, Pierre  *Spring 2003*)

Researchers Continue to Clarify Myocardial Cell Survival in the Failing Heart (Taegtmeyer, Heinrich  *Summer 2003*)

Emerging Evidence Links Influenza and Coronary Artery Disease (Madjid, Mohammad, Casscells III, S. Ward  *Summer 2003*)

C-Reactive Protein: A Powerful Predictor of Cardiovascular Events (Willerson, James T., Yeh, Edward T.H.  *Fall 2003*)

Percutaneous Heart Valve Replacement Emerges as Alternative to Traditional Approach (Paniagua, David, Fish, R. David  *Spring 2004*)

Innovative Device Addresses Mitral Valve Regurgitation Percutaneously (Cohn, William E. *Summer 2004*)
Novel Integrated Approach to Microscopic Pathology Enhances Cardiovascular Device Research (Clubb Jr., Fred J.  *Fall 2004*)

Laboratory Researchers Seek to Harness Clinical Potential of Nanotechnology (Casscells III, S. Ward, Conyers, Jay  *Fall 2004*)

Genetics Project Underway to Examine Familial Clustering of Premature Myocardial Infarction (Willerson, James T.  *Winter 2005*)

Vaccine Shortage Offers Unique Chance to Study Public Awareness and Cardiovascular Benefits of Flu Vaccination (Madjid, Mohammad  *Winter 2005*)

Cellular Housekeeping May Underlie Reverse Remodeling of Mechanically Supported Failing Hearts (Taegtmeyer, Heinrich, Razeghi, Peter  *Winter 2005*)

Cox-1 Gene Transfer Technique Shows Promise for Preventing Restenosis After Angioplasty (Zoldhelyi, Pierre  *Summer 2005*)

Artificial Aortic Valve Replacements Continue to Evolve (Ott, David A., Fish, R. David, Paniagua, David, Kadipasaoglu, Kamuran  *Spring 2005*)

Studies Evaluate the Safety and Efficacy of COX-2 Inhibitors in Cardiac and Noncardiac Surgical Patients (Nussmeier, Nancy A.  *Spring 2005*)

Periadventitial Fat and Atherosclerosis (Casscells, Ward S.  *Winter 2006*)

Left Ventricular Size and Shape: Determinants of Mechanical Signal Transduction Pathways (Mann, Douglas L.  *Spring 2006*)

Proteomics: A Step Beyond Genomics (Engler, David A.  *Fall 2006*)

Pharmacogenetics Leads the Way to Individualized Warfarin Therapy (Feldman, David N.  *Summer 2007*)

Inflammation Contributes to the Delicate Dance of Apoptosis in the Failing Heart (Mann, Douglas L.  *Fall 2007*)

Reversion to a Fetal Metabolic Gene Profile May Protect the Stressed Heart (Taegtmeyer, Heinrich  *Winter 2008*)

Hamster Study Shows the Potential Prognostic Value of Body Temperature in Human Cases of Congestive Heart Failure (Gondi, Sreedevi, Brewer, Alan  *Spring 2008*)

Molecular Studies Focus on the Genetics of Hypertrophic Cardiomyopathy (Marian, Ali J.  *Spring 2008*)

Defects in a Cytoskeletal Protein in Cardiomyocytes May Contribute to Heart Failure (Mann, Douglas L.  *Fall 2008*)
Antiviral Treatment Reduces the Risk of Stroke After Influenza Infection (Madjid, Mohammad  
*Fall 2009*)

Researchers Uncover the Pathogenesis of Arrhythmogenic Right Ventricular Cardiomyopathy  
(Marian, A.J.  *Fall 2009*)

Researchers Characterize an Atherogenic Pathway for a Negatively Charged Low-Density  
Lipoprotein (Chen, Chu-Huang (Mendel)  *Winter 2010*)

Influenza Virus Infects, Inflames, and Inhabits the Arteries of Mice (Madjid, Mohammad  
*Spring 2010*)

Researchers Use Chromosome Variant to Predict Mortality After Cardiac Surgery (Collard,  
Charles D.  *Fall 2010*)

New Roles Emerge for Sumoylation in the Regulation of Cardiac Gene Expression (Schwartz,  
Robert  *Fall 2010*)

Resolvin E1 Protects Cardiomyocytes From Reperfusion Injury and Limits Infarct Size in Rats  
(Birnbaum, Yochai  *Summer 2010*)

Outcomes of Surgical Versus Endovascular Coronary Revascularization in Patients With  
Chronic Kidney Disease (Wilson, James  *Winter 2011*)

Antitachycardia Pacing Is Clinically Beneficial for Primary Prevention in Patients With  
Implantable Cardioverter Defibrillators (Saeed, Mohammad, Massumi, Ali  *Spring 2011*)

Is Vitamin D a Risk Factor for Acute Coronary Syndromes? (Marian, Ali J., Willerson, James T.  
*Summer 2011*)

Combining Electrocardiography and Angiography Findings Sheds New Light on Acute ST  
Elevation Myocardial Infarction (Birnbaum, Yochai  *Summer 2011*)

Researchers Identify Muscle-Restricted Coiled-Coil (MURC) as a Potential Causal Gene for  
Dilated Cardiomyopathy (Marian, Ali J.  *Fall 2011*)

THI Cardiologists and Rice University Bioengineering Students Invent New Automated External  
Defibrillator Pads (Razavi, Mehdi  *Fall 2011*)

**Heart Disease (surgery)**

Off-Pump Coronary Artery Bypass Grafting and Transmyocardial Laser Revascularization  
Performed Via a Left Thoracotomy (Frazier, O.H.  *Summer 2002*)

Mitral Valve Repair at THI Has Been Made Simpler and More Reliable (Ott, David  *Summer  
2002*)

Maze Procedure Offers Highest Chance of Cure for Atrial Fibrillation (Duncan, J. Michael  
*Fall 2002*)
Surgical Ventricular Restoration Provides Innovative Treatment of Congestive Heart Failure (Gregoric, Igor, Reul, Ross M.  *Summer 2003*)

Anastomotic Connectors in Minimally Invasive Cardiac Surgery (Reul, Ross M., Livesay, James J.  *Fall 2003*)

Caregivers Seek New Approaches to Managing Postoperative Pain (Reul, Ross M.  *Spring 2004*)

New Hybrid Suites Allow Simultaneous Surgical and Intravascular Procedures (Mortazavi, Ali, Reul, Ross M.  *Fall 2005*)

High-Intensity Ultrasound Expands Options for Epicardial Ablation of Atrial Fibrillation (Reul, Ross M.  *Winter 2006*)

State-of-the-Art Cardiovascular Surgery (Cooley, Denton A.  *Summer 2006*)

Robot-Assisted Cardiovascular Surgery Speeds Recovery (Cohn, William E.  *Summer 2006*)

Hybrid Surgical Procedures Combine the Best of Surgery and Interventional Cardiology (Reul, Ross M., Mortazavi, Ali  *Summer 2006*)

Low Atrial Fibrillation Rate in Heart Transplant Patients Provides Insights Into Treating Primary Atrial Fibrillation (Cohn, William E.  *Winter 2007*)

THI Experience Suggests that Off-Label Use of Low-Dose Recombinant Activated Factor VII Is Safe and Effective (Frazier, O.H., Bruckner, Brian A.  *Spring 2007*)

Heart Transplantation Remains a Viable Option for Selected Patients With End-Stage Heart Failure (Gregoric, Igor D.  *Summer 2007*)

Two Grateful Patients Visit the Surgeon Who Pioneered the Operation That Saved Their Lives 50 Years Earlier (Cooley, Denton A.  *Summer 2008*)

Researchers Identify Genetic Variants Associated with Postoperative Atrial Fibrillation (Collard, Charles D  *Fall 2009*)

Nationwide Database Review Shows That CABG and OPCAB Yield Equivalent Early Outcomes (Coselli, Josesh S., Chu, Danny  *Winter 2010*)

Risk Models May Overestimate the 30-Day Mortality Risk After Thoracic Aortic Surgery (Coselli, Joseph S., Bakaeen, Faisal G.  *Summer 2010*)

Aortic Arch Replacement Using the Y-Graft Technique Compares Favorably with Traditional Approaches (LeMaire, Scott A., Coselli, Joseph S.  *Summer 2011*)

Heart Disease (surgical research)
Biocompatible Polymer May Improve Visualization During Off-Pump Coronary Artery Bypass Procedures (Cohn, William E. *Summer 2005*)


Platelet Function Tests May Identify Patients at Risk of Perioperative Bleeding (Bracey, Arthur *Spring 2007*)

A Mannose-Binding Lectin Gene Haplotype Predicts Myocardial Infarction After Coronary Artery Bypass Surgery (Collard, Charles D. *Fall 2007*)

Preoperative B-Type Natriuretic Peptide Predicts Ventricular Dysfunction, Hospital Stay, and Mortality After CABG (Collard, Charles D. *Fall 2008*)

Texas Heart Institute Is Involved in Multicenter Study of High-Intensity Focused Ultrasound for Treating Atrial Fibrillation (Duncan, Michael J., Reul, Ross M. *Winter 2011*)

Survival Rates are Similar for Men and Women With a Continuous Flow Ventricular Assist Device (Bogaev, Roberta *Spring 2011*)

Heart-Type Fatty Acid Binding Protein is an Independent Predictor of Postoperative Mortality and Ventricular Dysfunction (Collard, Charles D. *Spring 2011*)

Postoperative B-Type Natriuretic Peptide Levels Predict Decreased Longer-term Physical Function After CABG (Collard, Charles D. *Summer 2011*)

Obesity Influences the Incidence of Morbidity But Not Mortality After Coronary Artery Bypass Grafting (Wilson, James M., Elayda, MacArthur E. *Fall 2011*)

Postoperative Serum Creatinine May Be a Biomarker for Mortality After Coronary Artery Bypass Surgery (Pan, Wei, Collard, C. David *Winter 2012*)

**Mechanical Circulatory Support Clinical**

Emerging Indications for the Jarvik 2000 Continuous-Flow Left Ventricular Assist Device (Frazier, O.H. *Winter 2003*)

Unloading with a Left Ventricular Assist Device May Allow Adrenergic Receptor Recovery (Grigore, Alina *Summer 2003*)

Design Changes Have Improved the Reliability of the HeartMate Pulsatile Blood Pump (Frazier, O.H. *Summer 2003*)

Percutaneous Circulatory Assist Devices May Help Patients in Cardiogenic Shock (Delgado III, Reynolds M., Radovancevic, Branislav *Winter 2004*)
Mechanical Complications Sometimes Necessitate Pump Exchange in Left Ventricular Assist Device Patients (Frazier, O.H. *Winter 2006*)

Percutaneous Transseptal Circulatory Assist Device Bridges Patients to Recovery From Myocarditis (Kar, Biswajit, Loyalka, Pranav, Delgado III, Reynolds *Spring 2007*)

Ventricular Assist Devices Are Similar, Simpler, and Saving More Lives (Frazier, O.H. *Summer 2007*)

HeartMate II Left Ventricular Assist Device Can Provide Effective Hemodynamic Support as a Bridge to Transplant (Frazier, OH *Winter 2008*)

HeartMate II Left Ventricular Assist System Support Can Induce Remission of Heart Failure (Frazier, O.H. *Fall 2008*)

The TandemHeart System Improves the Odds of Survival in Patients With Severe Refractory Cardiogenic Shock (Kar, Biswajit Loyalka, Pranav *Summer 2009*)

TandemHeart Can Provide Rescue Therapy for Patients With Critical Aortic Valve Stenosis (Gregoric, Igor D., Kar, Biswajit *Fall 2010*)

Texas Heart Institute Surgeons Implant 4 SynCardia Total Artificial Hearts in 12 Days (Gregoric, Igor D., Frazier, O. H. *Fall 2011*)

Renal Function Can Improve in Left Ventricular Assist Device Recipients Requiring Renal Replacement Therapy (Frazier, O. H. *Winter 2012*)

**Mechanical Circulatory Support Research**

Implantable Left Ventricular Assist Devices Become Smaller, Simpler, and Potentially More Durable (Frazier, O.H., Kadipasaoglu, Kamuran *Summer 2004*)

Texas Heart Institute Builds on Long Experience With Mechanical Circulatory Support Devices (Frazier, O.H. *Summer 2005*)

Total Replacement of the Heart with Dual Implantable Continuous-Flow Pumps (Frazier, O.H. *Fall 2005*)

Expanding the Options for Heart Failure Treatment: The AbioCor Total Artificial Heart (Frazier, O.H. *Spring 2008*)

Texas Heart Institute Researchers Study a Total Artificial Heart Comprising Dual Implantable Continuous Flow Pumps (Cohn, William E., Frazier, O.H. *Winter 2009*)

New Tools and Techniques Make Implantation of the Gen2 CorCap Cardiac Support Device Easier and Less Invasive (Cohn, William E. *Summer 2009*)

Newer Ventricular Assist Devices Incorporate Technology That Eliminates Mechanical Bearings (Bogaev, Roberta, Frazier, O.H. *Fall 2009*)

*Heart Watch* Index: Read the articles online at www.texasheart.org/heartwatch.
Texas Heart Institute Is Participating in a Multicenter Clinical Trial of the Impella 2.5 System (Civitello, Andrew, Silva, Guilherme Summer 2011)

MRI and Imaging

Contrast-enhanced Magnetic Resonance Imaging May Help Clinicians Recognize Hibernating Myocardium (Flamm, Scott D. Summer 2003)

New Recommendations Urge Screening for Abdominal Aortic Aneurysms in Older Men Who Have Smoked (Flamm, Scott D. Spring 2005)

Noninvasive Multidetector Computed Tomography Closes in on Traditional Invasive Coronary Angiography (Flamm, Scott D. Fall 2005)

Is 16-Row Multislice CT Coronary Angiography Useful in Emergency Department Patients With Acute Chest Pain? (Huber, Steffen, Flamm, Scott D. Summer 2006)

Sixty-four-Slice Multi-Detector Computed Tomography: A New Tool for Noninvasive Imaging of the Coronary Arteries (Cheong, Benjamin Fall 2006)

Detection of Coronary Artery Disease by Stress Perfusion Cardiac Magnetic Resonance Imaging (Cheong, Benjamin Winter 2007)

3D Volume Rendering of Images Improves the Planning of Surgical and Interventional Cardiovascular Procedures (Cheong, Benjamin, Wells, William Winter 2008)

Researchers Compare Current and New Noninvasive Imaging Techniques for Characterizing Atherosclerotic Plaque (Aboshady, Ibrahim, Buja, L. Maximilllan Spring 2008)

Appropriateness Criteria Set New Standards for Transthoracic and Transesophageal Echocardiography Usage (Stainback, Raymond Summer 2008)

Researchers Test New Techniques for Faster Acquisition of Analysis of Cardiac Magnetic Resonance Images (Cheong, Benjamin Fall 2008)

Texas Heart Institute at St. Luke's Episcopal Hospital Is First in US to Use the 32-Channel Achieva 1.5T MR Scanner Clinically (Muthupillai, Raja, Cheong, Benjamin Spring 2009)

Delayed-Enhancement Magnetic Resonance Imaging Can Predict Survival in Cardiac Patients (Cheong, Benjamin, Muthupillai, Raja Winter 2010)

Magnetic Resonance Imaging Is Effective for Assessing Myocardial Perfusion After Transmyocardial Laser Revascularization (Frazier, O.H., Cheong, Benjamin Winter 2010)

Negatively Charged Liposomes Target Atheromas in Watanabe Heritable Hyperlipidemic Rabbits (Walton, Brian Winter 2011)

Peripheral Vascular Disease

Heart Watch Index: Read the articles online at www.texasheart.org/heartwatch.
Surgical and Endovascular Interventions for Carotid Artery Stenosis (Duncan, J. Michael, Krajcer, Zvonimir  Spring 2004)

Interventional Cryoplasty Therapy for Occlusive Peripheral Artery Disease (Krajcer, Zvonimir Summer 2005)

New Hybrid Suites Allow Simultaneous Surgical and Intravascular Procedures (Mortazavi, Ali, Reul, Ross M.  Fall 2005)

Emerging Predictors of Carotid Artery In-Stent Restenosis May Help Establish Treatment Guidelines (Younis, George A., Krajcer, Zvonimir  Fall 2007)

Stem Cell Research

Laboratory Research Supports Ongoing and Future Trials of Stem Cell Therapy (Geng, Yong-Jian  Fall 2003)

Nicotine May Trigger Stem Cells to Differentiate into Viable Cardiac Cells (Geng, Yong-Jian  Spring 2004)

Texas Heart Institute Establishes Center to Coordinate Stem Cell Research (Willerson, James T., Perin, Emerson C.  Spring 2005)

Statin Treatment May Promote Myogenesis and Reduce Stem-Cell Apoptosis in Myocardial Ischemia (Geng, Yong-Jian  Winter 2007)

Remote-Controlled Magnetic Catheter Promises to Improve Delivery of Therapeutic Stem Cells to Damaged Myocardium (Perin, Emerson C.  Spring 2007)

Stem Cells Fuse With Host Cardiomyocytes in Myogenesis (Yeh, Edward T. H., Willerson, James T.  Fall 2007)

Stem Cells From Adult Adipose Tissue Have Cardiovascular Myogenic Potential (Geng, Yong-Jian  Winter 2008)

Researchers Study the Roles of Integrins and Chemokines in Stem Cell Mobilization, Homing, and Engratment (Dixon, Richard  Winter 2009)

Researchers Further Knowledge of Cardiomyocyte Death and Renewal (Vela, Deborah, Buja, L. Maximilian  Spring 2009)

Mesenchymal Stem Cells Improve Healing After an Acute Myocardial Infarction (Vela, Deborah C., Buja, L. Maximiliam  Winter 2010)

Erythropoietin Protects Stem Cells Against a Cytotoxic Environment (Geng, Yong-Jian  Spring 2010)
Long-term Survival of Transplanted CD34+ Cells Contributes to Improved Cardiac Function
(Yeh, Edward T.H.  *Summer 2010*)

Researchers Use Gadonanotubes for In Vivo Tracking of Stem Cells (Tran, Lesa, Perin, Emerson
C., Willerson, J.T. *Winter 2011*)

CD34+/M-cadherin+ Bone Marrow Progenitor Cells May Protect Against Ischemic Injury in
Mice (Dixon, Richard A. F.  *Fall 2011*)

Reporter Gene Imaging Can be Used for Long-term Monitoring of Transplanted Cells in the Pig
Heart (Perin, Emerson C., Willerson, James T. *Winter 2012*)

A Novel Bispecific Antibody May Improve Retention of Transplanted Stem Cells in Injured
Myocardium (Woodside, Darren G. *Winter 2012*)

**Stem Cell Therapy**

Stem Cell Therapy Moving From Bench to Bedside (Perin, Emerson C., Willerson, James T.
*Summer 2002*)

Autologous Bone Marrow Transplantation Shows Potential for Treating Severe Ischemic Heart
Disease (Perin, Emerson C., Willerson, James T.  *Spring 2003*)

Nation's First Stem Cell Therapy Trial Underway for Adult Patients with Advanced Heart
Failure (Perin, Emerson C., Willerson, James T.  *Summer 2004*)

Improved Delivery Becomes a New Goal in Cardiac Stem Cell Therapy (Perin, Emerson C.
*Fall 2005*)

First Clinical Trial Will Evaluate New Stem Cell Technology for Heart Failure Therapy (Perin,
Emerson C., Willerson, James T.  *Spring 2006*)

New Clinical Trial Evaluates Promising Stem Cell Therapy for Peripheral Vascular Disease
(Perin, Emerson C., Willerson, James T.  *Fall 2006*)

Of the Multiple Types of Stem Cells, Can One Best Prevent Heart Failure? (Perin, Emerson C.
*Summer 2007*)

Patient Receives Allogeneic Mesenchymal Precursor Cells to Treat Acute Myocardial Infarction
(Perin, Emerson C. Willerson, James T.  *Summer 2008*)

The Texas Heart Institute at St. Luke's Episcopal Hospital Continues at the Forefront of Stem
Cell Therapy (Perin, Emerson C., Willerson, James T.  *Spring 2009*)

Cardiovascular Cell Therapy Research Network Is Enrolling Patients (Perin, Emerson
Willerson, James T.  *Summer 2010*)

FOCUS-HF Trial Shows Cell Therapy Is Safe and Benefits Patients With Ischemic Heart Failure
(Perin, Emerson C., Willerson, James T.  *Summer 2011*)
Cell Therapy With Aldehyde Dehydrogenase Bright Cells May Benefit Patients With Critical Limb Ischemia (Perin, Emerson C., Willerson, James T. Fall 2011)

**Updates**


Trial to Test the Use of Drug-Coated and Drug-Eluting Stents (Fish, R. David Summer 2002)

A New Drug Expected to Reduce the Need for Blood Transfusions During Surgery (Nussmeier, Nancy A. Fall 2002)

Current Research Topics Involving THI's Research Database (Hogan, Patrick Fall 2002)

Research Explores Early Cardiac Development and Function (Geng, Yong-Jian Fall 2002)

Brazilian Trial Uses Stem Cell Therapy to Treat Heart Failure Patients (Perin, Emerson C., Willerson, James T. Winter 2003)

FDA Approves HeartMate LVAD for Permanent Use (Frazier, O.H. Winter 2003)

THI Surgeons Implant AbioCor Implantable Replacement Heart (Frazier, O.H. Spring 2003)

11th AbioCor Implanted at THI; 2 THI Patients Receive Jarvik 2000 LVAD (Frazier, O.H. Summer 2003)


Carotid Endarterectomy at THI/SLEH (Duncan, J. Michael, Reul, George J. Summer 2003)

FDA Approves Sirolimus-Coated Stents (Ferguson, Terry Summer 2003)

Multicenter Trials to Test the Safety of CentriMag and TandemHeart on Patients (Delgado III, Reynolds Fall 2003)

THI Researchers Studying Relationships Between Influenza, Atherosclerosis, and Vulnerable Plaque (Casscells, S. Ward, Madjid, Mohammad Fall 2003)

Brazilian Stem Cell Trial Follow-Up Continues (Perin, Emerson C., Willerson, James T. Fall 2003)

First HeartMate II Implantation Performed at THI (Frazier, O.H. Winter 2004)

Inflammatory Marker Research Heats Up (Casscells III, S. Ward Winter 2004)

Emergency Department Expansion Bolsters Cardiac Services (Cooley, Denton A. Winter 2004)

*Heart Watch* Index: Read the articles online at www.texasheart.org/heartwatch.
National Heart Failure Registry (Ferguson, Terry  *Winter 2004*)

Trial to Test the Safety of 2 Anti-Inflammatory Drugs (Collard, Charles D.  *Spring 2004*)

12th AbioCor Implanted (Frazier, O.H.  *Spring 2004*)

THI Participating in Epic Heart Valve Trial (Duncan, Michael, Ott, David, Reul, George, Reul, Ross  *Summer 2004*)

Implantable Cardiac Monitor Improves Patient Care (Delgado III, Reynolds M.  *Spring 2005*)

View CME Archives Online (Hogan, Patrick  *Spring 2005*)

Pulsatile LVADs As Destination Therapy for End-Stage Heart Failure Patients (Frazier, O.H.  *Summer 2005*)

New School for Cardiac Support (Myers, Tim  *Summer 2005*)

View CME Archives Online (Hogan, Patrick  *Summer 2005*)

View CME Archives Online (Hogan, Patrick  *Fall 2005*)

Ongoing Trials on Patients Undergoing Major Cardiac Surgery While on Cardiopulmonary Bypass (Nussmeier, Nancy A., Grigore, Alina  *Fall 2005*)

View CME Archives Online (Hogan, Patrick  *Winter 2006*)

Miracle Workers (Cohn, William E.  *Spring 2006*)

Douglas L. Mann, MD, Appointed Chief of Cardiology at the Texas Heart Institute at St. Luke's Episcopal Hospital (Mann, Douglas L.  *Spring 2006*)

St. Luke's Episcopal Hospital Adds New CT Scan Technology (Cheong, Benjamin  *Summer 2006*)

Texas Heart Institute Rises in Rank Among Top 10 Heart Centers (Cooley, Denton A.  *Fall 2006*)

Patient Recruitment for 3 FDA Approved Clinical Trials (Willerson, James T., Perin, Emerson C.  *Fall 2006*)

Food and Drug Administration Approves AbioCor Artificial Heart for Permanent Use (Frazier, O.H.  *Winter 2007*)

Symposium to Examine the Role of Inflammation in Atherosclerosis (Geng, Yong-Jian  *Winter 2007*)

Symposium to Address Common Problems Faced by Physicians Who Treat Patients With Cardiac Arrhythmias (Massumi, Ali  *Winter 2007*)

*Heart Watch* Index: Read the articles online at www.texasheart.org/heartwatch.
THI Website Honored (Hoge, Ken  Spring 2007)

Smithsonian Displays the Liotta-Cooley Artificial Heart (Cooley, Denton A.  Spring 2007)

Roberta C. Bogaev, MD, Named Director of Advanced Heart Failure and Cardiac Transplantation (Bogaev, Roberta C.  Summer 2007)

Texas Heart Institute at St. Luke's Episcopal Hospital to Take Part in an NIH Stem Cell Study Consortium (Willerson, James T., Perin, Emerson C.  Summer 2007)

THI Staff Member is Appointed Assistant Secretary of Defense for Health Affairs (Casscells III, S. Ward  Summer 2007)

Texas Heart Institute at St. Luke's Episcopal Hospital Is Ranked Among the Nation's Top 10 Heart Centers (Cooley, Denton A.  Fall 2007)

Texas Heart Institute at St. Luke's Episcopal Hospital Participates in Collaborative Thoracic Aoaortic Research (Coselli, Joseph S.  Fall 2007)

Dr. Willerson Receives Katz Prize (Willerson, James T.  Winter 2008)

Felt Plug Simplifies LVAD Explantation (Frazier, OH, Cohn, WE Winter 2008)


Michael E. DeBakey, MD, Honored at Denton A. Cooley Cardiovascular Surgical Society Meeting (Cooley, D.A.  Spring 2008)

Texas Heart Institute Develops a New Risk Scoring Protocol (Elayda, MacArthur  Spring 2008)


HeartMate II LVAS Is Approved as a Bridge to Transplantation (Frazier, O.H.  Summer 2008)

Denton A. Cooley, MD, Inducted Into Michael E. DeBakey International Surgical Society (Cooley, Denton A.  Summer 2008)

Texas Heart Institute Awarded NIH Grant for New Artificial Heart (Frazier, O.H.  Summer 2008)

Texas Heart Institute at St. Luke's Episcopal Hospital Is Ranked Among Nation’s Top 10 Heart Centers (Cooley, Denton A.  Fall 2008)

James T. Willerson, MD, Is Appointed President of THI (Willerson, James T.  Fall 2008)

Michael E. DeBakey, MD, Dies at Age 99 (Cooley, Denton A.  Fall 2008)
Edward T.H. Yeh, MD Named a McNair Scholar (Yeh, Edward T.H. *Winter 2009*)

Robert J. Schwartz, PhD, Brings His Expertise in Cardiac Regenerative Therapy to THI at SLEH (Schwartz, Robert J. *Spring 2009*)

Texas Heart Institute at St. Luke's Episcopal Hospital Is Honored for Clinical Excellence (Willerson, James T. *Spring 2009*)

Low Body Temperature May Predict Congestive Heart Failure Complications (Ahmed, Amany Aboshady, Ibrahim *Spring 2009*)

Texas Heart Institute at St. Luke’s Episcopal Hospital Is Recognized for Superior Heart Care (*Summer 2009*)

Texas Heart Institute at St. Luke’s Episcopal Hospital Strengthens Its Partnership With the University of Texas System (Willerson, James T. *Summer 2009*)

National “July Effect” Study Published (Bakaeen, Faisal *Fall 2009*)

Available Podcasts (Wilson, James T. *Fall 2009*)

Texas Heart Institute at St. Luke’s Episcopal Hospital Is Ranked 5th Among the Nation’s Top 10 Heart Centers (Willerson, James T. *Fall 2009*)

THI at SLEH Receives Grants for Cutting-Edge Research (Willerson, James T., Dixon, Richard A.F. *Winter 2010*)

Residents Perform Safe Aortic Valve Replacement in Octogenarians (Bakaeen, Faisal G. *Winter 2010*)

THI at St. Luke’s Receives Grant for Combined Stem Cell and Heart Assist Device Therapy (Gregoric, Igor, Kar, Biswajit *Spring 2010*)

Denton A. Cooley Cardiovascular Surgical Society and Michael E. DeBakey International Surgical Society Hold Historic First Joint Meeting (*Spring 2010*)

Drs. Denton A. Cooley and James T. Willerson Receive Scientific Achievement Awards (*Summer 2010*)

Senior Research Scientist Joins THI at St. Luke's (*Summer 2010*)

Texas Heart Institute at St. Luke's Episcopal Hospital Is Ranked Among the Nation's Top 10 Heart Centers (Cooley, Denton A., Willerson, James T. *Fall 2010*)

Texas Heart Institute Establishes a Center for Women’s Heart & Vascular Health (Coulter, Stephanie. *Winter 2011*)
New Research Program to Examine Houston Middle-School Students for Heart Conditions Associated With Sudden Cardiac Death (Winter 2011)

Former First Lady Laura Bush Received 2011 Denton A. Cooley Leadership Award (Spring 2011)

Texas Heart Institute at St. Luke’s Episcopal Hospital Is Ranked Among the Nation’s Top 10 Heart Centers for the 21st Consecutive Year (Summer 2011)

THI Physicians Investigating New Percutaneous Valve System in Nationwide Trial (Summer 2011)

THI's Center for Coronary Artery Anomalies and Its Kinder Outreach Program (Willerson, James T., Angelini, Paolo Fall 2011)

THI Establishes a Center for Heart Valve Disease (Carabello, Blase, Fish, R. David Fall 2011)

Denton A. Cooley, MD, Texas Heart Institute Founder, Publishes His Memoir (Cooley, Denton A. Winter 2012)

Texas Heart Institute Launches Its First App (Willerson, James T. Winter 2012)