

# Richard Shemin, M.D.



## AWARDS

- Thoracic Surgery Foundation for Research & Education – Outstanding Leadership Award
- Distinguished Alumnus Award, Boston University School of Medicine
- Physician of the Year, The National Republican Congressional Committee's Physicians' Advisory Board
- America's Top Doctors, Castle Connolly Medical. Ltd.
- Boston University Distinguished Alumni Award

## RESEARCH INTERESTS

- Minimally invasive aortic valve replacement
- Atrial fibrillation
- Bridge to heart transplant therapy
- 3D stem cell culture systems

## CURRENT RESEARCH PROJECTS

- AtriCure Synergy Bipolar RF Energy Lesions for Non-paroxysmal forms of Atrial Fibrillation during Concomitant On-Pump Endo/Epicardial Cardiac Surgery
- SynCardia temporary Total Artificial Heart and Freedom Driver
- Edwards Intuity Valve System for Aortic Valve Replacement
- Edwards Transcatheter Aortic Valve Replacement

## PUBLICATIONS

Risk stratification in patients with advanced heart failure requiring biventricular assist device support as a bridge to cardiac transplantation. Cheng RK, Deng MC, Tseng CH, Shemin RJ, Kubak BM, MacLellan WR. J Heart Lung Transplant. 2012 Aug;31(8):831-8.

2012 HRS/EHRA/ECAS Expert Consensus Statement on Catheter and Surgical Ablation of Atrial Fibrillation: recommendations for patient selection, procedural techniques, patient management and follow-up, definitions, endpoints, and research trial design. Calkins H, Kuck KH, Cappato R, Brugada J, Camm AJ, Chen SA, Crijns HJ, Damiano RJ Jr, Davies DW, DiMarco J, Edgerton J, Ellenbogen K, Ezekowitz MD, Haines DE, Haissaguerre M, Hindricks G, Iesaka Y, Jackman W, Jalife J, Jais P, Kalman J, Keane D, Kim YH, Kirchhof P, Klein G, Kottkamp H, Kumagai K, Lindsay BD, Mansour M, Marchlinski FE, McCarthy PM, Mont JL, Morady F, Nademanee K, Nakagawa H, Natale A, Nattel S, Packer DL, Pappone C, Prystowsky E, Raviele A, Reddy V, Ruskin JN, Shemin RJ, Tsao HM, Wilber D. Europace. 2012 Apr;14(4):528-606. Epub 2012 Mar 1.

Thoracic Surgery Workforce: report of STS/AATS Thoracic Surgery Practice and Access Task Force--Snapshot 2010. Shemin RJ, Ikonomidis JS. Ann Thorac Surg. 2012 Jan;93(1):348-55, 355.e1-6.

The effect of vitronectin on the differentiation of embryonic stem cells in a 3D culture system. Heydarkhan-Hagvall S, Gluck JM, Delman C, Jung M, Ehsani N, Full S, Shemin RJ. Biomaterials. 2012 Mar;33(7):2032-40. Epub 2011 Dec 12.

Hybrid coaxial electrospun nanofibrous scaffolds with limited immunological response created for tissue engineering. Gluck JM, Rahgozar P, Ingle NP, Rofail F, Petrosian A, Cline MG, Jordan MC, Roos KP, MacLellan WR, Shemin RJ, Heydarkhan-Hagvall S. J Biomed Mater Res B Appl Biomater. 2011 Oct;99(1):180-90. doi: 10.1002/jbm.b.31885. Epub 2011 Jul 5.

Vertebral artery dissection after iatrogenic cervical subcutaneous emphysema. Rabkin DG, Benharash P, Shemin RJ. J Card Surg. 2011 Jan;26(1):54-6. doi: 10.1111/j.1540-8191.2010.01150.x. Epub 2010 Nov 14.

Minimally invasive versus conventional aortic valve replacement: a 10-year experience. Korach A, Shemin RJ, Hunter CT, Bao Y, Shapira OM. J Cardiovasc Surg (Torino). 2010 Jun;51(3):417-21.