

*CURRICULUM VITAE*  
**Allan S. Stewart, M.D.**

Office Address: Department of Cardiothoracic Surgery  
Mount Sinai Health System  
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Date of Birth: July 11, 1969

Spouse Donatella Arpaia Stewart

Licensure: DEA BS6446391  
New York 224040  
New Jersey 25MA08333600  
South Carolina 28523  
Virginia 0101-239249  
Pennsylvania MD-062633-L

Board Certification: American Board of Surgery #47885 Date: 2/3/03  
American Board of Thoracic Surgery #7429 Date: 6/4/05

Education:

9/1/87-5/30/91 B.S. St. Peters College (Biology in *cursu honorum*)  
*Magna Cum laude*  
Jersey City, New Jersey

8/28/91-5/25/95 M.D. University of Medicine & Dentistry of New Jersey  
*Alpha Omega Alpha*  
Newark, New Jersey

Postgraduate Training:

6/15/95-6/15/96	Intern, General Surgery Hospital of the University of Pennsylvania Philadelphia, PA
6/16/96-6/30/98	Resident, General Surgery Hospital of the University of Pennsylvania Philadelphia, PA
7/1/98-6/30/00	Postdoctoral Research Fellow Div of Cardiothoracic Surgery/Dept of Physiology University of Pennsylvania, School of Medicine Philadelphia, PA
7/1/00-6/30/02	Chief Resident, General Surgery Hospital of the University of Pennsylvania Philadelphia, PA
7/1/02-6/15/04	Resident, Cardiothoracic Surgery Columbia University Medical Center New York, NY
7/1/04-12/31/04	Fellow, Ventricular Assist Program Columbia University Medical Center New York, NY

Faculty Appointments:

7/1/04- 12/31/04	Instructor in Clinical Surgery Department of Surgery, Division of Cardiothoracic Surgery College of Physicians & Surgeons of Columbia University New York, New York
1/1/05-11/13	Assistant Professor of Surgery Department of Surgery, Division of Cardiothoracic Surgery College of Physicians & Surgeons of Columbia University New York, New York
11/13-Present	Associate Professor of Cardiothoracic Surgery Icahn School of Medicine Mount Sinai Health System New York, New York

### Hospital Appointments

11/1/13-Present	Director, Aortic Surgery Program Co-Director, Valve Repair Center Mount Sinai Health System
7/1/04-11/13	Director, Aortic Surgery Program Department of Surgery, Division of Cardiothoracic Surgery New York Presbyterian Hospital Columbia University Medical Center
2/20/06-11/13	Attending Surgeon Bon Secours Maryview Medical Center Bon Secours Heart Institute Portsmouth, VA
12/07-11/13	Attending Surgeon Bon Secours St. Francis Hospital Bon Secours Heart Institute Greenville, SC
12/07-11/13	Attending Surgeon The Valley Hospital Ridgewood, New Jersey
12/07-11/13	Attending Surgeon Arnot Ogden Medical Center Elmira, New York

### Honors and Awards:

1994	<i>Alpha Omega Alpha</i> Honor Medical Society
1996	Surgical Scholar Award University of Pennsylvania Medical Center
1997	Surgical Scholar Award University of Pennsylvania Medical Center
1998	Surgical Scholar Award University of Pennsylvania Medical Center

- 1999 Surgical Scholar Award  
University of Pennsylvania Medical Center
- 1999 Young Investigator Award Recipient  
Pennsylvania Association of Thoracic Surgery
- 1999 Young Investigator Award Recipient  
Institute of Human Gene Therapy
- 1999 Vivian Thomas Young Investigator Award Recipient  
American Heart Association
- 2000 Surgical Scholar Award  
University of Pennsylvania Medical Center
- 2000 Young Investigator Award Recipient  
Pennsylvania Association of Thoracic Surgery
- 2000 Young Investigator Award Finalist  
Institute of Human Gene Therapy
- 2000 C. Walton Lillehei Young Investigator Award Recipient  
American Association of Thoracic Surgery
- 2007 Membership Society of Thoracic Surgeons
- 2008 Fellowship, American College of Surgeons
- 2010 Membership American Association of Thoracic Surgeons
- 2010 Finisher New York City Olympic Triathlon
- 2010 Finisher New York City Marathon
- 2011 Heartvalvesurgery.com featured surgeon
- 2011 Castle Connolly America's Top Doctors
- 2011 Castle Connolly Best Doctor's in New York Metro Area
- 2011 Castle Connolly Best Doctor's in New York
- 2012 Castle Connolly America's Top Doctors
- 2012 Castle Connolly Best Doctor's in New York Metro Area

2013 American Heart Association Young Professional Award

2013 Castle Connelly America's Top Doctors

2013 Castle Connelly Best Doctors in New York Metro Area

2013 Castle Connelly Best Doctors in New York

Peer Reviewer

Journal of Thoracic and Cardiovascular Surgery  
Annals of Thoracic Surgery

Membership in Professional and Scientific Societies:

*Alpha Omega Alpha* Honor Medical Society  
Association of Academic Surgeons  
American Association of Thoracic Surgeons  
American College of Surgeons  
American Heart Association-CVACVS  
American Medical Association  
International Society for Heart and Lung Transplantation  
New York Society for Thoracic Surgery-COUNCIL MEMBER  
Society of Thoracic Surgeons  
New York County Medical Society  
United States Association of Triathletes  
New York Road Runners

Research Interests:

Advanced Circulatory Management During Complex Aortic Surgery  
Valve-Sparing Aortic Root Replacement  
Bicuspid Valve Disease  
Histopathology of Ascending Aortic Aneurysms  
Thoracic Endografting  
Fenestrated Graft Technology For Arch Aneurysms

Original Papers-Peer Reviewed Journals:

1. Harrison DM, Holman, M, **Stewart, AS**, et al. Neoadjuvant Chemotherapy and Orthotopic Liver Transplantation for Hepatocellular Carcinoma. *N J Med* 1995;92(8):519-22.
2. **Stewart AS**, Harrison, DM, Holman, M, Koneru, B. Reduction in Hospital Stay After Liver Transplantation. *Transplant Proc* 1996;28(2):896.
3. **Stewart AS**, Smythe, WR, Aukburg S, Kaiser LR, Bavaria JE. Severe acute extrinsic airway compression by mediastinal tumor successfully managed with extracorporeal membrane oxygenation. *ASAIO Journal* 1998;44(3):219-21.
4. **Stewart AS**, Bish LT, Chattergee S, Sweeney HL, Gardner TJ. Transfection of Arginine Kinase Prevents Ischemia-Induced Apoptosis. *Circulation* 2000;102(18):II-579.
5. Bridges CR, Burkman JM, Malekan R, Koing SK, Yarnell CB, Jobes C, **Stewart AS**, et al. Use of Cardiopulmonary Bypass with In Situ Cardiac Isolation to Achieve Global Cardiac-Specific Transgene Expression in the Canine Heart. *Circulation* 2000;102(18):II-7.
6. **Stewart AS**, Bish LT, Chattergee S, Sweeney HL, Gardner TJ. Gene Transfer of HGF is Superior to TMMR in Effecting Coronary Neovascularization. *Surgical Forum* 2000; Vol LI:115-117.
7. **Stewart AS**, Zhu HL, Taylor MD, Vijayasathy C, Gardner TJ, Sweeney HL. Blocking Free radical Production via Adenoviral Gene Transfer Decreases Cardiac Ischemia-Reperfusion Injury. *Mol Therapy* 2000;2(5):470-5.
8. **Stewart AS**, Gorman RC, Pochettino A, Rosengard BR, Acker MA. Left Ventricular Assist Device for Right Side Support in Patients with Transposition. *Annals of Thoracic Surgery* 2002;74(3):912-14.
9. Chattergee S, **Stewart AS**, Bish LT, Jayasanker V, Kim EM, Pirolli T, Burdick J, Woo YJ, Gardner TJ, Sweeney HL. Viral Gene Transfer of the Antiapoptotic Factor Bcl-2 Protects Against Chronic Postischemic Heart Failure. *Circulation* 2002;106:1212-7.
10. Bridges CR, Burkman JM, Malekan R, Konig SM, Chen H, Gardner TJ, **Stewart AS**, Stecker NM, Patterson T, Stedman HH. Global Cardiac-Specific Transgene Expression Using Cardiopulmonary Bypass with Cardiac Isolation. *Annals of Thoracic Surgery* 2002;73(6):1939-46.
11. Chattergee S, Bish LT, **Stewart AS**, Jayasanker V, Woo YJ, Crow MT, Gardner TJ, Sweeney HL. Blocking the Development of Postischemic Cardiomyopathy with Viral Gene Transfer of the Apoptosis Repressor with Caspase Recruitment Domain. *Journal of Thoracic and Cardiovascular Surgery* 2003;125(6):1461-9.

12. Morgan JA, **Stewart AS**, Lee BJ, Oz MC, Naka Y. Role of ABIOMED BVS 5000 device for short-term support and bridge to transplantation. *ASAIO Journal* 2004;50(4):360-3.
13. Dang NC, **Stewart AS**, Kay J, Mercado ML, Kruger KH, Topkara VK, Oz MC. Simplified placement of multiple artificial mitral valve chords. *Heart Surgery Forum*. 8(3):E129-31, 2005.
14. Russo MJ, Chen JM, Hong KN, **Stewart AS**, Ascheim DD, Argenziano M, Mancini DM, Oz MC, Naka Y. Columbia University Heart Transplant Outcomes Research Group. Survival after heart transplantation is not diminished among recipients with uncomplicated diabetes mellitus: an analysis of the United Network of Organ Sharing database. *Circulation*. 114(21):2280-7, 2006 Nov 21.
15. Russo MJ, Chen JM, Sorabella RA, Martens TP, Garrido M, Davies RR, George I, Cheema FH, Mosca RS, Mital S, Ascheim DD, Argenziano M, **Stewart AS**, Oz MC, Naka Y. The effect of ischemic time on survival after heart transplantation varies by donor age: an analysis of the United Network for Organ Sharing database. *Journal of Thoracic & Cardiovascular Surgery*. 133(2):554-9, 2007 Feb
16. Wu HD, Maurer MS, Friedman RA, Marboe CC, Ruiz-Vazquez EM, Ramakrishnan R, Schwartz A, Tilson MD, **Stewart AS**, Winchester R. The lymphocytic infiltration in calcific aortic stenosis predominantly consists of clonally expanded T cells. *Journal of Immunology*. 178(8):5329-39, 2007 Apr 15.
17. Svensson, LG, Dewey T, Kapadia S, Roselli E, **Stewart A**, Williams M, Anderson WN, Brown D, Leon M, Lytle B, Moses J, Mack M, Tuzcu M, and Smith CR. United States Feasibility Study of Transcatheter Insertion of a Stented Aortic Valve by the Left Ventricular Apex *Ann. Thorac. Surg.*, July 2008; 86: 46 - 55.
18. **Stewart AS**, Russo MJ, Martens TP, Naseem TM, Deng MC, Wang R, Argenziano M, Oz M, Naka Y. Longer duration of continuous-flow ventricular assist device support predicts greater hemodynamic compromise after return of pulsatility. *Journal of Thoracic & Cardiovascular Surgery*. 136(2):524-5, 2008 Aug.
19. Tabata M, , Takayama H, Bowdish M, Smith CR, **Stewart AS**. Modified Bentall Operation with Bioprosthetic Valved Conduit: Columbia University Experience. *Annals of Thoracic Surgery*. 87(6):1969-70 2009 Jun.
20. Takayama H, Smith CR, Bowdish ME, **Stewart AS**. Open Distal Anastomosis Using Axillary Cannulation and Open Distal Anastomosis. *Journal of Thoracic & Cardiovascular Surgery*. 137(6):1450-3, 2009 Jun.
21. Russo M, Davies RA, Hong K, Chen J, Argenziano MA, Moskowitz M, Ascheim DD, George I, **Stewart AS**, Williams M, Gelijns A, Naka Y. Matching High-Risk Recipients With Marginal Donor Organs Is a Clinically Effective Strategy. *Ann*

*Thorac Surg* 2009; 87:1066-71.

22. George I, Bacchetta M, **Stewart A**. Stentless Bioprosthesis in a Valved Conduit: Implications for Pulmonary Reconstruction *Ann Thorac Surg* 2009;88:2022-2024
23. Xydas S, Wei B, Takayama H, Russo M, Bacchetta, Smith CR, **Stewart AS**. Use of Carotid-subclavian bypass and thoracic endovascular repair to minimize cerebral ischemia in total arch reconstruction. *Journal of Thoracic and Cardiovascular Surgery* 139(3):717-22
24. Wei B, Steilgen KL, Bacchetta M, **Stewart AS**.. Simultaneous Pulmonary Embolectomy and Aortic Root Replacement. *Thorac and Cardiovasc Surg* 2009;57(8); 501-503.
25. Russo M, Hong KN, Davies RR, Chen JM, Sorabella RA, Ascheim DD, Williams MR, Gelijns AC, **Stewart AS**, Michael Argenziano MA, and Naka Y. Posttransplant survival is not diminished in heart transplant recipients bridged with implantable left ventricular assist devices. *Journal of Thoracic & Cardiovascular Surgery* 2009;138:1425-32.
26. . Leon, M.B., Kodali, S., Williams, M., Oz, M., Smith, C., **Stewart, A.**, Schwartz, A., Collins, M., Moses, J.W. Transcatheter Aortic Valve Replacement in Patients with Critical Aortic Stenosis: Rationale, Device Descriptions, Early Clinical Experiences, and Perspectives Seminars in Thoracic and Cardiovascular Surgery volume 18, issue 2, year 2006, pp. 165 – 175.
27. **Stewart A**, Takayama H, Smith C. Modified Bentall Procedure with a Novel Stentless Biologic Conduit. *Ann Thorac Surg* 2010; 89:938-41.
28. Takayama H, Naka Y, Jorde U, **Stewart AS**. Less Invasive Left Ventricular Assist Device Placement for Difficult Resternotomy. *JTCVS* 140(4):932-3, 2010 Oct.
29. Wei B, Steijlen KL, **Stewart AS**, Bacchetta MD. Simultaneous pulmonary embolectomy and aortic root replacement. *Thoracic and Cardiovascular Surgeon* 57(8):501-3, 2009 Dec.
30. Wu HD, Friedman RA, Marboe CC, Ruiz-Vazquez EM, Ramakrishnan R, Schwartz A, Tilson MD, Winchester R **Stewart AS**.. Circulating activated and effector memory T cells are associated with calcification and clonal expansions in bicuspid and tricuspid valves of calcific aortic stenosis. *Journal of Immunology*. 187(2):1006-14, 2011 Jul 15.
31. Iribane A, Russo MJ, Easterwood R, Yang J, **Stewart AS**. Designing a



Stentless valved conduit for use in the Biological Bentall Procedure. *J Heart Valve Disease* 20(5):590-2, 2011 Sept.

32. Ben-Gal, Y, Stone G,W. Smith, CR. Williams M, Weisz G,. **Stewart AS**. Takayama H, Genereux P. Argenziano MA. On-pump versus off-pump surgical revascularization in patients with acute coronary syndromes: analysis from the Acute Catheterization and Urgent Intervention Triage Strategy trial. *Journal of Thoracic & Cardiovascular Surgery*. 142(2):e33-9, 2011 Aug.
33. Russo MJ. Easterwood R. Williams MR. George I. **Stewart AS**. Aortic root and right ventricular outflow tract reconstruction using composite biological valved conduits after failed Ross procedure. *Ann Thorac Surg*. 91(6):e87-9, 2011 Jun.
34. Mavroudis CD, Molina E, **Stewart AS**. Cerebral Protection for Aortic Arch Surgery: Hybrid Approach *Sem Thor & Cardiovasc Surg*. 24(4) 302-04. 2012

#### BOOK CHAPTERS:

1. **Stewart AS**, Markmann J. Hepatobiliary System. *The Surgical Review: An Integrated Basic and Clinical Science Study Guide* (2001): 256-272.
2. **Stewart AS**, Agarwaal S. Circulation Management During Aortic Surgery. *On Bypass: A Clinical Manual For Cardiopulmonary Perfusion*. Ed. Mongero and Beck. Huimana Press 2008.

#### EDITORIALS

1. **Stewart AS**. Why are we still talking about open repair of descending aortic aneurysms? *J Thorac Cardiovasc Surg* 2008;136:278-9
2. **Stewart AS**, Smith CR . Transcatheter Valve Therapy.: A Surgeon's Perspective. *EuroInterv*.2007;3:25-27

#### ABSTRACTS/ORAL PRESENTATIONS:

1. delaTorre A, **Stewart A**, Holman M, Koneru B. Neutrophils and Ischemia/Reperfusion Injury in Human Liver Transplantation. American Society of Transplant Surgeons (Chicago, IL) 1995
2. **Stewart AS**, Pocchetino A, O'Hara ML, Rosengard BR, Gardner TJ, Acker MA. Surgical Management of LVAD Infections. European Association of Cardiothoracic Surgery. (Glasgow, Scotland) Sept 1999
3. **Stewart AS**, Vahedi M, Vavra ML, Gardner TJ, Pochettino A, Acker MA. Treatment of Septicemia in LVAD Patients by Explantation Cardiectomy, and Transplantation. 37<sup>th</sup> Annual Meeting of The Pennsylvania Association For Thoracic Surgery (Skytop, PA) Sept 1999
4. **Stewart AS**, Zhu HL, Taylor MD, Vijayasarathy C, Sweeney HL, Gardner TJ. Overexpression of Catalase by Adenoviral Mediated Gene Transfer Reduces Myocardial Apoptosis and Infarct Size Following I/RP in Rabbits. 37<sup>th</sup> Annual Meeting of The Pennsylvania Association For Thoracic Surgery (Skytop, PA) Sept 1999
5. **Stewart AS**, Taylor MD, Zhu HL, Walter GM, Gardner TJ, Sweeney HL. Supporting Myocardial ATP Demand With Novel Sources of High Energy Phosphate. Annual Meeting of The Institute For Human Gene Therapy (Absecon, NJ) October 1999.
6. **Stewart AS**, Crawford C, Sweeney HL, Gardner TJ. Hepatocyte Growth Factor Mediates Therapeutic Coronary Neovascularization. 85<sup>th</sup> Clinical Congress American College of Surgeons (San Francisco, CA) October 1999
7. **Stewart AS**, Taylor MD, Walter GM, Gardner TJ, Sweeney HL. Viral Gene Transfer of Arginine Kinase Provides a Novel Means of Myocardial Protection. American Heart Association (Atlanta, GA) Nov 1999
8. **Stewart AS**, Walter GM, Barton BA, Gardner TJ. Elimination of Myocardial Stunning With Arginine Kinase. Pennsylvania Muscle Institute Annual Meeting (Philadelphia, PA) Nov 1999
9. **Stewart AS**, O'Hara ML, Pochettino A, Rosengard BR, Gorman RC, Vahedi M, Carboni A, DeNofrio D, Kao A, Goldberg L, Jessup M, Brozena S, Blumberg E, Loh E, Acker MA. Transplantation: A Definitive Treatment For Assist Device Infection. International Society of Heart and Lung Transplantation (Osaka, Japan) April 2000
10. **Stewart AS**, Zhu HL, Bish LT, Theiser DM, Gardner TJ, Sweeney HL. Viral Mediated Transfer of Bcl-2 Reduces Post-Infarct Remodeling in the Rabbit. American Association of Thoracic Surgery (Toronto, Canada) May 2000
11. **Stewart AS**, HL Zhu, LT Bish, HL Sweeney, TJ Gardner. Gene Transfer of Arginine Kinase Prevents Ischemic Cell Death. 38<sup>th</sup> Annual Meeting of the Pennsylvania Association of Thoracic Surgery (Bermuda) Oct 2000

12. S Chatterjee, **AS Stewart**, LT Bish, HL Sweeney, TJ Gardner. Translational Gene Therapy: Moving From the Benchtop to the Operating Room. 38<sup>th</sup> Annual Meeting of the Pennsylvania Association of Thoracic Surgery (Bermuda) Oct 2000
13. **Stewart AS**, Bish LT, Chatterjee S, Sweeney, HL, Gardner TJ. Gene Transfer of HGF is Superior to TMMR in Inducing Coronary Neoangiogenesis. 86<sup>th</sup> Annual Meeting of the American College of Surgeons, Surgical Forum (Chicago, Il) Oct 2000

SAMPLE OF INVITED LECTURES (LAST TWO YEARS).

1. Transcatheter Therapeutics (TCT) Washington DC, 2006:
  - i. -Transcatheter Valve Therapy: A Global Update
  - ii. -Off-label Use of Thoracic Aortic Stent Grafts
  - iii. -The Great Debate: AVR will continue to be the Treatment of Choice over TCAVR
2. PICS/AICS Las Vegas, NV 2006
  - i. -Minimally Invasive Aortic Valve Replacement
  - ii. -Aortic Valve Repair: What the Cardiologist Should Know
3. Transcatheter Therapeutics (TCT) Washington DC 2007
  - i. -Aortic Valve Repair: Fact of Fiction
  - ii. -Hybrid Approaches to the Aortic Arch
  - iii. -Challenges in Access for Transcatheter Valve Therapy
4. PICS/AICS Las Vegas, NV 2007
  - Transapical Valve Placement: A Global Update
5. St. Jude CAB Meeting New York, NY 12/2007
  - Can the Surgeon Own the Percutaneous Valve Space?
6. STAMFORD HOSPITAL GRAND ROUNDS 11/2007
  - THE STATUS OF VALVE SPARING ROOT REPLACEMENT
7. ALLEGANY HOSPITAL GRAND ROUNDS 2/2008
  - PERCUTANEOUS VS. OPEN MITRAL VALVE REPAIR
8. Transcatheter Therapeutics (TCT) San Francisco, CA 2008, 2009, 2010, 2011
  - i. Valve Sparing Root Surgery: Clinical Update 2009
  - ii. The Great Debate: LMCA stenting vs. CABG
  - iii. Innovations in Cardiac Surgery: The Columbia Bioroot
9. AATS Valve Symposium Chicago IL 2009
  1. -Moderate AI: Repair, Replace, or Ignore
  2. -Valve Spairng Root Replacement: When, Why, How
  3. -Mechanical Valve Replacement vs. BioBentall

4.  
10. AATS Aortic Symposium New York, NY 2010 Composite Biologic Graft Replacement of the Ascending Aorta

## CARDIAC SURGERY INTERNATIONAL OUTREACH

Almaty, Kazhkstan 2009  
Kuwait City, Kuwait 2010  
Glasgow, Scotland 2011  
Melbourne, Australia 2011  
Taiwan 2012  
Shanghai, China 2012

## Television Appearances

Rachel Maddow Show 2010  
Good Day New York 2010  
NYMED 2012  
NYMED 2013

## Social Media Initiatives

[www.aorticdissection.com](http://www.aorticdissection.com)  
[www.heartvsalvesurgery.com](http://www.heartvsalvesurgery.com)  
[www.heartosaurus.com](http://www.heartosaurus.com)  
[www.triyourheartout.org](http://www.triyourheartout.org)

## Hobbies/Outside Interests:

Triathlon  
Ironman Competition  
Marathon  
Cycling