

## CURRICULUM VITAE

**Name:** Farzan Filsoufi, M.D.

**Address:** Department of Cardiothoracic Surgery  
Mount Sinai Medical Center  
1190 Fifth Avenue  
New York, NY 10029

### Summary of Major Academic Activities in Cardiac Surgery:

- ***Design and construction of a mitral valve database:*** including more than 1000 patients leading to several investigational studies in the field of mitral valve reconstructive surgery.
- ***Construction of a cardiac surgery database:*** including more than 10,000 patients leading to the design of more than 50 original clinical research studies (see bibliography).
- ***Carpentier's reconstructive valve surgery:*** A comprehensive and unique textbook in reconstructive valve surgery written in collaboration with Drs. Carpentier and Adams which was published in spring 2010.
- ***Themitralvalve.org:*** A comprehensive educational website on valvular heart disease with a particular emphasis on mitral valve pathology. This website traces the history of valvular heart disease over a five-century period. The Historic Review section includes more than 1000 original historical illustrations and more than 2500 pages of original texts from a personal collection. The Current Status section describes the state-of-the-art management of patients with valvular heart disease with case study and video surgery components. The editorial board of the website is composed of world leaders specializing in valvular heart disease.
- ***Perioperative Care in Cardiac Surgery:*** A textbook regarding the perioperative management of patients undergoing all types of cardiac procedures in the modern era. This textbook is composed of 36 chapters and is edited by myself and Dr. Alain Carpentier. It is scheduled for publication in 2016.

## Training Record

<b>Name</b>	<b>Level of Learner - Role in Training Current Institution and Employment</b>	<b>Inclusive Dates of Training</b>
<b>Saeid Farivar, MD</b>	<b>Resident-Associate Surgeon/Research Lab Surgical Attending, University of Iowa</b>	<b>2000-2001</b>
<b>Curtis Anderson, MD</b>	<b>Resident-Associate Surgeon/Research Lab Surgical Attending, East Carolina University</b>	<b>2000-2001</b>
<b>Manu Mathur, MD</b>	<b>Fellow-Surgical Attending/OR, ICU, Step-down Surgical Attending, Sydney, Australia</b>	<b>2001-2002</b>
<b>Tan Ee Teing, MD</b>	<b>Fellow-Surgical Attending/OR, ICU, Step-down Surgical Attending, Singapore</b>	<b>2002-2003</b>
<b>Kirk McMurtry, MD</b>	<b>Resident- Surgical Attending/OR, ICU, Step-down Surgical Attending, Englewood Hospital</b>	<b>2002-2003</b>
<b>Ramin Malekan, MD</b>	<b>Resident-Surgical Attending/OR, ICU, Step-down Surgical Attending, Westchester Medical Center</b>	<b>2002-2004</b>
<b>George Tolis, MD</b>	<b>Fellow -Surgical Attending/OR, ICU, Step-down Surgical Attending, St. Elizabeth's Hospital, Boston</b>	<b>2002-2003</b>
<b>Sephre Naficy, MD</b>	<b>Fellow-Surgical Attending/ ICU, Step-down Cardiothoracic Fellow, UC Davis, CA</b>	<b>2002-2003</b>
<b>Aaron Wu, MD</b>	<b>Fellow-Surgical Attending/OR, ICU, Step-down Surgical Attending, Taiwan</b>	<b>2003-2004</b>
<b>Rawn Salenger, MD</b>	<b>Fellow- Surgical Attending/OR, ICU, Step-down Surgical Attending, Good Samaritan Hospital, New York</b>	<b>2004-2005</b>
<b>Rohit Shahani, MD</b>	<b>Resident-Surgical Attending/OR, ICU, Step-down Surgical Attending, Hudson Cardiothoracic Surgery, New York</b>	<b>2003-2005</b>
<b>Pankaj Kulshrestha, MD</b>	<b>Resident-Surgical Attending/OR, ICU, Step-down Surgical Attending, Dayton Cardiac Surgery, Ohio</b>	<b>2003-2005</b>
<b>Marianne Coutu, MD</b>	<b>Fellow -Surgical Attending/OR, ICU, Step-down Surgical Attending, Montreal</b>	<b>2004-2005</b>
<b>Anelechi Anyanwu, MD</b>	<b>Fellow- Surgical Attending/OR, ICU, Step-down Surgical Attending, Mount Sinai Medical Center</b>	<b>2004-2006</b>
<b>Cynthia Chin, MD</b>	<b>Resident Surgical Attending/ICU, Step-down Surgical Attending, White Plains Hospital</b>	<b>2004-2005</b>

## Training Record

Name	Level of Learner - Role in Training Current Institution and Employment	Inclusive Dates of Training
Gabriele Di Luozzo, MD	Fellow-Surgical Attending/OR, ICU, Step-down Surgical Attending, Mount Sinai Medical Center	2005-2006
Henry Tannous, MD	Resident-Surgical Attending/OR, ICU, Step-down Surgical Attending, Mount Sinai Medical Center	2005-2008
Joanna Chikwe, MD	Fellow-Surgical Attending/OR, ICU, Step-down Surgical Attending, Mount Sinai Medical Center	2006-2008
Alexander Wohler, MD	Resident-Surgical Attending/OR, ICU, Step-down Surgical Attending, St. Joseph's Children Hospital	2006-2009
Shinobu Itagaki, MD	Resident-Surgical Attending/OR, ICU, Step-down Research Fellow, Mount Sinai Medical Center	2006-2011
Federico Milla, MD	Resident-Surgical Attending/OR, ICU, Step-down Surgical Attending, Mount Sinai Medical Center	2007-2010
Indran Ramanathan, MD	Fellow-Surgical Attending/OR, ICU, Step-down Cardiothoracic Fellow, Brigham and Women's Hospital	2007-2008
George Berberian, MD	Instructor-Surgical Attending/OR, ICU, Step-down Surgical Attending, Connecticut	2008-2009
Adanna Akujuo, MD	Instructor-Surgical Attending/OR, ICU, Step-down Surgical Attending, Utica	2008-2010
Krishan Kewal, MD	Fellow-Surgical Attending/OR, ICU, Step-down	2008-2010
Christian Etz, MD	Fellow-Surgical Attending/OR, ICU, Step-down Surgical Attending, Leipzig	2009-2010
Dan Lee, MD	Resident-Surgical Attending/OR, ICU, Step-down Surgical Attending, Mount Sinai Medical Center	2009 – 2011
Brian Whang, MD	Instructor- Surgical Attending/OR, ICU, Step-down Surgical Attending, Baptist Cardiothoracic Surgical Group	2009–2011
Robin Varghese, MD	Instructor- Surgical Attending/OR, ICU, Step-down Surgical Attending, Mount Sinai Medical Center	2009 – 2011

## Training Record

Name	Level of Learner - Role in Training Current Institution and Employment	Inclusive Dates of Training
Ahmed El-Eshmawi, MD	Fellow-Surgical Attending/OR, ICU, Step-down	2010-2012
Amit Pawale, MD	Resident-Surgical Attending/OR, ICU, Step-down	2010-2015
Mitsuko Takahashi, MD	Resident-Surgical Attending/OR, ICU, Step-down	2010-2012
Aaron Weiss, MD	Resident-Surgical Attending/OR, ICU, Step-down	2011-
Javier Castillo, MD	Resident-Surgical Attending/OR, ICU, Step-down	2011-
Gilbert Tang, MD	Fellow-Surgical Attending/OR, ICU, Step-down Surgical Attending, Westchester Medical Center	2010- 2011
Vassilios Avlonitis, MD	Fellow-Surgical Attending/OR, ICU, Step-down Bristol Heart Institute, Bristol Royal Infirmary, Bristol United Kingdom	2010- 2012
Vincent Chan, MD	Fellow-Surgical Attending/OR, ICU, Step-down Surgical Attending, University of Ottawa-heart institute, Ottawa Canada	2010- 2012
Mark Shapiro, MD	Fellow-Surgical Attending/OR, ICU, Step-down	2011-2013
Percy Boateng, MD	Fellow-Surgical Attending/OR, ICU, Step-down	2012-2013
Vincente Orozco-Sevilla, MD	Fellow-Surgical Attending/OR, ICU, Step-down	2012-2014
Bobby Yanagawa, MD	Fellow-Surgical Attending/OR, ICU, Step-down	2013-2015
Gianluca Torregrossa, M	Fellow-Surgical Attending/OR, ICU, Step-down	2013-2015
Shinobu Itagaki, MD	Fellow-Surgical Attending/OR, ICU, Step-down	2015-
Stephen Spindel, MD	Fellow-Surgical Attending/OR, ICU, Step-down	2015-

## Teaching Activities

Teaching Activity/Topic	Level	Role	Number of Learners	Number of hours per week/month/year	Years Taught
Cardiothoracic Surgical Conference	Department Level	Director	40-50	1 hour per week	2002-2008
Journal Club	Faculty & Residents	Director	20	12 hours/year	2003-2005
Morbidity and Mortality Conference	Department Level	Director	40-50	2 hours/month	2002-2009
Nurse Educational Program	Nurses	Director	10-15	1 hour/month	2004-2006
Elmhurst Cath Conference	Division of Cardiology	Co-Director	20-25	2 hours/week	2002-2009
Research	Attending & Research Fellows	Director	6	2 hours/week	2004-2008
Inpatient Rounds	Faculty & Fellows	Attending	15-20	1 hour/ week	2002-present

## Grant and Contract Support

Project number: GCO 05-0873

Principal Investigator, Farzan Filsoufi, MD

Title: Application of a new device for treatment of atrial fibrillation in baboons.

Date of Project: 2005-2006

Current Direct Costs: \$86,000 approximately

## Publications

### Thesis:

**Filsoufi F.** Mitral valve repair in patients with severely depressed left ventricular function. These de Doctorat (Thesis in Medicine) January 16th 1997.

### Peer Reviewed Original Contributions: *Original Research*

1. Coggia M, Goeau-Brissoniere O, Leschi JP, **Filsoufi F.** Lateral approach to femoral bifurcation. *Ann Vasc Surg* 1994; 8(6):604-8.
2. Couetil JP, Berrebi A, Ferdinand FD, Adamopoulos C, **Filsoufi F,** Deloche A, Carpentier A. New approach for reconstruction of the pulmonary outflow tract during the Ross procedure. *Circulation* 1998; 98(19 Suppl):II368-71.
3. Aklog L, **Filsoufi F,** Flores KQ, Chen RH, Cohn LH, Nathan NS, Byrne JG, Adams DH. Does coronary artery bypass grafting alone correct moderate ischemic mitral regurgitation. *Circulation* 2001; 104[suppl I]:I-68-I-75.
4. Byrne JG, Karavas AN, Adams DH, Aklog L, Aranki SF, **Filsoufi F,** Cohn LH. The preferred approach for mitral valve surgery after CABG: right thoracotomy, hypothermia and avoidance of LIMA-LAD graft. *J Heart Valve Dis* 2001 Sep; 10(5):584-90.
5. Adams DH, **Filsoufi F,** Aklog L. Surgical treatment of the ischemic mitral valve. *J Heart Valve Dis* 2002; 11 Suppl 1:S21-5.
6. **Filsoufi F,** Aklog L, Adams DH, Byrne JG. Management of mild to moderate aortic stenosis at the time of CABG. *J Heart Valve Dis* 2002 Jan; 11 Suppl 1:S45-9.
7. Aklog L, Sepic J, **Filsoufi F,** Byrne JG, Adams DH. Open inferior vena caval anastomosis during bicaval heart transplantation. *Ann Thorac Surg* 2002; 73(2): 671-2.
8. Byrne JG, Karavas AN, **Filsoufi F,** Mihaljevic T, Aklog L, Adams DH, Cohn LH, Aranki SF. Aortic valve surgery after previous CABG with functioning IMA grafts. *Ann Thorac Surg* 2002 Mar; 73(3):779-84.
9. Anderson C, **Filsoufi F,** Farivar RS, Aklog L, Byrne JG, Adams DH. Liberal use of delayed sternal closure for postcardiotomy hemodynamic instability. *Ann Thorac Surg* 2002; 73(5):1484-8.
10. Adams DH, **Filsoufi F,** Byrne JG, Karavas AN, Aklog L. Mitral valve repair in redo cardiac surgery. *J Card Surg* 2002 Jan-Feb; 17(1):40-5.

11. Karavas AN, **Filsoufi F**, Mihaljevic T, Aranki SF, Cohn LH, Bryne JG. Risk factors and management of endocarditis after mitral valve repair. *J Heart Valve Dis* 2002 Sept; 11 (5): 660-4.
12. Farivar RS, **Filsoufi F**, Adams DH. Mechanisms of alpha-Gal expression on porcine valve endothelial cells. *J Thorac Cardiovasc Surg* 2003 Feb; 125(2):306-14.
13. **Filsoufi F**, Farivar RS, Aklog L, Anderson CA, Chen RH, Lichenstein S, Zhang Ji, Adams DH. Automated distal coronary bypass using a novel magnetic coupler (MVP™). *J Thorac Cardiovasc Surg* 2004 Jan; 127(1):185-92.
14. **Filsoufi F**, Aklog L, Byrne JG, Cohn LH, Adams DH. Current results of combined CABG and mitral annuloplasty in patients with moderate ischemic mitral regurgitation. *J Heart Valve Dis* 2004 Sept; 13(5):747-753.
15. Salzberg SP, **Filsoufi F**, Anyanwu A, von Harbou K, Gass A, Pinney SP, Carpentier A, Adams DH. High-risk mitral valve surgery: perioperative hemodynamic optimization with Nesiritide (BNP). *Ann Thorac Surg* 2005 Aug; 80(2):502-6.
16. **Filsoufi F**, Anyanwu A, Salzberg SP, Frankel T, Cohn L, Adams DH. Long-term outcome of tricuspid valve replacement in the current era. *Ann Thorac Surg* 2005; 80:845-50.
17. **Filsoufi F**, Salzberg SP, Anderson CA, Couper GS, Cohn LH, Adams DH. Optimal surgical management of severe tricuspid regurgitation in cardiac transplant recipient. *Journal of Heart and Lung Transplant* 2006; 25(3): 289-93.
18. **Filsoufi F**, Salzberg S, Coutu M, Adams DH. A three-dimensional ring annuloplasty for the treatment of tricuspid regurgitation. *Ann Thorac Surg* 2006 June; 81(6):2273-7.
19. Daimon M, Fukuda S, Adams DH, McCarthy PM, Gillinov AM, Carpentier A, **Filsoufi F**, Abascal VM, Rigolin VH, Salzberg S, Huskin A, Langenfeld, Shiota T. Mitral valve repair with Carpentier-McCarthy-Adams IMR ETlogix ring for ischemic mitral regurgitation: early echocardiographic results from a multi-center study. *Circ* 2006 Jul 4; 114(I Suppl):I588-93.
20. Salzberg SP, **Filsoufi F**, Anyanwu A, Von Harbou K, Karlof E, Carpentier A, Dansky HM, Adams DH. Increased neointimal formation after surgical vein grafting in a murine model of type 2 diabetes mellitus. *Circ* 2006 Jul 4; 114(I Suppl):I302-7.
21. Kahn RA, **Filsoufi F**. Sinus of valsalva aneurysm? *J Cardiothorac Vasc Anesth* 2006 Apr; 20(2):280-3.
22. Gehi AK, Adams DH, Salzberg SP, **Filsoufi F**. Outcomes and predictors of success of a radiofrequency or cryotherapy simplified left-sided maze procedure in patients undergoing mitral valve surgery. *J Heart Valve Dis* 2006 May; 15(3):360-8.

23. **Filsoufi F**, Salzberg SP, von Harbou Kai TJ, Neibart E, Adams DH. Excellent outcomes of cardiac surgery in patients with human immunodeficiency virus (HIV) in the current era. *Clin Infect Dis* 2006 Aug 15; 43(4):532-6.
24. Adams DH, Anyanwu AC, Rahmanian PB, **Filsoufi F**. Current concepts in mitral valve repair for degenerative disease. *Heart Fail Rev* 2006 Sep; 11(3):241-57.
25. **Filsoufi F**, Salzberg SP, Abascal V, Adams DH. Surgical management of functional tricuspid regurgitation with a new remodeling annuloplasty ring. *Mt Sinai J Med* 2006 Oct; 73(6):874-9.
26. **Filsoufi F**, Castillo JG, Rahmanian PB, Scurlock C, Fischer G, Adams DH. Effective management of refractory postcardiotomy bleeding with the use of recombinant activated factor VII. *Ann Thorac Surg* 2006 Nov; 82(5):1779-83.
27. Adams DH, Anyanwu AC, Rahmanian PB, Abascal V, Salzberg SP, **Filsoufi F**. Large annuloplasty rings facilitate mitral valve repair in Barlow's disease. *Ann Thorac Surg* 2006 Dec; 82(6):2096-101.
28. **Filsoufi F**, Salzberg SP, Rahmanian PB, Schiano T, Elsiey H, Squire A, Adams DH. Early and late outcome of cardiac surgery in patients with liver cirrhosis. *Liver Transpl* 2007 Jul; 13(7):990-5.
29. **Filsoufi F**, Rahmanian PB, Castillo JG, Scurlock C, Legnani PE, Adams DH. Predictors and outcome of gastrointestinal complications in patients undergoing cardiac surgery. *Ann Surg* 2007 Aug; 246(2):323-9.
30. Rahmanian PB, Castillo JG, Sanz J, Adams DH, **Filsoufi F**. Cardiac myxoma: preoperative diagnosis using a multimodal imaging approach and surgical outcome in a large contemporary series. *Interact Cardiovasc Thorac Surg* 2007 Aug; 6(4):479-83.
31. **Filsoufi F**, Rahmanian PB, Castillo JG, Chikwe J, Kini AS, Adams DH. Results and predictors of early and late outcome of coronary artery bypass grafting in patients with severely depressed left ventricular function. *Ann Thorac Surg* 2007 Sep; 84(3):808-16.
32. Rahmanian PB, Castillo JG, Adams DH, **Filsoufi F**. Excellent results of cardiac surgery in patients with previous liver transplantation. *Liver Transpl* 2007 Sep; 13(9):1317-23.
33. **Filsoufi F**, Rahmanian PB, Castillo JG, Chikwe J, Adams DH. Excellent results of contemporary coronary artery bypass grafting with systematic application of modern perioperative strategies. *Heart Surg Forum* 2007; 10(5):E349-56.
34. **Filsoufi F**, Rahmanian PB, Castillo JG, Mechanick JI, Sharma SK, Adams DH. Diabetes is not a risk factor for hospital mortality following contemporary coronary artery bypass grafting. *Interact Cardiovasc Thorac Surg* 2007 Dec; 6(6):753-8.
35. Anyanwu AC, **Filsoufi F**, Salzberg SP, Bronster DJ, Adams DH. Epidemiology of stroke after cardiac surgery in the current era. *J Thorac Cardiovasc Surg* 2007 Nov; 134(5):1121-7.



36. **Filsoufi F**, Castillo JG, Rahmanian PB, Carpentier AF, Adams DH. Remodeling annuloplasty using a prosthetic ring designed for correcting type-IIIb ischemic mitral Regurgitation. *Rev Esp Cardiol* 2007 Nov; 60(11):1151-8.
37. **Filsoufi F**, Rahmanian PB, Castillo JG, Pinney S, Broumand SR, Adams DH. Incidence, treatment strategies and outcome of deep sternal wound infection following orthotopic heart transplantation. *J Heart Lung Transplant* 2007 Nov; 26(11):1084-90.
38. **Filsoufi F**, Rahmanian PB, Castillo JG, Chikwe J, Carpentier A, Adams DH. Early and late outcomes of cardiac surgery in patients with moderate to severe preoperative renal dysfunction without dialysis. *Interact Cardiovasc Thorac Surg* 2008 Feb; 7(1):90-5.
39. Rahmanian PB, Adams DH, Castillo JG, Chikwe J, Bodian CA, **Filsoufi F**. Impact of body mass index on early outcome and late survival in patients undergoing coronary artery bypass grafting or valve surgery or both. *Am J Cardiol* 2007 Dec 1; 100(11):1702-8.
40. Rahmanian PB, Adams DH, Castillo JG, Chikwe J, **Filsoufi F**. Tracheostomy is not a risk factor for deep sternal wound infection after cardiac surgery. *Ann Thorac Surg* 2007 Dec; 84(6):1984-91.
41. **Filsoufi F**, Rahmanian PB, Castillo JG, Chikwe J, Silvay G, Adams DH. Excellent early and late outcomes of aortic valve replacement in people aged 80 and older. *J Am Geriatr Soc* 2008 Feb; 56(2):255-61.
42. **Filsoufi F**, Rahmanian PB, Castillo JG, Chikwe J, Silvay G, Adams DH. Results and predictors of early and late outcomes of coronary artery bypass graft surgery in octogenarians. *J Cardiothorac Vasc Anesth* 2007 Dec; 21(6):784-92.
43. **Filsoufi F**, Rahmanian PB, Castillo JG, Kahn RA, Fischer G, Adams DH. Clopidogrel treatment prior to coronary artery bypass grafting increases postoperative morbidity and blood product requirements. *J Cardiothorac Vasc Anesth* 2008 Feb; 22(1):60-6.
44. **Filsoufi F**, Rahmanian PB, Castillo JG, Chikwe J, Adams DH. Predictors and early and late outcomes of respiratory failure in contemporary cardiac surgery. *Chest* 2008 Mar; 133(3):713-21.
45. **Filsoufi F**, Rahmanian PB, Castillo JG, Bronster D, Adams DH. Incidence, topography, predictors and long term survival after stroke in patients undergoing CABG. *Ann Thorac Surg* 2008; Mar; 85 (3):862-70.
46. Rahmanian PB, Adams DH, Castillo JG, Vassalotti J, **Filsoufi F**. Outcome of cardiac surgery in dialysis patients: Single center experience with 245 consecutive patients. *J Thorac Cardiovasc Surg* 2008 Apr; 135(4):915-22.
47. Castillo JG, **Filsoufi F**, Rahmanian PB, Anyanwu A, Zacks J, Warner RP, Adams DH. Early and late results of valvular surgery for carcinoid heart disease. *J Am Coll Cardiol* 2008 Apr 15; 51(15):1507-9.

48. **Filsoufi F**, Rahmanian PB, Castillo JG, Bronster D, Adams DH. Incidence, imaging analysis, early and late outcome of stroke after cardiac valve operation. *Am J Card* 2008 May 15; 101(10):1472-8.
49. Castillo JG, Adams DH, Rahmanian PB, **Filsoufi F**. Cardiovascular surgery in patients with HIV: epidemiology, current indications and long term outcome. *Rev Esp Cardiol* 2008 May; 61(5):480-6.
50. **Filsoufi F**, Rahmanian PB, Castillo JG, Silvay J, Carpentier A, Adams DH. Predictors, early and late outcome of dialysis dependent renal failure in contemporary cardiac surgery. *J Cardiothorac Vasc Anesth* 2008 Aug; 22(4):522-9.
51. Rahmanian PB, Castillo JG, Mehta D, Adams DH, **Filsoufi F**. Epicardial pulmonary vein isolation: a long term histological and imaging animal study comparing cryotermly versus radiofrequency. *Ann Thorac Surg* 2008 Sep; 86(3):849-56.
52. **Filsoufi F**, Joan J, Chikwe J, Rahmanian PB, Castillo JG, Carpentier AF, Adams DH. Results and predictors of early and late outcome of coronary artery bypass graft surgery in patients with ejection fraction less than 20%. *Arch Cardiovasc Dis* 2008 Sep; 101(9):547-56.
53. Salzberg SP, Gillinov M, Anyanwu A, Castillo JG, **Filsoufi F**, Adams DH. Surgical left atrial appendage occlusion: evaluation of a novel device with magnetic resonance imaging. *Eur J Cardiothorac Surg* 2008 Oct; 34(4):766-70.
54. **Filsoufi F**, Rahmanian PB, Castillo JG, Chikwe J, Adams DH. Logistic risk model predicting respiratory failure in patients undergoing valve surgery. *Eur J Cardiothorac Surg* 2008 Nov; 34(5):953-9.
55. Castillo JG, **Filsoufi F**, Adams DH, Jayshree MD, Zakhu B, Fischer GW. Management of patients undergoing multivalvular surgery for carcinoid heart disease: the role of the anesthesiologist. *Br J Anaesth*. 2008 Nov; 101(5):618-26.
56. **Filsoufi F**, Chikwe J, Castillo JG, Rahmanian PB, Adams DH. Prosthesis type has minimal impact on survival after valve surgery in patients with moderate to end-stage renal failure. *Nephrol Dial Transplant* 2008 Nov; 23(11):3613-21.
57. **Filsoufi F**, Salzberg S, Rahmanian PB, Von Harbou K, Bodian C, Adams DH. B-type natriuretic peptide (BNP) in patients undergoing mitral valve surgery. *J Card Surg* 2008 Nov-Dec; 23(6):600-5.
58. Rahmanian PB, **Filsoufi F**, Castillo JG, Chikwe J, Adams DH. Predicting post operative renal failure requiring dialysis, and an analysis of long-term outcome in patients undergoing valve surgery. *J Heart Valve Dis* 2008 Nov; 17(6):657-65.

59. Rahmanian PB, **Filsoufi F**, Salzberg S, Coppolino A, Castillo JG, Adams DH. Surgical treatment of atrial fibrillation using cryotherapy in patients undergoing mitral valve surgery. *Interact Cardiovasc thorac Surg* 2008 Dec; 7(6):990-5.
60. Rahmanian PB, Adams DH, Castillo JG, Silvey G, **Filsoufi F**. Excellent results of cardiac surgery in patients with previous kidney transplantation. *J Cardiothorac Vasc Anesth* 2009 Feb; 23(1):8-15.
61. **Filsoufi F**, Castillo JG, Rahmanian PB, Chikwe J, Broumand S, Carpentier A, Adams DH. Epidemiology of deep sternal wound infection in contemporary cardiac surgery. *J Cardiothorac Vasc Anesth* 2009 Aug; 23(4):488-494.
62. Chikwe J, Croft LB, Goldstone AB, Castillo J, Rahmanian PB, Adams DH, **Filsoufi F**. Comparison of the results of aortic valve replacement with or without concomitant coronary artery bypass grafting in patients with left ventricular ejection fractions  $\leq 30\%$  vs. patients with ejections fractions  $> 30\%$ . *J Am Cardiol* 2009 Dec 15; 104(12):1717-21.
63. Rahmanian PB, Adams DH, Castillo JG, Carpentier A, **Filsoufi F**. Predicting hospital-mortality and analysis of long-term survival after major noncardiac complications in cardiac surgery patients. *Ann Thorac Surg* 2010 Oct; 90(4):1221-9.
64. Whang B, **Filsoufi F**, Fischer G, Silvey G, Reddy RC. The left thoracotomy approach for reoperative cardiac surgery: considerations for the surgeon and anesthesiologist. *J Cardiothorac Vasc Anesth* 2011 Feb; 25(1):134-9.
65. Goldstone AB, Bronster DJ, Anyanwu AC, Goldstein MA, **Filsoufi F**, Adams DH, Chikwe J. Predictors and outcomes of seizures after cardiac surgery: a multivariable analysis of 2,578 patients. *Ann Thorac Surg* 2011 Feb; 91(2):514-8.
66. Takahashi M, Rhee AJ, **Filsoufi F**, Silvey G, Reddy RC. Anesthetic and technical considerations in redo coronary artery bypass surgery using sternal-sparing approaches. *J Cardiothorac Vasc Anesth* 2013 Apr; 27(2):315-8.
67. Farkouh ME, Domanski M, Sleeper LA, ..., **Filsoufi F**, ..., Strategies for multivessel revascularization in patients with diabetes. *N Engl J Med*. 2012 Dec 20; 367(25):2375-84.
68. Takahashi M, Gohil S, Tong B, Lento P, **Filsoufi F**, Reddy R. Early and mid-term results of off-pump endarterectomy of the left anterior descending artery. *Interact Cardiovasc Thorac Surg*. 2013 Mar; 16(3):301-5.
69. Takahashi M, Itagaki S, Laskaris J, Filsoufi F, Reddy RC. Percutaneous tracheostomy can be safely performed in patient with uncorrected Coagulopathy after cardiothoracic surgery. *Innovations*. 2014 Jan-Feb; 9(1):22-6.

### **Other Peer Reviewed Publications: *Reviews and Case Reports***

1. D'attelis N, Fabiani JN, Baron JF, **Filsoufi F**. Mitral insufficiency and heart failure: the surgical point of view. *Heart Failure Review* 1996; 12(1):4-6.
2. **Filsoufi F**, Aklog L, Adams DH. Minimally invasive CABG. *Curr Opin Cardiol* 2001; 16(5):306-9.
3. **Filsoufi F**, Adams DH. Surgical approaches to coronary artery disease. *Current Treatment Options in Cardiovascular Medicine* 2002; 4(1):55-63.
4. **Filsoufi F**, Farivar RS, Anderson C, Santerre D, Adams DH. Renal vein injury complicating intravenous leiomyoma removal. *J Thorac Cardiovasc Surg* 2002 Apr; 123(4): 820-2.
5. **Filsoufi F**, Aklog L, Adams DH. Letter: Liberal use of delayed sternal closure: sternal infection does not increase. *Ann Thorac Surg* 2003; 75(2): 638-9.
6. Adams DH, **Filsoufi F**. Editorial: Another chapter in an enlarging book: repair degenerative mitral valves. *J Thorac Cardiovasc Surg* 2003 Jun; 125:1197-9.
7. Anderson CA, **Filsoufi F**, Kadner A, Adams DH. Repair of a left main coronary artery aneurysm using the circumflex femoral artery as a Y-interposition graft. *Ann Thorac Surg* 2004 July; 78(1):314-6.
8. Salzberg SP, **Filsoufi F**, Aklog A. Infected aortic pseudoaneurysm at the site of a proximal mechanical anastomotic connector following off-pump coronary artery bypass grafting. *The Heart Surg Forum* 2004, 7 (4):236-238.
9. **Filsoufi F**, Adams DH. Invited commentary: the mitral pulmonary autograft: Assessment at midterm. *Ann Thorac Surg* 2004 Jul; 78(1):65-6.
10. **Filsoufi F**, Salzberg SP, Adams DH. Surgical treatment of ischemic mitral regurgitation. *Mount Sinai Journal of Medicine*. 2005 March; 72(2):105-115.
11. Salzberg SP, Adams DH, **Filsoufi F**. Coronary artery surgery: conventional coronary artery bypass grafting versus off-pump coronary artery bypass grafting. *Curr Opin Cardiol* 2005 Nov; 20(6):509-16.
12. Gehi A, Adams DH, **Filsoufi F**. The modern surgical management of atrial fibrillation (review). *Mt Sinai J Med* 2006 Sep; 73(5):751-8.
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## **www.ValvesofHeart.org (2011-2015)**

The **ValvesofHeart.org** is an educational website designed to provide readers with a comprehensive view of valvular heart disease with both historical and contemporary approaches. The first edition primarily focuses on the mitral valve and is entitled **TheMitralValve.org** (*LaValveMitrale.org*).

This unique educational tool of the 21st century contains two major components: Historic Review, and Current Status.

The **Historic Review** is organized into the following four sections:

The first section describes in a **Chronologic Approach** the development of knowledge of the structure and function of the heart, circulatory system and subsequently the diseases of the heart with a particular emphasis on the mitral valve. In this section, we analyze the work of major contributors from the European Renaissance until the end of the 19th century. Briefly, the 16th century can be viewed as the century of descriptive anatomy. The development of the science of experimental physiology with the discovery of blood circulation took place in the 17th century. During that era, the science of histology was established and microscopic observation played a critical role in our understanding of the physiology of the circulation. The first pathological reports appeared toward the turn of this century with the description of ossification of cardiac valves. The 18th century witnessed the birth of anatomo-pathology and a great emphasis was placed on the correlation of clinical symptoms with autopsy findings. Finally, during the first half of the 19th century, great progress was made in physical diagnosis with the broader application of percussion and the invention of stethoscope.

The second section describes the development of **Diagnostic Tools** such as sphygmography, X-ray, electrocardiogram, cardiac catheterization and more recently echocardiography. For each technology, we have provided the developmental background and then analyzed their applications in the diagnosis of the diseases of mitral valve. This section covers primarily an era extending from the mid-19th century to the seventh decade of the 20th century.

The third section entitled, **Disease Specific Approach**, focuses on the development of knowledge pertaining to the specific etiologies of valvular heart disease. We have described in a chronologic manner the progress which was made in our understanding of the most common causes of mitral valve disease namely rheumatic fever, infective endocarditis, degenerative disease and ischemic cardiomyopathy.

The fourth section is entirely devoted to the birth of **Mitral Valve Surgery** in the 20th century.

It is important to stress that the selection of the authors and their work(s) has been based on major medical bibliography references. We have read and analyzed their work(s) using the primary sources in almost every instance. They were extracted from a large personal collection on the history of cardiovascular medicine. In addition to this source of information, some of the recent material and images are reproduced from other origins. Every attempt has been made to ensure that such material is only used after the permission of the publisher.

Finally for each author, we have presented the entire title of the first edition of their work(s), a portrait (if available), the frontispiece and the title page. Along with the description of their work(s), appropriate illustrations, of museum quality, and book excerpts from the original text are displayed. We have attempted to provide a translation in English or French for authors whose text was published in Latin.

The **Current Status** is organized into the following five sections:

The first section is entitled **Fundamentals** and describes our understanding of mitral valve disease based on pathophysiological triad and Carpentier's approach of valve analysis using functional classification.

The second section, **Disease Specific Approach**, analyzes the state-of-the-art knowledge of predominant etiologies of mitral valve disease. For each etiology, we have described the clinical presentation, pathology, diagnosis with a particular emphasis on echocardiography, and modern treatment with a specific focus on surgical indications and management.

The third and fourth sections, **Case Study** and **Video Surgery**, are self-explanatory. We adopted a disease specific approach for the case study section and a functional approach for the video surgery section. Techniques of valve reconstruction in each functional group based on their pathological features and the "one lesion one technique principle" are described in detail. Extensive imaging studies and operative views are displayed and discussed.

The fifth section, **Prosthetic Heart Valves**, describes in detail mechanical and bioprosthetic valves. We have provided long-term outcomes of valve replacement in the aortic and mitral positions. Valve-related complications and long-term survival are reported for the most commonly used prosthetic valves. We have extensively analyzed clinical studies published during the last decade with a minimum follow-up of five years.

## **Historic Review**

### **Chronologic Approach**

16<sup>th</sup> Century

17<sup>th</sup> Century

18<sup>th</sup> Century

19<sup>th</sup> Century

### **Diagnostic Tools**

Sphygmography

X-Ray

Electrocardiogram – EKG

Cardiac Catheterization

Echocardiography

### **Disease Specific Approach**

Rheumatic Heart Disease

Infective Endocarditis

Degenerative Disease

Ischemic Cardiomyopathy

### **Mitral Valve Surgery**

Pre Cardiopulmonary Bypass

Post Cardiopulmonary Bypass

Bibliography

## **Current Status**

### **Fundamentals**

#### Anatomy

- *Mitral Valve*
- *Leaflets*
- *Mitral Annulus*
- *Subvalvular Apparatus*
- *Mitral Valve Function*

#### Pathophysiological Triad

- *Etiology-Lesion-Dysfunction*

#### Valve Analysis

- *Functional Classification*
- *Transesophageal Echocardiogram*
- *Surgical Valve Analysis*

### **Disease Specific Approach**

#### Rheumatic Valve Disease

- *Clinical Presentation & Pathophysiology*
- *Echocardiography*
- *Surgical Indications*
- *Surgical Management and Results*

#### Infective Endocarditis

- *Clinical Presentation – Microbiology - Pathology*
- *Echocardiography*
- *Surgical Indications*
- *Surgical Management & Results*

#### Degenerative Disease

- *Clinical Presentation & Pathology*
- *Echocardiography*
- *Surgical Indications*
- *Surgical Management & Results*

#### Ischemic Valvular Disease

- *Clinical Presentation & Pathophysiology*
- *Echocardiography*
- *Surgical Indications*
- *Surgical Management & Results*

### **Case Study**

#### Rheumatic Valve Disease

- *Case 1*
- *Case 2*

#### Infective Endocarditis

- *Case 1*

#### Degenerative Disease

- *Case 1*

#### Ischemic Valvular Disease

- *Case 1*
- *Case 2*
- *Case 3*
- *Case 4*

### **Reconstructive Valve Video Surgery**

#### Type I Dysfunction

- *Case 1*

#### Type II Dysfunction

- *Case 1*
- *Case 2*
- *Case 3*
- *Case 4*
- *Case 5*
- *Case 6*
- *Case 7*
- *Case 8*

#### Type IIIa Dysfunction

- *Case 1*

#### Type IIIb Dysfunction

- *Case 1*

## **Prosthetic Heart Valves**

### Mechanical Valves

- *Caged-Ball Valve*
- *Tilting Disc Valves*
- *Bileaflet Valves*

### Bioprosthetic Valves

- *Porcine Valves*
- *Pericardial Valves*

### Outcomes of Prosthetic Valves

- *Mitral Valve Replacement*
- *Aortic Valve Replacement*

## **Literature Review**

2011

2012

2013

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31. Filsoufi F. Extensive lesions of bacterial endocarditis. Presented at the Heart Valve Club, Paris, France, December 8-10, 2008.
32. Filsoufi F. Carcinoid heart disease. Presented at the Heart Valve Club, Paris, France, December 8-10, 2008.
33. Filsoufi F, Carpentier A. Heart Valve Surgery Forum. Presented at the 89<sup>th</sup> Annual Meeting of the American Association for Thoracic Surgery, sponsored by Edwards Lifesciences, Boston, MA, May 9, 2009.
34. Filsoufi F. Surgical Management of Secondary Tricuspid Valve Regurgitation: Anulus, commissure, or Leaflet Procedure? Discussant at the 89<sup>th</sup> Annual Meeting of the American Association for Thoracic Surgery, Boston, MA, May 12, 2009.
35. Filsoufi F. Complex mitral valve regurgitation with multiples lesions. Strategy and techniques. Presented at the Heart Valve Club, Paris, France, December 7-9, 2009.
36. Filsoufi F, Carpentier A. Heart Valve Surgery Forum. Presented at the 90<sup>th</sup> Annual Meeting of the American Association for Thoracic Surgery, sponsored by Edwards Lifesciences, Toronto, Canada, May 1, 2010.
37. Filsoufi F. High risk mitral valve: Surgery all the way. Presented at Live Symposium of Complex Coronary and Vascular Cases. The Mount Sinai Medical Center, New York, New York, June 17<sup>th</sup> 2010.
38. Filsoufi F. Complex reconstructive mitral valve surgery in degenerative valve disease. Presented at the Heart Valve Club, Paris, France, December 6-8, 2010.
39. Filsoufi F. Ascending aorta and aortic valve surgery. Chairman and Moderator. Heart Valve Club, Paris, France, December 12-14, 2011.
40. Filsoufi F. Historical reminiscences. Honoured Guest Lecture at the Heart Valve Club, Paris, France, December 12-14, 2011.

41. Filsoufi F, Carpentier A. Exhibit: [www.ValvesofHeart.org](http://www.ValvesofHeart.org) . Presentation at the 23<sup>rd</sup> European days of the French Society of Cardiology, Paris, France, January 16-19 2013.
42. Filsoufi F, Carpentier A. [www.ValvesofHeart.org](http://www.ValvesofHeart.org): A 500-year journey. Presentation at the 23<sup>rd</sup> European days of the French Society of Cardiology, Paris, France, January 16-19 2013.
43. Filsoufi F, Carpentier A. Exhibit:[www.ValvesofHeart.org](http://www.ValvesofHeart.org). Presentation at the 93<sup>rd</sup> Annual Meeting of the American Association for Thoracic Surgery, Minneapolis, MN, May 4-8 2013.
44. Filsoufi F. Mitral valve repair in rheumatic disease (Principles and live-in-box). Presentation at the 4<sup>th</sup> Annual meeting of the Iranian Cardiovascular Joint Congress, Tehran, Iran, March 1-4 2016.
45. Filsoufi F. Mitral valve repair in degenerative disease (Principles and live-in-box). Presentation at the 4<sup>th</sup> Annual meeting of the Iranian Cardiovascular Joint Congress, Tehran, Iran, March 1-4 2016.
46. Filsoufi F. Tricuspid valve repair (Indications, Principles and live-in-box). Presentation at the 4<sup>th</sup> Annual meeting of the Iranian Cardiovascular Joint Congress, Tehran, Iran, March 1-4 2016.
47. Filsoufi F, Gandjbakhsh I, Ruhparwar A. Meet the experts: surgical nursing. Presentation and panel discussion at the 4<sup>th</sup> Annual meeting of the Iranian Cardiovascular Joint Congress, Tehran, Iran, March 1-4 2016.
48. Filsoufi F. Cardiac Surgery Horizon. Presentation and panel discussion at the 4<sup>th</sup> Annual meeting of the Iranian Cardiovascular Joint Congress, Tehran, Iran, March 1-4 2016.

## Abstracts:

1. Adams DH, Chen RH, Byrne JG, **Filsoufi F**, Cohn LH, Aklog L. Improving outcomes in patients with moderate ischemic mitral regurgitation undergoing combined CABG and mitral annuloplasty. Presented at the International Congress of the French Society for Thoracic and Cardiovascular Surgery, Paris, France, 2000.
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5. **Filsoufi F**, deGuzman B, Adams DH. Aortic homograft root replacement and mitral reconstruction for endocarditis. [Film]. Presented at the 14<sup>th</sup> Annual Meeting of the European Association for Cardiothoracic Surgery, Frankfurt, Germany, October 11, 2000.
6. Anderson CA, **Filsoufi F**, Farivar RS, Adams DH. Optimal management of severe tricuspid regurgitation in cardiac transplant recipients. Presented at the International Society of Heart and Lung Transplantation, Vancouver, Canada, 2001.
7. Adams DH, **Filsoufi F**, Farivar RS, Anderson CA, Chen RH. Distal coronary artery anastomosis using a novel magnetic coupler. Presented at the 4<sup>th</sup> Annual Meeting of the International Society of Minimally Invasive Cardiac Surgery, Munich, Germany, 2001.
8. Adams DH, **Filsoufi F**, Farivar RS, Chen RH, Aklog L. Current results with CABG and annuloplasty for moderate (3+) ischemic MR. First Biennial Meeting of the Society for Heart Valve Disease, London, England, 2001.
9. **Filsoufi F**, Anderson C, Farivar RS, Cohn LH, Aklog L, Adams DH. Tricuspid valve replacement in high-risk patients. First Biennial Meeting of the Society for Heart Valve Disease, London, England, June 15-18, 2001.
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11. **Filsoufi F**, Karavas AN, Adams DH, Aklog L, Cohn LH, Byrne JG. Aortic valve replacement after previous CABG with patent LIMA. 4<sup>th</sup> International Congress on Coronary Artery Disease, Prague, Czech Republic, 2001.
12. Adams DH, **Filsoufi F**, Farivar RS, Anderson CA, Chen RH. Distal coronary bypass using an automated anastomotic magnetic device. 4<sup>th</sup> International Congress on Coronary Artery Disease, Prague, Czech Republic, 2001.
13. Aklog L, **Filsoufi F**, Farivar RS, Anderson CA, Byrne JG, Cohn LH, Adams DH. Percutaneous femoral venous cannulation with vacuum assisted is a versatile and safe technique. 4<sup>th</sup> International Congress on Coronary Artery Disease, Prague, Czech Republic, 2001.
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15. Aklog L, Soltesz EG, **Filsoufi F**, Sepic J, Nascimben L, Adams DH. The impact of residual mitral regurgitation on survival after CABG and annuloplasty for ischemic mitral regurgitation. American Association of Thoracic Surgery, Washington, D.C., 2002.
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18. Salzberg SP, **Filsoufi F**, Aklog L, Spielvogel D, Goldman ME, Adams DH. Tricuspid valve repair with the Edwards MC<sup>3</sup> annuloplasty system. New York Society of Thoracic Surgeons, New York, NY, November 5, 2003.
19. Salzberg SP, **Filsoufi F**, Gass AL, Aklog L, Adams DH. Preoperative optimization with nesiritide (BNP) in high-risk mitral valve surgery. Presented at the French Society of Cardiothoracic Surgery, Toulouse, France, June 16-19, 2004.
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22. Salzberg SP, Gehi A, von Harbou K, Aklog L, Adams DH, **Filsoufi F**. Modified maze procedure is an excellent treatment of atrial fibrillation in patients undergoing mitral valve surgery. Presented at the New York Society of Thoracic Surgeons, New York, November 2004.
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26. Gehi AK, Salzberg SP, Adams DH, **Filsoufi F**. Modified maze procedure is an excellent treatment of atrial fibrillation in patients undergoing mitral valve Surgery. Presented at the Annual Scientific Meeting of the American College of Cardiology, Orlando, FL, March 6-9, 2005.
27. Gehi AK, **Filsoufi F**, Salzberg SP, Mehta D, Adams DH. Radiofrequency and cryotherapy are equally efficacious for surgical treatment of atrial fibrillation in patients undergoing mitral valve surgery. Presented at the 26<sup>th</sup> Annual Meeting of Heart Rhythm, New Orleans, LA, May 4-7, 2005.
28. Gehi AK, Adams DH, **Filsoufi F**, Mehta D. Modified left atrial maze procedure in patients undergoing mitral valve surgery may be associated with post-operative left atrial thrombus formation. Presented at the 26<sup>th</sup> Annual Meeting of Heart Rhythm, New Orleans, LA, May 4-7, 2005.
29. Salzberg SP, **Filsoufi F**, Carpentier A, Adams DH. Mitral valve repair for ischemic mitral regurgitation with the Carpentier-McCarthy-Adams ETlogix IMR ring: Early clinical results. Presented at the 92nd Annual Meeting of the Swiss Society of Surgery and the 3rd Annual Joint Meeting with the Swiss Society of Thoracic and Cardiovascular Surgery, Zurich, Switzerland, June 8-10, 2005.
30. Salzberg SP, **Filsoufi F**, Carpentier A, Adams DH. B-type natriuretic peptide (BNP) is a good predictor for outcomes after mitral valve (MV) surgery. Presented at the 92nd Annual Meeting of the Swiss Society of Surgery and the 3rd Annual Joint Meeting with the Swiss Society of Thoracic and Cardiovascular Surgery, Zurich, Switzerland, June 8-10, 2005.
31. Salzberg SP, **Filsoufi F**, Gehi A, Adams DH. Left atrial maze procedure is an excellent treatment for patients undergoing mitral valve surgery. Presented at the Third Biennial Meeting of Society for Heart Valve Disease, June 17-20, 2005, Vancouver, Canada.

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33. Salzberg SP, **Filsoufi F**, Carpentier A, Adams DH. Perioperative use of BNP in high-risk mitral valve surgery. Presented at the XVth Rocky Mountain Valve Symposium, July 15th, 2005, Missoula, Montana.
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36. **Filsoufi F**, Salzberg SP, Karloff E, Carpentier A, Adams DH. B-type natriuretic peptide (BNP) is a good predictor for outcomes after mitral valve surgery. Presented at the Third Biennial Meeting of the Society for Heart Valve Disease, Vancouver, Canada, June 17-20, 2005.
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41. Salzberg SP, Anyanwu A, **Filsoufi F**, Rahmanian PB, Castillo J, Fallon J, Adams DH. Left-atrial appendage occlusion with a new clip device: Preliminary results in primates. Presented at the 9<sup>th</sup> Annual Scientific Meeting of the International Society of Minimally Invasive Cardiac Surgery. San Francisco, California, June 7-10, 2006.

42. Castillo JG, **Filsoufi F**, Rahmanian PB, Adams DH. Early and late results of multivalvular surgery for carcinoid heart disease. Presented at the 2007 Heart Valve Summit: Comprehensive Review of Recent Advances in the Evaluation and Treatment of Valvular Heart Disease. Boston, MA, June 6, 2007.
43. Anyanwu A, **Filsoufi F**, Parwis B. Rahmanian; Javier G. Castillo; David H. Adams. Influence of concomitant mitral valve dysfunction on survival after aortic valve replacement. Presented at the Fourth Biennial Meeting of The Society for Heart Valve Disease. New York, NY, June 15-18, 2007.
44. Rahmanian PB, **Filsoufi F**, Castillo JG, Anyanwu AC, Adams DH. Outcome of valve reconstruction for Type IIIB mitral regurgitation. Presented at the Fourth Biennial Meeting of The Society for Heart Valve Disease. New York, NY, June 15-18, 2007.
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46. Chikwe J, Castillo JG, Rahmanian PB, **Filsoufi F**, Adams DH. Respiratory failure and not tracheostomy is a risk factor for deep sternal wound infection. Presented at the SCTS Annual Meeting. Edinburgh United Kingdom, March 9-12, 2008.
47. Castillo JG, **Filsoufi F**, Rahmanian PB, Adams DH. Predicting survival following major complication(s) in cardiac surgical patients. Presented at the 57th European Society of Cardiovascular Surgery Annual Meeting. Barcelona, Spain. April 24-27, 2008.
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49. Love BA, Sharma S, **Filsoufi F**. Device occlusion of post-myocardial infarction ventricular septal defects. Presented at the SCAI Committee Meeting at ACC. March 13 2010.
50. Ramachandra Reddy, Amit Pawale, Julie Swain, **Farzan Filsoufi**, David H. Adams. Off-pump and on-pump CABG by experienced surgeons; excellent contemporary outcomes regardless of use of cardiopulmonary bypass. Presented at the 16 ISMICS Annual Scientific Meeting. Montreal Quebec, Canada. June 15-18, 2016.