

## AGH VASCULAR SURGERY TEACHING STAFF

Name	Institution at which faculty member trained	Full Time/Part Time	Year of ABS Certification Gen Surg (Year of Recert)	Year of Vascular Surgery Certification (Year of Recert)	Year of Other Board Certification [Specify] (Year of Recert)	National/ Regional Organizations (See abbreviations from list on following page)
Satish Muluk	Massachusetts General Hospital	Full	1993 (2001)	1995 (2003)	1993 [Surg Crit Care]	ACS,AAS,EVS,ISCVS,PVSS,SCVS,SVS,SUS,AAVS
Daniel Benckart	Vanderbilt University	Full	1983 (1992, 2002)	1991 (2001)		ACS,EVS,STS,ISCVS,SCVS,AAVS
Dean Healy	Vanderbilt University	Full	1988 (1996)	1991 (1999)	1995 [RVT]	ACS,SVS,PVSS,EVSS,AAS,AAVS
Joseph Young	University of Pittsburgh	Full	1979 (1988, 1997)			ACS,ASE
Bart Chess	Ohio State University	Full	*	*	*	*

ACS	American College of Surgeons
AATS	American Association for Thoracic Surgery
AAVAS	American Association of Veterans Administration Surgeons
ASTS	American Society of Transplant Surgeons
ASA	American Surgical Association
AAS	Association for Academic Surgery
ASE	Association for Surgical Education
APDS	Association of Program Directors in Surgery
APDVS	Association of Program Directors in Vascular Surgery
EVS	Eastern Vascular Society
ISCVS	International Society for Cardiovascular Surgery
MWVSS	Midwestern Vascular Surgery Society
NESVS	New England Society for Vascular Surgery
PVSS	Peripheral Vascular Surgery Society
SAVS	Southern Association for Vascular Surgery
SCVS	Society for Clinical Vascular Surgery
SVS	Society for Vascular Surgery
STS	Society of Thoracic Surgeons
SUS	Society of University Surgeons
WVS	Western Vascular Society

## **Brief CV of Satish Muluk MD (program director)**

Name: Satish Muluk MD

Principal Institution: Allegheny General Hospital

### Current professional and academic appointments (Include starting date).

Director, Division of Vascular Surgery, AGH (May 2003)

Associate Professor of Surgery, Drexel University School of Medicine (September 2003)

Director, Noninvasive Vascular Laboratory, AGH (May 2003)

Co-Medical Director, AGH Center for Advanced Wound Healing and Lymphedema (October 2004)

### Undergraduate medical education (including dates and degrees):

Boston University School of Medicine (9/1981-5/1985, MD)

### Postgraduate medical education (including dates of internships, residencies, fellowships, etc.):

Massachusetts General Hospital (General Surgery R1-R3, July 1985-June 1988)

National Institutes of Health (Medical Staff Research Fellowship, July 1988-June 1990)

Massachusetts General Hospital (General Surgery R4-R5-Superchief, July 1990-June 1993)

Massachusetts General Hospital (Vascular Surgery Fellow, July 1993-June 1994)

### Teaching awards (including dates and purpose):

### List research projects performed during the past 2 years by title, with funding source if applicable

Projects	Funding Source
Shock and ischemia: Regulation of Tissue Factor by Nitric Oxide, PI	NIH K08 grant (1 K08 HL04312-01)
VALOR trial (thoracic endograft trial), Collaborator	Medtronic, Inc.
CREST trial (Carotid stenting vs carotid endarterectomy), Collaborator	NIH
Small AAA trial (Open vs endovascular repair of AAA), Collaborator	Medtronic, Inc.
Multiple areas of clinical research leading to publication (AAA surgical trends in the US; Neck dilation after EVAR; Study of new MRA contrast agent; Contralateral disease progression after CEA)	
Multiple current clinical research projects in progress but not yet published (Contrast-induced renal failure among EVAR patients; Determination of new duplex criteria among carotid stent patients)	

## Selected Bibliography for Satish Muluk MD

### A. Peer-reviewed publications

1. Dillavou ED, **Muluk SC**, Makaroun MS. Is Neck Dilatation after Endovascular Aneurysm Repair Graft Dependent? Results of 4 US Phase II Trials. *Vascular and Endovascular Surgery* 39(1):47-54, 2005.
2. Rapp JH, Wolff SD, Quinn SF, Soto JA, Meranze SG, Rholl KS, **Muluk SC** et al. A Multi-center, Comparative, Phase 3 Study to Determine the Safety and Efficacy of MS-325-Enhanced MRA for Evaluation of Aortoiliac Occlusive Disease in Patients with Known or Suspected Peripheral Vascular Disease. *Radiology* (*in press*, accepted June 2004).
3. Severyn DA, **Muluk SC**, Vorp DA. The influence of hemodynamics and wall biomechanics on the thrombogenicity of vein segments perfused in-vitro. *Journal of Surgical Research* (*in press*, accepted April 2004)
4. Raman KG, Layne S, Makaroun MS, Kelley ME, Rhee RY, Tzeng E, Muluk VS, **Muluk SC**: "Disease Progression in the Contralateral Carotid is Common Following Endarterectomy", *Journal of Vascular Surgery* 39(1):52-7, January 2004.
5. Dillavou ED, Buck DG, **Muluk SC**, Makaroun MS: "Two-Dimensional vs Three-Dimensional CT Scan for Aortic Diameter Measurement" *Journal of Endovascular Therapy: Official Journal of the International Society of Endovascular Specialists* 10(3):531-8, June 2003.
6. Raman KG, Missig-Carroll N, Richardson T, **Muluk SC**, Makaroun, MS: "Color-flow duplex ultrasound scan versus computed tomographic scan in the surveillance of endovascular aneurysm repair", *Journal of Vascular Surgery* 38(4):645-651, October 2003.
7. Dillavou ED, **Muluk SC**, Rhee RY, Tzeng E, Woody JW, Gupta N, Makaroun MS: "Does hostile neck anatomy preclude successful endovascular aortic aneurysm repair?", *Journal of Vascular Surgery* 38(4):657-663, October 2003.
8. Bertges DJ, Muluk VS, Whittle J, Kelley M, MacPherson DS, **Muluk SC**: "Relevance of Carotid Stenosis Progression as a Predictor of Ischemic Neurological Outcomes", *Archives of Internal Medicine* 163:2285-2289, October 2003.
9. Kibbe MR, Johnnides C, Billiar TR, Tzeng E, **Muluk SC**: "Regulation Of Tissue Factor Expression By Nitric Oxide", *Journal of Vascular Surgery* 37(3):650-659, March 2003.
10. Rhee RY, **Muluk SC**, Tzeng E, Missig-Carroll N, Makaroun MS: "Can the internal iliac artery be safely covered during endovascular repair of abdominal aortic and iliac artery aneurysms?" *Annals of Vascular Surgery* 16(1):29-36, 2002 Jan.
11. Aquino R, Rhee RY, **Muluk SC**, Tzeng EY, Carrol NM, Makaroun MS: "Exclusion of accessory renal arteries during endovascular repair of abdominal aortic aneurysms" , *Journal of Vascular Surgery*. 34(5):878-84, 2001 Nov
12. Aquino RA, Johnnides C, Makaroun MS, Whittle JC, Muluk VS, Kelley ME, **Muluk SC**. "The Natural History of Claudication: Long Term Serial Follow-up Study of 1244 Claudicants", *Journal of Vascular Surgery* 34(6): 962-970 (November 2001).
13. **Muluk SC**, Muluk VS, Kelley ME, Whittle JC, Tierney JA, Webster MW, Makaroun MS: "Outcome events in claudicants: A 15-year study in 2777 patients", *Journal of Vascular Surgery* 33(2):251-258 (February 2001).

14. Kute SM, **Muluk SC**, Vorp DA: "Tissue factor and immediate early gene expression in porcine vessels exposed to disturbed flow in vitro", Proceedings of 2001 Bioengineering conference ASME **50**:1 (June 2001).
15. Bertges DJ, Rhee RY, **Muluk SC**, Trachtenberg JD, Steed DL, Webster MW, and Makaroun MS: "Is routine use of the intensive care unit after elective infrarenal abdominal aortic aneurysm repair necessary?", Journal of Vascular Surgery **32**(4): 634-642 (November 2000).
16. Garvey L, MD, Muluk VS, Makaroun MS, **Muluk SC**: "Etiologic factors in progression of carotid stenosis: A 10-year study in 905 patients", Journal of Vascular Surgery **31**(1):31-38 (January 2000).  
\*Selected to be abstracted in Yearbook of Vascular Surgery, Mosby-Year Book, Inc., 2001.
17. Taylor BS, Rhee RY, **Muluk SC**, Trachtenberg JD, Walters D, Steed DL, Makaroun MS: "Thrombin injection versus compression of femoral artery pseudoaneurysms." Journal of Vascular Surgery **30**(6):1052-59 (December 1999).
18. Zacharski LR, Chow B, Lavori PW, Howes PS, Bell MR, DiTommaso MA, Carnegie NM, Bech F, Amidi M, **Muluk SC**: "The iron (Fe) and atherosclerosis study (FeAST): I. A pilot study of reduction of body iron stores in atherosclerotic peripheral vascular disease", American Heart Journal **139**:337-45 (February 2000).

## **B. Other publications**

1. **Muluk SC**: "Asymptomatic carotid stenosis: When should we operate and why." In: Goldstone J ed., Perspectives in Vascular Surgery **12**(1):15-26 (2000).

## **C. National or regional presentations**

1. Dillavou E, **Muluk SC**, Makaroun MS: "A Decade of Change in AAA repair in the US: Have we Improved Outcomes Equally Among Men and Women?", accepted for presentation at the Eastern Vascular Society Annual Meeting (May 2005).
2. Dillavou E, **Muluk SC**, Makaroun MS: "Better Results for AAA Repair; Nationwide changes in the Endovascular Era", accepted for presentation at the American Association of Vascular Surgery (June 2005).
3. Raman K, Muluk VS, Makaroun MS, Rhee RY, Tzeng E, **Muluk SC**: "Contralateral disease progression is common after carotid endarterectomy", presented at the annual joint meeting of the Society for Vascular Surgery – American Association of Vascular Surgery (SVS-AAVS) (June 2003).
4. Dillavou ED, **Muluk SC**, Rhee RY, Tzeng EY, Woody JD, Gupta N, Makaroun MS: "Does Hostile Neck Anatomy Preclude Successful Endovascular Aortic Aneurysm Repair (EVAR)?" , presented at the Society for Clinical Vascular Surgery (SCVS) (March 2003).
5. Dillavou ED, Buck DG, **Muluk SC**, Makaroun MS: "Two-Dimensional vs Three-Dimensional CT Scan for Aortic Diameter Measurement", presented at the International Society for Endovascular Specialists (ISES) (February 2003).

6. Kibbe MR, Johnnides C, Kovesdi I, Lizonova A, Billiar TR, Tzeng E, **Muluk SC**: “Regulation Of Tissue Factor Expression By Nitric Oxide”, presented at the Jacobson Research Initiatives in Vascular Disease Conference (April 2002).
7. Johnnides C, Gleixner S, Billiar T, **Muluk SC**: “Mechanisms of tissue factor induction in vascular smooth muscle cells by nitric oxide and pro-inflammatory agents: role of p13k- and NF B-dependent pathways”, presented at the Society of University Surgeons meeting (February 2002).
8. Aquino RV, Makaroun MS, Whittle JC, Muluk VS, Kelley ME, Rhee RY, Ibrahim R, **Muluk SC**: “Natural History of Claudication: A 12-year serial follow-up study of 1244 claudicants”, presented at the Eastern Vascular Society Annual Meeting (May 2001).
9. Kute SM, **Muluk SC**, Vorp DA: “Tissue Factor and Immediate Early Gene Expression in Porcine Arteries Exposed to Disturbed Flow In Vitro”, presented at the American Society of Mechanical Engineers Summer Bioengineering Conference (Summer 2001).
10. Aquino RV, Rhee RY, **Muluk SC**, Tzeng EY, Makaroun MS: “Exclusion of accessory renal arteries during endovascular repair of abdominal aneurysms”, presented at the Society for Clinical Vascular Surgery (April 2001).
11. Aquino RV, Makaroun MS, Crammond DJ, Krieger DN, Tzeng EY, **Muluk SC**, Steed DL, Rhee RY: “Are somatosensory evoked potentials an acceptable alternative to electroneurography in monitoring carotid endarterectomy?” presented at the Society for Clinical Vascular Surgery (April 2001).
12. Aquino R, Makaroun MS, Whittle JC, Muluk VS, Kelley M, Freda T, Rhee RY, **Muluk SC**: “Long-term study of outcomes in 2777 claudicants”, presented at the Peripheral Vascular Surgery Society (January 2001).
13. **Muluk SC**, Muluk VS, Kelley ME, Whittle JC, Tierney JA, Webster MW, Makaroun MS: “Outcome events in claudicants: A 15-year study in 2777 patients”, presented at the Society for Vascular Surgery (June 2000).
14. Bertges DJ, Rhee RY, **Muluk SC**, Trachtenberg JD, Steed DL, Webster MW, and Makaroun MS: “Is routine use of the intensive care unit after elective infrarenal abdominal aortic aneurysm repair necessary?”, presented at the Society for Clinical Vascular Surgery (March 2000).

## **Brief CV of Daniel Benckart MD**

Name: Daniel Benckart

Principal Institution: Allegheny General Hospital

### Current professional and academic appointments (Include starting date).

Senior Attending Staff, AGH (1985)

Member, AGH Board of Directors (2003)

Member, AGH ECMS (1998)

Associate Professor of Surgery, Drexel University School of Medicine (1998)

### Undergraduate medical education (including dates and degrees):

Georgetown University School of Medicine (1977 MD)

### Postgraduate medical education (including dates of internships, residencies, fellowships, etc.):

Vanderbilt University (R1-R5, 1977-1982)

New York University (Cardiothoracic Surgery Fellow, 1982-1984)

### Teaching awards (including dates and purpose):

The "Arthur P. Murphy, MD Award" for general surgery resident training 1991, 1994, 1996, 2006

The Golden Apple Award for excellence in medical student training 1997

The George Liebler, M.D. & John Burkholder, M.D. award for Cardiothoracic Surgical Education 2001

### List research projects performed during the past 2 years by title, with funding source if applicable

Projects	Funding Source
VALOR trial (thoracic endograft trial), Site PI	Medtronic, Inc.
CREST trial (Carotid stenting vs carotid endarterectomy), Site PI	NIH
Small AAA trial (Open vs endovascular repair of AAA), Site PI	Medtronic, Inc.

## Selected Bibliography for Daniel Benckart MD

### A. Peer-reviewed publications

1. Szwerc MF, **Benckart DH**, Wiechmann RJ, Savage EB, Szydowski GW, Magovern GJ Jr, Magovern JA – Partial Versus Full Sternotomy for Aortic Valve Replacement, *The Annals of Thoracic Surgery*, 2209-14, December 1999
2. Rogers WJ, Prichard JW, Hu YL, Olson PR, **Benckart DH**, Kramer CM, Vido, DA Reichek N. – Characterization of Signal Properties in Atherosclerotic Plaque Components By Intravascular MRI. *Journal of the American Heart Association, Artheroscler Thromb Vasc Biol.* July 2000;20(7):1824-30
3. Payne ME, Magovern, Jr. GJ, **Benckart DH**, Vasilakis A, Szydowski GW, Cardone JC, Marrone GC, Burkholder JA, Magovern JA – Left Pleural Effusion After Coronary Artery Bypass Decreases With a Supplemental Pleural Drain, *The Annals of Thoracic Surgery* 2002;73:149-52
4. Payne ME, Marrone GC, **Benckart DH**, Magovern G Jr., Szydowski G, Magovern J, Reoperative Valve Surgery: Comparison Results Using Right Thoracotomy Versus Repeat Sternotomy. *Pennsylvania Association of Thoracic Surgery* 2002
5. Piper G, Patel NA, Chandela S, **Benckart DH**, Young JC, Colella JJ, Healy DA. Short-Term Predictors and Long-Term Outcome after Ruptured Abdominal Aortic Aneurysm., *American Surgeon* 69(8):703-709, 2003

### B. Other Publications

None.

### C. National or regional presentations

1. Partial Versus Full Sternotomy For Aortic Valve Replacement: Szwerc, MF, **Benckart DH**, Wiechmann, RJ, Singh, D, Szydowski, GW, Margovern Jr., GJ, Magovern, JA, The Pennsylvania Association For Thoracic Surgery
2. Update on Use of Left Atrial to Femoral Artery Bypass for Repair of Traumatic Aortic Transection: Szwerc, MF, **Benckart DH**, Lin JC, Johnnides CG, Magovern JA, Magovern Jr. GJ, The Pennsylvania Association For Thoracic Surgery
3. Reoperative Mitral Valve Surgery: Comparison of Results Using Right Thoracotomy Versus Repeat Sternotomy: Payne M, Marrone GC, **Benckart DH**, Magovern Jr. GJ, Magovern JA: The Pennsylvania Association for Thoracic Surgery.
4. Wound Healing Complications of Conduit Harvest Sites for CABG: Radial Artery Versus Saphenous Vein: Singh D, **Benckart DH**, Magovern Jr. GJ, Magovern JA: The Pennsylvania Association for Thoracic Surgery.
5. Reduction in Left Pleural Effusion Following Coronary Artery Bypass with a Postoperative Flexible Drainage System: Payne M, Magovern Jr., GJ, **Benckart DH**, Magovern JA: The Pennsylvania Association for Thoracic Surgery.
6. Analysis of One-Year Outcome for High Risk Patients Undergoing Coronary Bypass Surgery: Magovern J, Hunter T, Simpson K, Szydowski G, Marrone G, **Benckart D**, Magovern Jr., G: Southern Thoracic Surgical Association – 2000
7. Reduction in Left Pleural Effusion Following Coronary Artery Bypass with a Postoperative Elexible Drainage System: Magovern J, Payne M, **Benckart D**, Landreneau R, Yoon P, Vasilakis A, Cardone J, Magovern Jr. G. – American Heart Association.

8. Aprotinin Reduces Transfusion and Major Complications in High Risk Patients: Magovern J, **Benckart D**, Marrone G, Singh D, Magovern G – American Heart Association 2002

## **Brief CV of Dean Healy MD**

Name: Dean Healy MD

Principal Institution: Allegheny General Hospital

Current professional and academic appointments (Include starting date).

Attending Vascular Surgeon, AGH (2003)  
Associate Professor, Drexel University School of Medicine

Undergraduate medical education (including dates and degrees):

Vanderbilt University School of Medicine

Postgraduate medical education (including dates of internships, residencies, fellowships, etc.):

Vanderbilt University Affiliated Hospitals, R1-R3 (1980-1983), R4-R5 (1985-1987)  
Nashville Veterans Administration Medical Center and Vanderbilt University, Research fellowship (1983-1985)  
University of Washington Department of Vascular Surgery, Vascular surgery fellowship (1987-89)

Teaching awards (including dates and purpose):

List research projects performed during the past 2 years by title, with funding source if applicable

Projects	Funding Source
VALOR trial (thoracic endograft trial), Collaborator	Medtronic, Inc.
CREST trial (Carotid stenting vs carotid endarterectomy), Collaborator	NIH
Small AAA trial (Open vs endovascular repair of AAA), Collaborator	Medtronic, Inc.

## **Selected Bibliography for Dean Healy MD**

### **A. Peer-reviewed publications**

1. Piper G, Patel NA, Chandela S, Benckart DH, Young JC, Colella JJ, **Healy DA**. Short-term predictors and long-term outcome after ruptured abdominal aortic aneurysm. *American Surgeon* 69(8):703-709, 2003
2. Zagon IS, Essis FM Jr, Verderame MF, **Healy DA**, Atnip RG, McLaughlin PJ. Opioid growth factor inhibits intimal hyperplasia in balloon-injured rat carotid artery. *Journal of Vascular Surgery* 37(3):636-643, 2003.
3. Knight CG, **Healy DA**, Thomas DL. Femoral artery pseudoaneurysms: risk factors, prevalence, and treatment options. *Annals of Vascular Surgery* 17(5):503-508, 2003.
4. McGill RL, Marcus RJ, **Healy DA**, Brouwer DJ, Smith BC, Sandrous SE. AV fistula rates: Changing the culture of vascular access. *The Journal of Vascular Access* 2005; 6: 13-17
5. McGill RL, Marcus RJ, **Healy DA**, Kiproff PM, Nye S. Collateralization of the palmar arch by a failing radiocephalic fistula: An underappreciated complicator of cimilo fistula anatomy. *Journal of Vascular Access* (submitted)

### **B. Other Publications**

None.

### **C. National or regional presentations**

None.

## **Brief CV of Joseph Young MD**

Name: Joseph Young MD

Principal Institution: Allegheny General Hospital

Current professional and academic appointments (Include starting date).

Director, Division of General Surgery, AGH (1995)

Associate Professor, Drexel University School of Medicine (1999)

Undergraduate medical education (including dates and degrees):

St. Louis University School of Medicine (MD, 1967-1971)

Postgraduate medical education (including dates of internships, residencies, fellowships, etc.):

University of Pittsburgh, Internship, 1971-72

University of Pittsburgh, R1-R5, 1972-77

University of Pittsburgh, Chief Administrative Resident, 1977-78

Teaching awards (including dates and purpose):

The "Arthur P. Murphy, MD Award" for general surgery resident training 1986, 1989, 1990, 2004

List research projects performed during the past 2 years by title, with funding source if applicable

Projects	Funding Source

**Brief CV of Bart Chess MD**

Name: Bart Chess MD
Principal Institution: Allegheny General Hospital

Current professional and academic appointments (Include starting date).

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Undergraduate medical education (including dates and degrees):

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Postgraduate medical education (including dates of internships, residencies, fellowships, etc.):

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Teaching awards (including dates and purpose):

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List research projects performed during the past 2 years by title, with funding source if applicable

Projects	Funding Source