

## CURRICULUM VITAE

MICHEL S. MAKAROUN, M.D.

### BIOGRAPHICAL

**NAME:** Michel S. Makaroun, M.D.

**BIRTH DATE:** August 1, 1954

**BIRTH PLACE:** Lebanon

**CITIZENSHIP:** USA

**HOME ADDRESS:** 5445 Darlington Road  
Pittsburgh PA 15217

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**BUSINESS ADDRESS:** Professor of Surgery and of Clinical and Translational Science  
University of Pittsburgh School of Medicine  
UPMC Chair in Vascular Surgery  
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## EDUCATION AND TRAINING

### UNDERGRADUATE:

1971 - 1973	American University of Beirut Beirut Lebanon	B.S., 1974 with High Distinction	Biochemistry
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### MEDICAL SCHOOL:

1973 - 1978	American University of Beirut Medical School, Beirut Lebanon	M.D., 1978 with Distinction	Medicine
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### POST-GRADUATE TRAINING:

1977 - 1978	American University of Beirut Beirut Lebanon	Internship	Surgery
1978 - 1980	American University of Beirut Beirut Lebanon	Residency	Surgery
1980 - 1983	University Health Center of Pittsburgh Pittsburgh PA	Residency	Surgery
1983 - 1984	University of Pittsburgh Pittsburgh PA	Research Fellowship	Surgery
1984 - 1985	University Health Center of Pittsburgh Pittsburgh PA	Administrative Chief Resident	Surgery
1985 - 1986	University Health Center of Pittsburgh Pittsburgh PA	Fellow	Advanced Surgery

## CERTIFICATION AND LICENSURE

### SPECIALTY CERTIFICATION

American Board of Surgery	#30927	1985
	Recertified	1993
	Recertified	2004

Certificate of "Special Qualifications in General Vascular Surgery" Vascular Surgery Board /American Board of Surgery	#854	1991
	Recertified	1998
	Recertified	2009

### MEDICAL OR OTHER PROFESSIONAL LICENSURE

ECFMG	#290-693-1	July 1977
State of New York (Inactive)	#144027	October 1980
State of Pennsylvania	#MD-025612-E	August 1981

## **APPOINTMENTS AND POSITIONS**

### **ACADEMIC**

#### **University of Pittsburgh School of Medicine, Department of Surgery**

1984 - 1986            Clinical Instructor  
1986 - 1992            Assistant Professor of Surgery  
1992 - 2000            Associate Professor of Surgery  
1999 – Present        Chief, Division of Vascular Surgery  
2000 – Present        Professor of Surgery  
2012 – Present        UPMC Endowed Chair in Vascular Surgery

#### **University of Pittsburgh School of Medicine, CTSI: Clinical and Translational Science Institute**

2015 – Present        Professor of Clinical and Translational Science

### **HOSPITAL and NON-ACADEMIC**

#### **University of Pittsburgh Medical Center: Presbyterian Hospital**

1984 - Present        Active Staff  
1993 - 2011            Medical Director, Peripheral Vascular Laboratory  
1995 - Present        Director, Endovascular Surgery Program  
1998 - 2012            Program Director, Vascular Surgery Residency  
2011 - Present        Co-Director, UPMC Heart & Vascular Institute

#### **Veterans Administration Medical Center/University Drive/ Pittsburgh**

1985 - Present        Active Staff  
1985 - 1993            Chief, Vascular Surgery Section  
                              Director, Peripheral Vascular Lab  
1990 - 1993            Assistant Chief, Surgical Service

UPMC, Passavant Hospital	1995 – Present	Junior Active Staff
UPMC, St. Margaret's Hospital	1995 – Present	Assistant Staff
UPMC, Shadyside Hospital	1998 – Present	Active Staff
UPMC, South Side Hospital	2000 – 2004	Active Staff
St Clair Memorial Hospital	2001 – 2013	Active Staff
UPMC, Magee Women's Hospital	2007 – Present	Courtesy Staff
UPMC, McKeesport Hospital	2008 – Present	Active Staff
UPMC, Mercy Hospital	2010 – Present	Active Staff
Jameson Memorial Hospital	2011 – Present	Consulting Staff
UPMC East	2012 – Present	Active Staff
Washington Health System	2017 – Present	Associate Staff
Monongahela Valley Hospital	2017 – Present	Consulting Staff

### **HONORS AND SCHOLARSHIPS**

1971                    New Students Scholarship, American University of Beirut  
1972                    Arts and Sciences Scholarship, American University of Beirut  
1973                    Calouste Gulbenkian Scholarship, American University of Beirut  
1974                    BS Graduate with High Distinction, American University of Beirut  
1978                    MD Graduate with Distinction, American University of Beirut  
1978                    Alpha Omega Alpha Medical Honor Society, American University of Beirut  
1994                    Excellence in Teaching Award, Surgical Chief Residents, University of Pittsburgh  
1999-2011            Best Doctors in America (Woodward/White)  
2001-2018            America's Top Doctors (Castle Connolly Guide)  
2002-2008            Guide to America's top surgeons (SLD Industries)

**MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES**

1980 – Present	AUB Surgical Alumni Society of North America	
	Secretary	1996-1998
1982 – 1990	Mark Ravitch Surgical Association	
1986 – 1992	Allegheny County Medical Society	
1986 – 1992	Pennsylvania Medical Society	
1987 – Present	Allegheny Vascular Society	
	<b>President</b>	<b>1999-2001</b>
1987 – Present	Eastern Vascular Society	
	Executive Council	2003-2014
	Secretary	2006-2008
	President Elect	2008-2009
	<b>President</b>	<b>2009-2010</b>
1987 – 2004	Pittsburgh Surgical Society	
1987 – 2004	Association for Academic Surgery	
1988 – Present	Fellow, American College of Surgeons	
1989 – Present	Society for Clinical Vascular Surgery	
	Program Committee	2000-2002 / Chair 2003
	Executive Council	2003-2015
	Secretary	2006-2009
	Vice President	2009-2010
	President Elect	2010-2011
	<b>President</b>	<b>2011-2012</b>
1990 – 1992	American Medical Association	
1991 – 2004	Association of VA Surgeons	
1992 – 2003	American Association of Vascular Surgery, a chapter of the ISCVS	
1994 – Present	International Society of Endovascular Specialists	

**MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES, continued**

1997 – Present	Society for Vascular Surgery	
	Distinguished Fellow	1997-Present
	Committee on Endovascular issues	2000-2001
	Board of Technology assessment	2001-2006 / Chair 2004-2006
	Program Committee	2001-2002 / 2004-2006
	Clinical Practice Council	2005-2007
	Vascular Surgery Action Committee	2007
	Board of Directors	2010-Present
	Executive Council	2011-2012 / 2013-Present
	Chair, International Relations	2012- 2013
	Secretary	2013-2016
	Membership Committee	2013-2016
	Document Oversight Committee	2013-2016
	International Relations Committee	2013-Present
	Vice President	2016-2017
	President-Elect	2017-Present
	<b>President</b>	<b>2018-Present</b>
	SVS Foundation Board	2016-Present
	Education Council	2016-2017
	SVS-Patient Safety Organization Board	2016-Present
1998 – Present	American Lebanese Medical Association	
1999 – 2006	Stroke Council, American Heart Association	
1999 – Present	Association of Program Directors in Vascular Surgery (APDVS)	
	Issues Committee	2006-2009
	Executive Council	2007-2016
	President Elect	2008-2010
	<b>President</b>	<b>2010-2012</b>
2006 – Present	Association of Chiefs of Vascular Surgery (ACVS)	
	Program Director	2006
	President Elect	2007
	<b>President</b>	<b>2008</b>
2008 – Present	International Society for Vascular Surgery (ISVS)	
	Program Director	2013
2009 – Present	Honorary Member Society for Vascular Surgery of Great Britain and Ireland	
2011 – Present	American Surgical Association	
2013 – Present	World Federation of Vascular Societies	
	SVS Councilor	2012-2014
	<b>President</b>	<b>2014-2015</b>
	SVS Councilor	2015- Present

**VISITING PROFESORSHIPS / HONORARY LECTURES/ SOCIETY ADDRESSES**

Dartmouth Hitchcock Medical Center	Nov 2000	Visiting Professor
Cleveland Clinic	Nov 2001	Visiting Professor
American University of Beirut	Sep 2001	Visiting Professor
Northwestern University Hospital	Apr 2003	Visiting Professor
SUNY Upstate Medical Center, Syracuse	Aug 2005	Visiting Professor
George Washington University	Oct 2005	Visiting Professor
University of Texas San Antonio	Feb 2006	Visiting Professor
SUNY Stony Brook	Apr 2006	Visiting Professor
University of British Columbia (Vancouver)	Jun 2006	Visiting Professor
University of Vermont	Oct 2006	Visiting Professor
Oregon Health Sciences University	Jan 2007	The John Porter Lecture
Baylor College of Medicine	Mar 2007	Visiting Professor
UMDNJ_Robert Wood Johnson	May 2007	Norman Rosenberg Lecture
Swedish Society for Vascular Surgery	May 2007	Honorary Guest Lecturer
Allegheny General Hospital (Pittsburgh)	Jan 2008	Visiting Professor
Canadian Vascular Society	Sep 2008	Featured Guest Speaker
Mt. Sinai School of Medicine	Sep 2008	Visiting Professor
Michigan Vascular Society	Sep 2008	Visiting Professor
West Virginia University	May 2009	Visiting Professor
Australia and New Zealand Vascular Society (Sydney)	Oct 2009	Keynote Speaker
Society for Vascular Surgery of Great Britain and Ireland	Nov 2009	International guest speaker
University of Pennsylvania	Dec 2009	Visiting Professor
Eastern Vascular Society	Oct 2010	Presidential Address
Society for Military Vascular Surgery	Dec 2011	Hughes Lecture
Society for Clinical Vascular Society	Mar 2012	Presidential Address
University of Massachusetts Department of Surgery	May 2012	Ellinwood Lecture
University of Alabama-Birmingham	Nov 2012	Morton Lecture
University of Michigan, Dept. of Surgery	Apr 2013	Milton F. Bryant Lecture
Southern Illinois University	Apr 2013	Visiting Professor
Asian Society for Vascular Surgery (Istanbul)	Oct 2013	Keynote Address
30 <sup>th</sup> Vascular Fellows Abstract Competition	May 2014	Honorary Speaker
Ohio State University	Sept 2014	Luther Keith Visiting Professor
Houston Methodist DeBakey Heart & Vascular Centers	Feb 2015	Visiting Professor
Cleveland Clinic Heart and Vascular Institute	Nov 2015	Visiting Professor
Massachussets General Hospital Grand Rounds	Apr 2017	Linton Professor
University of Southern California (USC)	Sept 2017	Max Gaspar Visiting Professor
Penn Medicine, University of Pennsylvania Grand Rounds	Dec 2017	Visiting Professor
Beth Israel Deaconness Medical Center (Boston, MA) Gr Rds	March 2018	Visiting Professor
Duke University Surgical Grand Rounds	April 2018	Visiting Professor
Washington University (St. Louis, MO) Surgery Grand Rounds	May 2018	Visiting Professor
Medical University of South Carolina Surgery Grand Rounds	May 2018	Visiting Professor
Georgetown Grand Rounds	April 2019	Visiting Professor

## PUBLICATIONS

### REFEREED PUBLICATIONS

1. Slim MS, **Makaroun M**, Shamma AR. Primary repair of colorectal injuries in childhood. *J Pediatr Surg* 1981;16:1008-1011.
2. Brown B, Steed DL, Webster MW, **Makaroun MS**, Spero JA, Bontempo FA, Ragni MV, Lewis JH. General surgery in adult hemophiliacs. *Surgery* 1986;99:154-159.
3. Peitzman AB, **Makaroun MS**, Slasky BS, Ritter P. Prospective study of computed tomography in initial management of blunt abdominal trauma. *J Trauma* 1986;26:585-592.
4. Moosa HH, **Makaroun MS**, Peitzman AB, Steed DL, Webster MW. TcPO<sub>2</sub> values in limb ischemia: effects of blood flow and arterial oxygen tension. *J Surg Res* 1986;40:482-487.
5. Moosa HH, Falanga V, Steed DL, **Makaroun MS**, Peitzman AB, Eaglstein WH, Webster MW. Oxygen diffusion in chronic venous ulceration. *J Cardiovasc Surg* 1987;28:464-467.
6. Moosa HH, Peitzman AB, **Makaroun MS**, Webster MW, Steed DL. Transcutaneous oxygen measurements in lower extremity ischemia: effects of position, oxygen inhalation, and arterial reconstruction. *Surgery* 1988;103:193-198.
7. [Veterans Administration Cooperative Study Group 141; **Makaroun MS**]. Comparative evaluation of prosthetic, reversed, and in situ vein bypass grafts in distal popliteal and tibial-peroneal revascularization. *Arch Surg* 1988;123:434-438.
8. Showalter D, Durham S, Sheppeck R, Berceci S, Greisler H, Brockbank K, **Makaroun M**, Webster M, Steed D, Siewers R, Borovetz H. Cryopreserved venous homografts as vascular conduits in canine carotid arteries. *Surgery* 1989;106:652-659.
9. Higgins RS, Steed DL, Julian TB, **Makaroun MS**, Peitzman AB, Webster MW. The management of aortoenteric and paraprosthetic fistulae. *J Cardiovasc Surg* 1990;31:81-86.
10. **Makaroun MS**, Shuman-Jackson N, Rippey A, Schreiner D, Arvan S. Cardiac risk in vascular surgery. The oral dipyridamole-thallium stress test. *Arch Surg* 1990;125:1610-1613.
11. Durham SJ, Steed DL, Moosa HH, **Makaroun MS**, Webster MW. Probability of rupture of an abdominal aortic aneurysm after an unrelated operative procedure: a prospective study. *J Vasc Surg* 1991;13:248-252.
12. Schechter D, Murali S, Uretsky BF, Reddy PS, **Makaroun M**, Dekker A. Vascular entrapment of intra-aortic balloon after short-term balloon counterpulsation. *Cathet Cardiovasc Diagn* 1991;22:174-176.
13. [Veterans Administration Cooperative Study Group 141; **Makaroun MS**]. Donor limb vascular events following femoro-femoral bypass surgery. *Arch Surg* 1991;126:681-686.
14. Mayberg MR, Wilson SE, Yatsu F, Weiss DG, Messina L, Hershey LA, Colling C, Eskridge J, Deykin D, Winn HR, [VA Cooperative Studies Program 309 Trialist Group; **Makaroun MS**]. Carotid endarterectomy and prevention of cerebral ischemia stenosis. *JAMA* 1991;266:3289-3294.
15. Wilson SE, Mayberg MR, Yatsu F, Weiss DG, [Veterans Affairs Trialists; **Makaroun MS**]. Crescendo transient ischemic attacks: a surgical imperative. *J Vasc Surg* 1993;17:249-255.
16. Lovett JE, Shestak KC, **Makaroun MS**. Analysis of lower extremity blood flow in the patient with peripheral vascular insufficiency: a guide for plastic surgeons. *Ann Plastic Surg* 1994;32:101-106.
17. Webster MW, Downs L, Yonas H, **Makaroun MS**, Steed DL. The effect of arm exercise on regional cerebral blood flow in the subclavian steal syndrome. *Am J Surg* 1994;168:91-93.
18. Lederle FA, Wilson SE, Johnson GR, Littooy FN, Acher C, Messina LM, Reinke DB, Ballard DJ, [ADAM VA Cooperative Study Group; **Makaroun MS**]. Design of the abdominal aortic Aneurysm Detection And Management Study. *J Vasc Surg* 1994;20:296-303.
19. Webster MW, **Makaroun MS**, Steed DL, Smith HA, Johnson DW, Yonas H. Compromised cerebral blood flow reactivity is a predictor of stroke in patients with symptomatic carotid artery occlusive disease. *J Vasc Surg* 1995;21:338-345.
20. Lederle FA, Wilson SE, Johnson GR, Reinke DB, Littooy FN, Acher CW, Messina LM, Ballard DJ, Ansel HJ, [ADAM VA Cooperative Study Group; **Makaroun MS**]. Variability in measurement of abdominal aortic aneurysms. *J Vasc Surg* 1995;21:945-952.

21. Muluk SC, Steed DL, **Makaroun MS**, Pham SM, Kormos RL, Griffith BP, Webster MW. Aortic aneurysm in heart transplant recipients. *J Vasc Surg* 1995;22:689-696.
22. Saudek CD, Duckworth WC, Giobbie-Hurder A, Henderson WG, Henry RR, Kelley DE, Edelman SV, Zieve FJ, Adler RA, Anderson JW, Anderson RJ, Hamilton BP, Donner TW, Kirkman MS, Morgan NA, [Department of Veterans Affairs Implantable Insulin Pump Study Group; **Makaroun MS**]. Implantable insulin pump vs multiple-dose insulin for non-insulin-dependent diabetes mellitus: a randomized clinical trial. *JAMA* 1996;276:1322-1327.
23. Vorp DA, Raghavan ML, Muluk SC, **Makaroun MS**, Steed DL, Shapiro R, Webster MW. Wall strength and stiffness of aneurysmal and nonaneurysmal abdominal aorta. *Ann NY Acad Sci* 1996;800:274-276.
24. Bontempo FA, Hassett AC, Faruki H, Steed DL, Webster MW, **Makaroun MS**. The factor V Leiden mutation: spectrum of thrombotic events and laboratory evaluation. *J Vasc Surg* 1997;25:271-276.
25. Muluk SC, Painter L, Sile S, Rhee RY, **Makaroun MS**, Steed DL, Webster MW. Utility of clinical pathway and prospective case management to achieve cost and hospital stay reduction for aortic aneurysm surgery at a tertiary care hospital. *J Vasc Surg* 1997;25:84-93.
26. Lederle FA, Johnson GR, Wilson SE, Chute EP, Littooy FN, Bandyk D, Krupski WC, Barone GW, Acher CW, Ballard DJ, [ADAM VA Cooperative Study Group; **Makaroun MS**]. Prevalance and associations of abdominal aortic aneurysm detected through screening. *Ann Intern Med* 1997;126:441-449.
27. Amesur NB, Zajko AB, **Makaroun MS**. Treatment of a failed bifurcated abdominal aortic stent graft with thrombolysis and Wallstent placement. *J Vasc Interven Radiol* 1997;8:795-798.
28. Lederle FA, Johnson GR, Wilson SE, Gordon IL, Chute EP, Littooy FN, Krupski WC, Bandyk D, Barone GW, Graham LM, Hye RJ [ADAM VA Cooperative Study Group; **Makaroun MS**]. Relationship of age, gender, race, and body size to infrarenal aortic diameter. *J Vasc Surg* 1997;26:595-601.
29. **Makaroun M**, Zajko A, Orons P, Muluk S, Rhee R, Steed D, Webster M. The experience of an academic medical center with endovascular treatment of abdominal aortic aneurysms. *Am J Surg* 1998;176:198-202.
30. Eskandari MK, Bontempo FA, Hassett AC, Faruki H, **Makaroun M**. Arterial thromboembolic events in patients with the factor V Leiden mutation. *Am J Surg* 1998;176:122-125.
31. Eskandari M, Bowles S, Webster M, Steed D, **Makaroun M**, Muluk S, Rhee R, Chelluri L. Ruptured abdominal aortic aneurysms in the 90s: resource utilization, long-term survival, and quality of life after repair. *Vasc Surg* 1998;32:415-424.
32. Muluk S, Muluk V, Sugimoto H, Rhee R, Trachtenberg J, Steed D, Jarrett F, Webster M, **Makaroun M**. Progression of asymptomatic carotid stenosis: a natural history study in 1,004 patients. *J Vasc Surg* 1999;29:208-216.
33. Aseem WM, **Makaroun M**. Bilateral subclavian steal syndrome through different paths and from different sites. *Angiology* 1999;50:149-152.
34. **Makaroun M**, Zajko A, Sugimoto H, Eskandari M, Webster M. Fate of endoleaks after endoluminal repair of abdominal aortic aneurysms with the EVT device. *Eur J Vasc Endovasc Surg* 1999;18:185-190.
35. Eskandari M, Rhee R, Steed D, Webster M, Muluk S, Trachtenberg J, Hoffman R, **Makaroun M**. Oxygen Dependent COPD does not prohibit Aortic Aneurysm Repair. *Am J Surg* 1999;178:125-128.
36. Amesur N, Zajko A, Orons P, **Makaroun M**. Embolotherapy of persistent endoleaks following endovascular repair of abdominal aortic aneurysm with the Ancure-Endovascular Technologies endograft. *J Vasc Int Rad* 1999;10:1175-1182.
37. Taylor B, Rhee R, Muluk S, Trachtenberg J, Walters D, Steed D, **Makaroun M**. Thrombin injection versus compression of femoral artery pseudoaneurysms. *J Vasc Surg* 1999;30:1052-1059.
38. Franco T, Zajko A, Federle M, **Makaroun M**. Endovascular repair of abdominal aortic aneurysm with the Ancure endograft: CT follow-up of perigraft flow and aneurysm size at 6 months. *J Vasc Int Rad* 2000;11:429-435.
39. Kibbe M, Nie S, Seol DW, Kovesdi I, Lisonova A, **Makaroun M**, Billiar T, Tzeng E. Nitric Oxide prevents P21 degradation by the ubiquitin-proteasome pathway in vascular smooth muscle cells. *J Vasc Surg* 2000;31:364-374.



40. Garvey L, Muluk V, **Makaroun M**, Webster M, Muluk S. Etiologic factors in progression of carotid stenosis: A 10-year study in 905 patients. *J Vasc Surg* 2000;31:31-38.
41. Jones M, Hoffman LA, **Makaroun M**. Endovascular Grafting for repair of abdominal aortic aneurysm. *Crit Care nurse* Aug, 2000;20:38-51.
42. Lederle F, Johnson G, Wilson S, Chute E, Hye R, **Makaroun M**, Barone G, Bandyk D, Moneta G, Makhoul R, and the ADAM investigators. The Aneurysm Detection and Management Study Screening Program: validation cohort and final results. *Arch Int Med* 2000;160:1425-30.
43. Lederle F, Johnson G, Wilson SE, Littooy F, Krupski W, Bandyk D, Acher C, Chute E, Hye R, Gordon I, Freischlag J, Averbrook A, **Makaroun M**, and the ADAM investigators. Yield of Repeated Screening for Abdominal Aortic Aneurysm after a 4 Year Interval. *Arch Int Med* 2000;160:1117-21.
44. Johnson W, and the [Veterans Administration Cooperative Study Group 141; **Makaroun M**]. A comparative evaluation of PTFE, umbilical vein and saphenous vein bypass grafts for femoral-popliteal above knee revascularization: A prospective randomized Department of Veterans Affairs Cooperative Study. *J Vasc Surg* 2000;32:268-277.
45. Eskandari MK, **Makaroun M**, Abu-Elmagd KM, Billiar TR. Endovascular repair of a primary aortoduodenal fistula. *J Endovasc Therapy* 2000;7:328-332.
46. Eskandari MK, Sugimoto H, Webster MW, **Makaroun M**. Is Color-Flow doppler ultrasonography a good screening test for the detection of calf vein thrombosis in high-risk patients? *Angiology* 2000;51:705-10.
47. Amesur NB, Zajko AB, Orons PD, **Makaroun MS**. Endovascular treatment of iliac limb stenoses or occlusion in 31 patients treated with the Ancure endograft. *J Vasc Int Rad* 2000;11:421-428.
48. Raghavan ML, Vorp DA, Federle MP, **Makaroun MS**, Webster MW. Wall stress distribution on three dimensionally reconstructed models of human abdominal aortic aneurysm. *J Vasc Surg* 2000;31:760-9.
49. Bertges D, Rhee RY, Muluk S, Trachtenberg J, Steed D, Webster M, **Makaroun M**. Is routine use of the Intensive Care Unit after elective infrarenal abdominal aortic aneurysm repair necessary? *J Vasc Surg* 2000;32:634-642.
50. Rhee RY, Eskandari MK, Zajko AB, **Makaroun M**. Long-term fate of the aneurysmal sac after endoluminal exclusion of abdominal aortic aneurysms. *J Vasc Surg* 2000;32:689-696.
51. **Makaroun M**, Deaton D and the EVT investigators; Is proximal neck dilatation after endovascular aneurysm exclusion a cause for concern? *J Vasc Surg* 2001;33:S39-45.
52. **Makaroun M**. The Ancure Endografting system: An update. *J Vasc Surg* 2001;33:S129-34.
53. Muluk S, Muluk V, Kelley M, Whittle J, Tierney J, Webster M, **Makaroun M**. Outcome Events in Patients with Claudication: A 15-year study in 2777 patients. *J Vasc Surg* 2001;33:251-58.
54. Moore WS, Brewster DC, Bernhard VM for the EVT/Guidant Investigators [**Makaroun MS**]. Aorto-Uni-Iliac Endograft for Complex Aortoiliac Aneurysms compared with Tube/Bifurcation Endografts: Results of the EVT/Guidant Trials. *J Vasc Surg* 2001;33:S11-20.
55. Kibbe MR, Tzeng E, Gleixner SL, Watkins SC, Kovesdi I, Lizonova A, **Makaroun MS**, Billiar TR, Rhee RY. Adenovirus-mediated gene transfer of human inducible nitric oxide synthase in porcine vein grafts inhibits intimal hyperplasia. *J Vasc Surg* 2001;34:156-165.
56. Lederle FA, Johnson GR, Wilson SE /Aneurysm Detection and Management Veterans Affairs cooperative study [**Makaroun MS**]. Abdominal aortic aneurysm in women. *J Vasc Surg* 2001;34:122-126.
57. Vorp DA, Lee PC, Wang DJ, **Makaroun MS**, Nemoto EM, Ogawa S, Webster MW. Association of Intraluminal Thrombus in Abdominal Aortic Aneurysm with Local Hypoxia and Wall Weakening. *J Vasc Surg* 2001;34:291-99.
58. Aquino R, Jones MA, Zullo TG, Missig-Carroll N, **Makaroun MS**. Quality of Life Assessment in Patients Undergoing Endovascular or Conventional AAA repair. *J Endovasc Ther* 2001;8:521-28.
59. Aquino RV, Rhee RY, Muluk SC, Tzeng EY, Carrol N, **Makaroun MS**. Exclusion of Accessory Renal Arteries during Endovascular Repair of Abdominal Aortic Aneurysms. *J Vasc Surg* 2001;34:878-84.
60. Aquino RV, Johnnides C, **Makaroun M**, Whittle JC, Muluk VS, Kelley ME, Muluk SC. Natural History of Claudication: Long-term serial follow-up study of 1244 claudicants. *J Vasc Surg* 2001;34:962-70.
61. Wang DHJ, **Makaroun M**, Webster MW, Vorp DA. Mechanical Properties and Microstructure of

- Intraluminal Thrombus from Abdominal Aortic Aneurysm. *J Biomech Eng* 2001;123:536-39.
62. 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. *Ann Vasc Surg* 2002;16:29-36.
63. **Makaroun MS**, Chaikof E, Naslund T, Matsumura JS for the EVT investigators. Efficacy of the Bifurcated Ancure endograft vs open repair of Abdominal Aortic Aneurysms: A reappraisal. *J Vasc Surg* 2002;35:203-10.
64. Johnson WC, Williford WO and members of the department of Veterans Affairs Cooperative Study #362 [**Makaroun MS**]. Benefits, Morbidity and Mortality Associated with Long Term Administration of Oral Anticoagulants to Patients with Peripheral Arterial Bypass Procedures: A Prospective Randomized Study. *J Vasc Surg* 2002;35:413-21.
65. Deaton DH, **Makaroun MS**, Fairman RM. Endoleak: Predictive Value for Aneurysm growth at 3 Years. *Ann Vasc Surg* 2002;16:37-42.
66. Lederle FA, Wilson SE, Johnson GR, Reinke DB, Littooy FN, Acher CW, Ballard DJ, Messina LM, Gordon IL, Chute EP, Krupski WC, [Busuttill SJ, Barone GW, Sparks S, Graham LM, Rapp JH, **Makaroun MS**, Moneta GL, Cambria RA, Makhoul RG, Eton D, Ansel HJ, Freischlag JA,] Bandyk D. Immediate Repair compared with Surveillance of Small Abdominal Aortic Aneurysms. *N Engl J Med* 2002;346:1437-44.
67. Veith FJ, Baum RA, Ohki T, Amor M, Adiseshiah M, Blankensteijn JD, Buth J, Chuter TA, Fairman RM, Gilling-Smith G, Harris PL, Hogson KJ, Hopkinson BR, Ivancev K, Katzen BT, Lawrence-Brown M, Meier GH, Malina M, **Makaroun MS**, Parodi JC, Richter GM, Rubin GD, Stelter WJ, White GH, White RA, Wisselin KW, Zarins CK. Nature and Significance of Endoleaks and Endotension: Summary of Opinions Expressed at an International Conference. *J Vasc Surg* 2002;35:1029-35.
68. Fairman RM, Baum RA, Carpenter JP, Deaton DH, **Makaroun MS**, Velasquez OC. Limb Interventions in Patients Undergoing Treatment with an Unsupported Bifurcated Aortic Endograft System: A Review of the Phase II EVT Trial. *J Vasc Surg* 2002;36:118-26.
69. Wang DH, **Makaroun MS**, Webster MW, Vorp DA. Effect of Intraluminal Thrombus on Wall Stress in Patient-Specific Models of Abdominal Aortic Aneurysm. *J Vasc Surg* 2002;36:598-604.
70. Jarrett F, **Makaroun MS**, Rhee RY, Bertges DJ: Superficial Femoral Artery Aneurysms: An Unusual Entity? *J Vasc Surg* 2002;36:571-4.
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**REVIEWS, INVITED PAPERS and COMMENTARIES, PROCEEDINGS, BOOKS, BOOK CHAPTERS**

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### **GUEST EDITOR**

1. **Makaroun MS** and J Cho. Perspectives in Vascular Surgery and Endovasc Therapy June 2007 Vol. 19.

### **PUBLISHED ABSTRACTS**

1. Moosa H, Falanga F, **Makaroun M**, Peitzman A, Steed D, et al. Oxygen diffusion in chronic venous ulceration. Clin Res 1985;33:667.
2. Moosa H, Falanga F, **Makaroun M**, Peitzman A, Steed D, et al. Oxygen diffusion in chronic venous ulceration. J Invest Dermatol 1985;84:358
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4. Raghavan ML, Webster MW, Steed DL, **Makaroun M**, Muluk SC, Shapiro R, Vorp DA, "Ex-Vivo Mechanical Properties of the Normal and Aneurysmal Abdominal Aorta", Ann Biomed Eng 23 (Suppl. 1): S31, 1995.
5. Wang DHJ, Henchir KA, **Makaroun MS**, Webster MW, Vorp DA. Mechanical properties of Intraluminal Thrombus from Abdominal Aortic Aneurysm. Ann of Biomed Eng 1998;26 (suppl 1):69.
6. Raghavan M, Vorp D, Federle M, **Makaroun M**, Webster M. Mechanical wall stresses on three-dimensionally reconstructed models of abdominal aortic aneurysm. Ann Biomed Eng 1999.
7. Wang D, Schiro B, **Makaroun M**, Webster M, Vorp D. Effect of Intraluminal Thrombus on local abdominal aortic aneurysm wall strength. Ann Biomed Eng 1999 Vol 48.
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9. Amesur NB, Zajko AB, Orons PD, Bertges D, **Makaroun MS**. Mid term Clinical Follow-up of Aortic Aneurysm Sac Shrinkage after Percutaneous Coil Embolization of Endoleaks. JVIR 2001 suppl 12:S43.
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12. Di Martino ES, wang DHJ, Redaelli A, **Makaroun MS**, Vorp DA. Effect of Variations in Intraluminal Thrombus Constitutive Properties on Abdominal Aortic Aneurysm Wall Stress: A Parameter study. BED Vol 51 Nov 2001.
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14. Di Martino ES, **Makaroun MS**, Vorp DA. Abdominal Aortic Aneurysm Wall Stresses After

- Endovascular Repair. *BED Vol 53. 2002 Advances in Bioengineering.*
15. Dillavou ED, Buck DG, Muluk SC, **Makaroun MS**. Two-dimensional versus 3-dimensional CT: Defining the gold standard for Aortic Measurement. *J End Ther* 2003;10:115.
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63. Sridharan ND, Liang N, Robinson D, Avgerinos E, Tzeng E, **Makaroun MS**, Chaer RA, Eslami MH Implementation of drug-eluting stents for the treatment of femoropopliteal disease provides significant cost-to-system savings in a single-state outpatient simulation. *J Vasc Surg*. 2018 May 18. pii: S0741-5214(18)30439-7.
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71. Domenick Sridharan N, Fish L, Yu L, Weisbord S, Jhamb M, **Makaroun MS**, Yuo TH. The associations of hemodialysis access type and access satisfaction with health-related quality of life. *J Vasc Surg.* 2018 Jan;67(1):229-235. doi: 10.1016/j.jvs.2017.05.131. Epub 2017 Aug 16.

## PROFESSIONAL ACTIVITIES

### TEACHING

#### University Of Pittsburgh

##### Residents and Medical Students

1985-1993	First Year Medical Students Course: Clinical Correlation in Anatomy	University of Pittsburgh Department of Anatomy VA Medical Center
1985-1993	Weekly Vascular Conferences and Mortality/Morbidity Conferences	UPMC Hospitals
1985-Present	Weekly Vascular Conferences and Mortality/Morbidity Conferences	UPMC Hospitals
1985-Present	Third and Fourth Year Medical Student Clerkship in General Surgery (OR, wards, lectures, small group discussion)	University of Pittsburgh School of Medicine
1985-Present	Daily teaching rounds, supervision of house staff in the operating room and on the wards	UPMC Hospitals and VA Medical Center

##### Surgical Grand Rounds Presentations, University Of Pittsburgh School of Medicine

1985, May	Transcutaneous PO2 Measurements
1986, Jan	The Pharmacologic Treatment of Intermittent Claudication
1986, Nov	The Truth About False Aneurysms
1990, Oct	Vascular Reconstructions in the Treatment of Peripheral Ulcerations
1992, Dec	Aortoiliac Occlusive Disease
1993, Oct	Carotid Artery Disease: Controversial Aspects
1994, Apr	Management of Abdominal Aortic Aneurysms
1994, Nov	Challenges in Vascular Access for Hemodialysis
1995, Dec	Endovascular Surgery
1997, Feb	Update on Endovascular Surgery
1999, Sep	Endovascular Aneurysm Repair
1999, Dec	The Endovascular Revolution
2007, Dec	Thoracic Endografts in Clinical Practice.

##### Courses Taught

1997-1998	Surgical Management of Abdominal Aortic Aneurysms Graduate PhD Course #5902 University of Pittsburgh School of Nursing
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##### Clinical Research Mentorships

1997-2000	Mildred Jones, Doctoral Student, University of Pittsburgh School of Nursing
1997-1999	Hiroatsu Sugimoto, Carnegie-Mellon University undergraduate mechanical engineering student
1999-present	Vascular fellows in training

##### Training Course Director For Vascular Specialists: The Use of The Ancure Endograft

UPMC Shadyside: 2-3x monthly Nov 99 to 2002

##### Training Course Director For Vascular Specialists: The Use of The TAG Endograft

UPMC Shadyside: 6 courses from 4/05 to present

Annual Pittsburgh Vascular Symposium Director: 2002-Present

Carotid Stenting Course Director. EVS Annual Meeting 2005

**Invited Presentations**

**Local and Regional**

- 1982 Penetrating Injuries of the Colon / Senior Resident Lecture, Department of Surgery  
1983 Thyroid and Parathyroid Crises / Chief Resident Lecture, University of Pittsburgh  
1986, Feb Asymptomatic Carotid Stenosis / Ellwood City Hospital Outreach  
1986, Mar Transcutaneous Oxygen Measurements / Allegheny General Hospital Grand Rounds  
1988, May The Choice of Graft Material For Lower Extremity Revascularization / PG Course: "Current Issues in Vascular Surgery" University of Pittsburgh  
1989, Mar Management of Infected Vascular Grafts / Latrobe Hospital Continuing Education Program  
1990, Sept Chronic Arterial Ischemia / PG Course: "Primary Management of Peripheral Vascular Disease" University of Pittsburgh  
1990, Nov Diagnosis and Management of Abdominal Aortic Aneurysms / Greene County Memorial Hospital Continuing Education Program  
1992, Nov Evaluation of Patients With Lower Extremity Ulcers / Postgraduate Course: "Management of Lower Extremity Ulcers" University of Pittsburgh  
1993, Oct The Non-Invasive Vascular Laboratory in the Evaluation of Lower Extremity Ulcers / PG Course: "Management of Problem Wounds: Leg Ulcers" University of Pittsburgh  
1993, Nov The Non-Invasive Vascular Laboratory in the Evaluation of Cerebrovascular Disease / PG Course: "Stroke Update" University of Pittsburgh  
1993, Dec Carotid Endarterectomy / The South Side Hospital Continuing Education Program  
1994, Apr Diagnostic Ultrasound in Vascular Disease / Ohio Valley Hospital Continuing Education Program  
1994, Oct Carotid Artery Disease: An Update / Butler County Medical Society  
1995, Apr Endovascular Surgery / ACS/Allegheny Vascular  
1995, May Diagnosis of Ischemic Ulcers / PG Course: "Management of Leg Ulcers" University of Pittsburgh  
1996, Apr Endovascular Aneurysm Management / ACS/Allegheny Vascular  
1996, Apr Compression Garments / Postgraduate Course: "Wounds and Leg Ulcers" University of Pittsburgh  
1996, Apr Anatomy, Physiology, and Clinical Aspects of Cerebrovascular Disease / Sixth Annual Vascular Symposium, Greater Pittsburgh Vascular Technologists Annual Meeting  
1996, Jul Endovascular Surgery / EEIP Anesthesia In-Service  
1996, Aug Endovascular Surgery / OR Nurses In-Service  
1996, Oct Endovascular Aneurysm Repair / SMARTS Conference, UPMC Passavant  
1996- Nov Endovascular Surgery / Surgery Journal Club  
1996, Dec Endovascular Aneurysm Repair / St. Margaret's Hospital Surgical Rounds  
1997, Feb Endovascular Aneurysm Repair / St. Margaret's Hospital Surgical Rounds  
1997, Apr Management of The Ischemic Ulcer / PG Course: "Problem Wounds and Leg Ulcers" University of Pittsburgh  
1997, Apr Carotid Artery Disease / Washington Hospital Continuing Education Program, Washington PA  
1997, Sept Update on the Management of Abdominal Aortic Aneurysms / Medicine Grand Rounds, University of Pittsburgh  
1997, Sept When is Carotid Ultrasound and TCD Helpful / PG Course: "Stroke Update" University of Pittsburgh  
1997, Sept Current Thoughts on Carotid Endarterectomy / PG Course: "Stroke Update" University of Pittsburgh  
1998, Apr Improving Blood Flow to the Ischemic Ulcer / PG Course: "Management of Problem Leg Ulcers" University of Pittsburgh  
1998, Jul Improving Blood Flow to the Ischemic Ulcer / PG Course: "Management of Problem Leg Ulcers" University of Pittsburgh  
1998, Sept Improving Blood Flow to the Ischemic Ulcer / PG Course: "Management of Problem Leg Ulcers" University of Pittsburgh

- 1998, Sept Endovascular Graft Repair of Aneurysms / Allegheny Vascular Society  
1998, Nov Improving Blood Flow to the Ischemic Ulcer / PG Course: "Management of Problem Leg Ulcers"  
University of Pittsburgh  
1998, Nov Endovascular Aneurysm Repair / PG Course: "Minimally Invasive Surgery" University of  
Pittsburgh  
1999, Oct Diagnosis and Treatment of Intermittent Claudication / Medical Grand Rounds, The Beaver  
Medical Center, Beaver PA  
1999, Nov Treatment of Peripheral Arterial Disease / Monthly conference, Indiana Hospital, Indiana PA  
2000, Feb Diagnosis and Treatment of Intermittent Claudication / Medical grand Rounds, St Francis Hospital,  
Pittsburgh PA  
2000, Feb Diagnosis and Treatment of Intermittent Claudication / Washington County Medical Society,  
Washington, PA  
2000, Sept Endovascular Aneurysm Repair / Washington Hospital course, Oglebay WV  
2001, Jan Endovascular Aneurysm Repair / St. Clair Hospital. Primary Care Rounds. Pittsburgh PA  
2001, Apr Endovascular Aneurysm Repair / SWP chapter ACS Pittsburgh PA  
2001, Apr Endovascular Aneurysm Repair / St. Margaret Hospital Surgical rounds  
2001, Sept Endovascular Aneurysm Repair / Washington Hospital course, Quicksilver PA  
2002, May Endovascular Aneurysm Repair: Current Grafts. 1<sup>st</sup> Annual Symposium. University Of Pittsburgh  
2003, Sept Endovascular Aneurysm Repair is the Treatment of Choice. 2<sup>nd</sup> Annual Pittsburgh Vascular  
Symposium  
2003, Sept Thoracic Endografts are Best. 2<sup>nd</sup> Annual Pittsburgh vascular Symposium. University of Pittsburgh.  
2004, Sept Is Cerebral Protection in Carotid Artery Stenting Necessary? 3<sup>rd</sup> Annual Pittsburgh Vascular  
Symposium. University of Pittsburgh  
2008, Jan Thoracic Endografts in Clinical Practice. Allegheny General Hospital Surgery Grand Rounds  
2010, Sept Late Complications of EVAR. 9<sup>th</sup> Annual Pittsburgh Vascular Symposium. University of  
Pittsburgh  
2010, Sept Beyond the Horizon: Innovative Ways to Deal with Thoracic Aortic Pathology. 9<sup>th</sup> Annual  
Pittsburgh Vascular Symposium. University of Pittsburgh  
2011, Sept Fenestrated Stent Graft for Juxtarenal AAA: Is It Ready for Prime Time? 10<sup>th</sup> Annual Pittsburgh  
Vascular Symposium. University of Pittsburgh  
2011, Sept What Is More Precious: Brain Vs. Heart? Is CAS Worth It? 10<sup>th</sup> Annual Pittsburgh Vascular  
Symposium. University of Pittsburgh  
2014, July Trends in EVAR. University of Pittsburgh School of Medicine Aneurysm Workshop. University  
of Pittsburgh  
2015, Sept CREST-2 Trial Update. Pittsburgh Vascular Symposium  
2018, May Eye Opener Quiz — Fake News. Pittsburgh Vascular Symposium. Pittsburgh, PA

**National**

- 1999, Nov Diagnosis and Treatment of Intermittent Claudication/Medical GR, Aultmann Hospital, Canton OH  
2000, Jan Endovascular Aneurysm Repair / Surgical GR, North Shore University Hospital, Manhasset NY  
2000, Apr Diagnosis and Rx of Intermittent Claudication/Medical GR, St. Elizabeth Hospital, Youngstown  
OH  
2000, Jul Neck dilatation after endovascular repair: A cause for concern / PVI symposium, Orlando FL  
2000, Oct EVT Clinical trial results/American College of Surgeons, Endovascular Session, Chicago IL  
2000, Nov Is Open Treatment of AAA a thing of the past? Dartmouth Hitchcock Medical Center Surgical  
Grand Rounds, Lebanon NH  
2000, Nov Is routine use of the ICU necessary after repair of AAA / 27<sup>th</sup> VEITH Symposium, New York NY  
2001, Feb Endovascular repair of AAA: Current Status / First Vascular and Endovascular Surgery  
Symposium. Medical College of Ohio, Toledo OH

- 2001, Jul Fatigue Fractures, Suture Disruption, Endoleaks, Is it time to return to open repair? / PVI Symposium, Orlando FL
- 2001, Sept State of the Art lecture: Endovascular Aneurysm repair /University of Chicago Symposium, Chicago IL
- 2001, Sept Endovascular grafts:The Good, the Bad and The Ugly/Delaware Vascular Society, Philadelphia PA
- 2001, Nov Endovascular Aneurysm Repair: Random Thoughts / Cleveland Clinic Rounds, Cleveland OH
- 2001, Nov Top ten tips for deployment of the Ancure endograft / 28<sup>th</sup> VEITH symposium, New York NY
- 2001, Dec Is Neck Dilatation after EVAR a Cause for Concern / St. Thomas Postgraduate course, St. Thomas VI
- 2001, Dec The Ancure Endograft: Applications and Clinical Trial Results / St Thomas Post-graduate course.
- 2002, Feb Ancure User Forum Moderator / Penn State University, Hershey PA.
- 2002, Mar Aneurysm Repair: Open or Endovascular? / Central Surgical Invitation Clinic Day, University of Pittsburgh
- 2002, May Duplex Scan for Endograft Surveillance: Can it replace CT? / Symposium on the Modern Non-Invasive Vascular Laboratory: Diagnosis and Therapy / Eastern Vascular Society, Boston MA
- 2002, Jun The Ancure Aorto-Uni-Iliac Device / AAVS/ SVS postgraduate course. Endovascular Symposium,
- 2002, Oct The case against EVAR for Auptured?? Abdominal Aortic Aneurysm / Aortic Summit Meeting. Stanford, San Francisco CA.
- 2002, Nov Neck Dilatation: When will it be a problem and when will it not? / 29<sup>th</sup> VEITH Symposium, New York NY
- 2003, Jan Endografts for AAA Debate: Treatment of Choice! / 15<sup>th</sup> International Symposium on Endovascular Therapy ISET, Miami FL
- 2003, Jan Tips and Tricks for Ancure Implantation / 15<sup>th</sup> ISET Symposium, Miami FL
- 2003, Jan Aneurysm Sac Changes after Endograft Repair are Endograft Dependent / 15<sup>th</sup> ISET, Miami FL
- 2003, Mar Open Surgical Conversion after EVAR: Techniques and Avoidance of Pitfalls. Consensus Conference / Society for Clinical Vascular Surgery SCVS, Miami FL
- 2003, Mar Surgical Treatment of Peripheral Vascular Disease is Obsolete! The Great Debate. Abdominal Aortic Aneurysm for Position /SCVS, Miami FL
- 2003, Apr Endovascular Aneurysm Repair: Current Status / Northwestern University Hospital, Vascular Conference, Chicago IL
- 2003, May The Ancure Endograft: Practical Considerations / Endovascular Interventions Symposium. Eastern Vascular Society, New York NY
- 2003, May The Excluder System: Practical Considerations / Endovascular Interventions Symposium. Eastern Vascular Society, New York NY
- 2003, Nov Does the Type of Graft Influence Aortic Neck Enlargement After EVAR: Comparison of Four Grafts / 30<sup>th</sup> VEITH Symposium, New York NY
- 2003, Nov Present Results Mandate EVAR for any Patient with Suitable Anatomy: An Aggressive Approach / 30<sup>th</sup> VEITH Symposium, New York NY
- 2004, Feb Type III Thoracic Dissection should be treated by conservative management / ISES, Scottsdale AZ
- 2004, Feb Current Volume Trends in Aneurysm Repair in the US / ISES, Scottsdale AZ
- 2004, Mar Troubleshooting a Type I endoleak / 32<sup>nd</sup> Annual Symposium, SCVS, Rancho Mirage CA
- 2004, Mar Thoracic Endografts: Current Status. Recent advances in Vascular Diseases / Maimonides Vascular Symposium, New York NY
- 2004, Oct Treatment of Descending Thoracic Aneurysms Endografts with the Gore TAG device / UCLA Symposium on Endovascular Surgery, Los Angeles CA
- 2005, Aug Thoracic Aortic Endografts / Grand Rounds, SUNY Upstate Medical Center, Syracuse NY
- 2005, Oct Thoracic Aortic Endografts / Grand Rounds, George Washington University Medical Center
- 2005, Nov Results of the Pivotal trial with the Gore TAG Thoracic for Thoracic aneurysms / 32<sup>th</sup> VEITH Symposium, New York NY
- 2005, Nov Intravascular Coil Embolization Can Cure Most Type II Endoleaks and Some Type I Endoleaks:

- How To Do It / 32<sup>th</sup> VEITH Symposium, New York NY
- 2005, Nov Vascular Surgeon's Perspective on Endovascular Training: Lessons for Cardiovascular Surgeons / Novo Therapies, Phoenix AZ
- 2005, Nov Results From the Gore TAG US Phase II Multicenter Trial / Novo Therapies, Phoenix AZ
- 2005, Nov Managing Complications Associated with Thoracic Endografting / Novo Therapies, Phoenix AZ
- 2005, Jun Hepatic Chemoembolization / E Stanley Crawford Critical Issues Forum, Vascular Annual Meeting 2005, SVS, Chicago IL
- 2006, Jan Results of the GORE TAG Thoracic Endoprosthesis Trials / 2006 Aortic Summit, Phoenix AZ
- 2006, Feb Thoracic Aortic Endografts / Surgical Grand Rounds, University of Texas, San Antonio TX
- 2006, Feb A randomized trial of carotid stenting with and without cerebral protection / ISES, Scottsdale AZ
- 2006, Feb Carotid stenting in the octogenarian is it appropriate? / ISES, Scottsdale AZ
- 2006, Feb Carotid Stenting Protection Systems: Pros and Cons / Philadelphia Vascular Symposium, Philadelphia PA
- 2006, Apr Thoracic Aortic Endografts / Surgical Grand Rounds, SUNY, Stony Brook NY
- 2006, July Carotid stenting. A surgeon's perspective / New Devices Seminar, Orlando FL
- 2006, Oct Carotid stenting future. A niche procedure at best / Eastern Vascular Society, Washington DC
- 2006, Oct Thoracic endografts: Current Status. UCLA Symposium, Los Angeles CA
- 2006, Oct Endografts in Thoracic Aortic Diseases / University of Vermont, Burlington VT
- 2006, Nov Is CAS contraindicated in Octogenarians? If so why? / VEITH Symposium, New York NY
- 2006, Nov Randomized trial of CAS with and without cerebral protection / VEITH Symposium, New York NY
- 2006, Nov Late term results of the phase II trial of the TAG thoracic endograft vs. Open Surgical Repair / VEITH symposium, New York NY
- 2006, Dec Complex thoracic aneurysm reconstructions / Advanced Thoracic Course, Chicago, IL
- 2006, Dec Paraplegia after thoracic endografts / Advanced Thoracic Course, Chicago, IL
- 2007, Jan Thoracic Endografts: Current Status / The John Porter Lecture, OHSU, Portland OR
- 2007, Feb Late results of a comparative trial of endografts repair of thoracic aneurysms vs Open repair / Phoenix, AZ
- 2007, Feb Anatomic Predictors of High Risk for carotid artery stenting. XX International Congress on Endovascular Interventions / ISES, Scottsdale AZ
- 2007, Mar Management of Carotid Bifurcation Disease: Houston, The Eagle has Landed. Surgical Grand Rounds. Baylor College of Medicine, Houston TX
- 2007, Mar The Current Clinical Conundrum: How do we select the ideal management strategy based on aneurysm anatomy and patient physiology / Society of Interventional Radiology (SIR). Seattle WA
- 2007, Mar The New Integrated Program in Vascular Surgery Training / APDVS, Washington DC
- 2007, May Carotid Endarterectomy: Gold standard or a relic from the past / UMDNJ, Norman and Ruth Rosenberg Lecture, New Brunswick NJ
- 2007, Apr Chemoembolization for liver tumors / Spring meeting of the ACS, Las Vegas NV
- 2007, Jun Incentive plans for a Vascular Surgery Division: Can we properly compensate clinical and academic activities / Association of Chiefs in Vascular Surgery, SVS, Baltimore MD
- 2007, Aug Cerebral protection devices. Do we need them? / Stent Summit, Cleveland OH
- 2007, Sept Cerebral protection devices: Current Tools and Applications / 21<sup>st</sup> Annual Meeting of the Eastern Vascular Society, Baltimore MD
- 2007, Oct Thoracic endografts: Current status / UCLA Symposium, Los Angeles CA
- 2007, Oct Carotid endarterectomy will remain the best treatment for carotid artery stenosis / American College of Surgeons, New Orleans LA
- 2007, Nov What lesion characteristics are associated with high risk for carotid artery stenting. Long lesions are dangerous / VEITH symposium, New York NY
- 2007, Nov Long-Term (5-Year) Trial Results Of TAA Repair With The Gore TAG Endograft: Up To 45 mm In Diameter / VEITH symposium, New York NY
- 2007, Dec Endovascular Repair is the Gold Standard for Abdominal Aortic Aneurysm Repair: A Debate /



- Northwestern Symposium, Chicago IL
- 2008, Jan Clinical experience with a new endograft for abdominal aortic aneurysm repair / ISET meeting, Miami, FL
- 2008, Feb A 6 months CT after a normal one month CT for the follow-up of EVAR is useless / ISES, Scottsdale AZ
- 2008, Mar The 5 year integrated program in vascular surgery. What do we have now? / SCVS, Las Vegas NV
- 2008, Apr Can duplex ultrasonography be used as the only study to follow grafts after endovascular aortic aneurysm repair? / 16<sup>th</sup> Annual Pennsylvania Hospital Vascular Symposium, Philadelphia PA
- 2008, Apr Endovascular aortic aneurysm repair should be the standard for everyone-even good risk patients /16<sup>th</sup> Annual Pennsylvania Hospital Vascular Symposium, Philadelphia PA
- 2008, May How I choose an Endograft to use for EVAR / MGH Course, Boston MA
- 2008, May Current role of EVAR for ruptured AAA-Is it a better way? / MGH Course, Boston MA
- 2008, June Debate: Best Available Therapy for Carotid Artery Disease: CEA vs CAS / SVS Vascular annual meeting, San Diego CA
- 2008, Aug Endovascular repair of abdominal aortic aneurysms / Milwaukee Heart Center, Milwaukee WI
- 2008, Aug Debranching for the treatment of thoracoabdominal aortic aneurysms with endografts / Milwaukee Heart Center, Milwaukee WI
- 2008, Sept Thoracic Endografts. Current Status and Clinical Results / UCLA Symposium, Los Angeles CA
- 2008, Sept Can Carotid Endarterectomy and carotid Artery Stenting Coexist? / Grand Rounds, Department of Surgery, Mt. Sinai School of Medicine, New York NY
- 2008, Sept New vascular training paradigms in vascular surgery, 2+3 = 7. / Michigan Vascular Surgery yearly invited guest, Detroit MI
- 2008, Nov Duplex criteria for in stent restenosis in the SFA / VEITH Symposium 2008, New York NY
- 2008, Nov CT scans are overused in FU of EVAR: Many can be omitted or replaced by duplex saving dollars and decreasing radiation exposure / VEITH Symposium 2008, New York NY
- 2009, May Endovascular repair of Aortic Aneurysms / Grand Rounds Presentation, The University of West Virginia, Charleston WV
- 2009, Jun Type II endoleaks. When to treat, how to do it and does it work? / SVS annual meeting, Denver CO
- 2009, Sep Thoracic Endografts. Current Status and Clinical Results / The Wiley Barker Lecture, UCLA Symposium, Los Angeles CA
- 2009, Sep Thoracic Pathology: what to treat, how to treat and who should treat / Eastern Vascular Society, Philadelphia PA
- 2009, Sep The Battle of the States. A vascular Jeopardy game / Eastern Vascular Society, Philadelphia PA
- 2009, Sep My Worst Case / Eastern Vascular Society, Philadelphia PA
- 2009, Nov Optimal techniques for surveillance after EVAR in 2009 and beyond / VEITH meeting, New York NY
- 2009, Dec The Integrated Vascular Surgery Training Program / Surgery Grand Rounds, University of Pennsylvania, Philadelphia PA
- 2009, Dec Causes of Late EVAR failures / 34<sup>th</sup> Northwestern Vascular Symposium, Chicago IL
- 2010, Jan Carotid Endarterectomy Reborn / Atlanta Vascular Society, Atlanta GA
- 2010, Feb Rupture after EVAR is Not Benign / ISES, Scottsdale AZ
- 2010, Apr The Integrated Residency Corner / APDVS meeting, Chicago IL
- 2010, Sept The Science and Importance of Follow-Up / Cleveland Clinic Stent Summit VI, Cleveland OH
- 2010, Sept Endovascular Repair of Thoracic Aneurysm: Currently Available Devices and Results / 28<sup>th</sup> Annual UCLA Symposium, Los Angeles CA
- 2010, Oct Thoracic Endograft Use for Non-Aneurysmal Disease / 20th Annual West Virginia Vascular/Endovascular Surgery Symposium, White Sulphur Springs WV
- 2010, Oct Treatment of Type II Endoleak after EVAR / 20th Annual West Virginia Vascular/Endovascular Surgery Symposium, White Sulphur Springs WV

- 2010, Oct Optimal Treatment for Complex Aorto-Iliac Disease – Aortobifemoral Bypass Remains the Gold Standard / Vascular Interventional Advances (VIVA) 2010, Las Vegas NV
- 2010, Oct The Selection of Patients and Current Devices for TEVAR Procedure / ISES Mini-Symposium at Vascular Interventional Advances (VIVA) 2010, Las Vegas NV
- 2010, Oct Late Breaking Trials: ENDURANT Stent Graft / Vascular Interventional Advances (VIVA) 2010, Las Vegas NV
- 2010, Nov Rupture After EVAR IS NOT More Benign than the Usual Ruptured AAA / VEITH Symposium, New York NY
- 2010, Nov Contemporary 1-year EVAR Outcomes from the U.S. IDE Trial and ENGAGE Global Registry of the Endurant AAA Endograft Device / VEITH Symposium, New York NY
- 2010, Nov Most Type I Endoleaks are Dangerous and Must Be Treated (Web-Based) / VEITH Symposium, New York NY
- 2010, Dec Device Delivery: Special Considerations / Midwestern Vascular Surgical Society (MVSS), Madison WI
- 2010, Dec Visceral Reconstruction Techniques/Midwestern Vascular Surgical Society (MVSS), Madison WI
- 2011, Feb The Integrated Pathway to Vascular Surgery Training / Thomas Jefferson University Hospital, Department of Vascular Surgery Grand Rounds, Philadelphia PA
- 2011, Feb Update on the ENDURANT Trial / iCON 2011, Phoenix AZ
- 2011, Mar Current State of Thoracic Endovascular Aortic Repair (TEVAR) / Total Endovascular Series 2011, Houston TX
- 2011, Mar Summary of the 2011 Student Match / Association of Program Directors in Vascular Surgery (APDVS) Spring Meeting 2011, Chicago IL
- 2011, Aug Current Status of Approved Devices and Current Clinical Trials / Cleveland Clinic Stent Summit, Cleveland OH
- 2011, Sept Endovascular Repair of Thoracic Aneurysm: Currently Available Devices and Results / 29<sup>th</sup> Annual UCLA Symposium, Los Angeles CA
- 2011, Oct Carotid Stenting After CREST / Gulf Coast Vascular Society Meeting, New Orleans LA
- 2011, Oct Pulling the Seams Together: Summarizing Recent Trial Evidence on Comparative Effectiveness and Costs of Therapies / Vascular Interventional Advances (VIVA) 2011, Las Vegas NV
- 2011, Nov What Improvements Have Occurred With AAA EVAR Devices And How Are They Helping In Patient Treatment? / VEITH Symposium, New York NY
- 2011, Nov DEBATE: Nonsense - The Size Threshold for Elective EVAR Should Not Be Lowered / VEITH Symposium, New York NY
- 2011, Dec Expanded Use of Thoracic Endografts for Vascular Trauma / 39th Annual Society for Military Vascular Surgery, Rockville, MD
- 2012, Mar How Important is Cerebral Protection During CAS? / International Society for Vascular Surgery (ISVS) North American Congress, Miami FL
- 2012, Mar Latest Results of EVAR with the Endurant Endograft / International Society for Vascular Surgery (ISVS) North American Congress, Miami FL
- 2012, Mar Management of Endoleaks After EVAR / Houston Aortic Symposium, Houston TX
- 2012, Mar Summary of the 2012 Student Match / Association of Program Directors in Vascular Surgery (APDVS) Spring Meeting 2011, Chicago IL
- 2012, Apr Are fenestrated endografts the answer for juxtarenal AAA repair? / Harvard University Postgraduate Course, Boston MA
- 2012, Apr EVAR is the preferred treatment for all anatomically suitable AAA, even in young, good risk patients / Harvard University Postgraduate Course, Boston MA
- 2012, May Expanded Use of Thoracic Endografts / University of Massachusetts Ellinwood Lecture, Worcester MA
- 2012, June Simulation: It's Just a Waste of Time and Simulation: Applications for the Practicing Vascular Surgeon: Where We Came From, Where We Are, and How Far Should We Go? / Society for

- Vascular Surgery Annual Meeting, National Harbor MD
- 2012, Sept Endovascular Repair of Thoracic Aneurysm: Currently Available Devices and Results / 30<sup>th</sup> Annual UCLA Symposium Los Angeles CA
- 2012, Sept Interventions for Endoleak after EVAR / Eastern Vascular Society Annual Meeting, Pittsburgh PA
- 2012, Nov Two Decades of EVAR: The Good, The Bad and the Ugly / University of Alabama Birmingham Morton Lecture, Birmingham AL
- 2012, Nov The Case Against Embolic Protection Devices In CAS: Why Therefore Are They So Widely Used / VEITH Symposium, New York NY
- 2012, Nov Demonstrating Contemporary EVAR Durability – Endurant Midterm Results / VEITH Symposium, New York NY
- 2012, Nov DEBATE: Open Surgery Is Still Needed For Some Aortoiliac Occlusive Lesions: Which Ones. VEITH Symposium / New York NY
- 2012, Nov DEBATE: Nonsense: The SVS Guidelines Have It Right: CAS Is Not An Alternative To CEA For Most Symptomatic Patients With Carotid Stenosis / VEITH Symposium, New York, NY
- 2012, Nov Endovascular Graft Treatment of Popliteal Aneurysms Is As Effective As Open Surgery In Terms Of Long-Term Patency / VEITH Symposium, New York NY
- 2013, Feb New Offerings: The Aoro-Uniiliac Configuration: Indications and Results of a Phase II Trial / International Society for Vascular Surgery (ISVS) 2013 Congress, Miami FL
- 2013, Apr Endovascular Approaches for PVD in Younger Patients: Do They Have Worse Outcomes? / University of California San Francisco (UCSF) Vascular Symposium, San Francisco CA
- 2013, Apr Current Management of Acute Aortic Injuries / University of California San Francisco (UCSF) Vascular Symposium, San Francisco CA
- 2013, Apr New and Improved Choices for Endografts: Matching Anatomy to Device / University of California San Francisco (UCSF) Vascular Symposium, San Francisco CA
- 2013, Apr Optimizing the Results of Carotid Angioplasty / Cherry Blossom Vascular Symposium, Washington DC
- 2013, May Two decades of EVAR: The procedure that changed a specialty / Grand Rounds Southern Illinois University, Springfield IL
- 2013, Sept Endovascular Repair of Thoracic Aneurysm: Currently Available Devices and Results / 31<sup>st</sup> Annual UCLA Symposium, Los Angeles CA
- 2013, Oct CREST results do not justify more CAS cases / West Virginia University Symposium, WV
- 2013, Oct New EVAR devices expand applicability to hostile anatomy / West Virginia University Symposium, WV
- 2013, Nov The US Experience with the INCRAFT device. The INSPIRATION trial / VEITH Symposium, New York NY
- 2013, Nov Debate: CREST does not justify more CAS procedures in both symptomatic and asymptomatic patients / VEITH Symposium, New York NY
- 2013, Nov Debate: EVAR is no better than open repair for ruptured AAA / VEITH Symposium, New York NY
- 2013, Nov The future of low profile devices. Should we have any concerns? / VEITH Symposium, New York NY
- 2014, Mar Evolution of Vascular Surgery Fellowship / Society for Clinical Vascular Surgery 42<sup>nd</sup> Annual Symposium, Carlsbad CA
- 2014, Mar Summary of the 2014 Student Match / Association of Program Directors in Vascular Surgery (APDVS) Spring Meeting 2014, Chicago IL
- 2014, Sept Endovascular Repair of Thoracic Aneurysm: Currently Available Devices and Results / 32<sup>nd</sup> Annual UCLA Symposium, Los Angeles CA
- 2014, Sept TEVAR and Type B Aortic Dissection / Combined meeting of the Eastern and New England Vascular Societies, Boston MA
- 2014, Sept Two decades of EVAR / Mid-Ohio Endo Vascular Club, Columbus OH

- 2014, Sept Carotid Artery Stenosis: Have we studied it enough? / Luther M. Keith Lecture - Surgery Grand Rounds, Ohio State University, Columbus OH
- 2014, Nov Initial Experience with Gore TSSB Single Side Branch Device / Vascular Interventional Advances (VIVA) 2014, Las Vegas, NV
- 2014, Nov Debate: Open Surgical Repair Remains the Best Treatment Option for the Vast Majority of Juxtarenal AAA / Vascular Interventional Advances (VIVA) 2014, Las Vegas NV
- 2014, Nov Reconstructing the Aortoiliac Bifurcation: Optimal Techniques / Vascular Interventional Advances (VIVA) 2014, Las Vegas NV
- 2014, Nov DEBATE: Should Duplex Ultrasound Replace CTA For Post EVAR Surveillance: YES, In Most Cases / VEITH Symposium, New York NY
- 2014, Nov US Experience With The New Cordis Incraft For EVAR: Advantages And Limitations / VEITH Symposium, New York NY
- 2015, Feb More Studies of Carotid Artery Stenosis / Houston Vascular Club, Houston TX
- 2015, Feb EVAR 25 years later / Houston DeBakey Heart and Vascular Center Grand Rounds, Houston TX
- 2015, Sept Endovascular Repair of Thoracic Aneurysm: Currently Available Devices and Result / 33<sup>rd</sup> Annual UCLA Symposium, Los Angeles CA
- 2015, Oct The use of internal iliac branched grafts to save internal iliac artery flow / 25<sup>th</sup> Annual WVU Symposium, The Greenbrier, WV
- 2015, Oct Current use of endovascular repair for popliteal artery aneurysms / 25<sup>th</sup> Annual WVU Symposium, The Greenbrier, WV
- 2015, Nov Endovascular repair of thoracic aortic pathology / Grand Rounds, Heart and Vascular Institute, Cleveland Clinic, Cleveland OH
- 2015, Nov For Aortic Lesions that are Embolizing, Endograft Treatment is Generally The Best and the most Durable Treatment / VEITH Symposium, New York NY
- 2015, Nov We Still Need More Evidence Before We Treat Most Uncomplicated Acute/Subacute TBAD patients With TEVAR / VEITH Symposium, New York NY
- 2016, Feb Preserving Renal Arteries: Chimneys vs Fenestrated Grafts / International Symposium on Endovascular Therapy (ISET), Hollywood FL
- 2016, Feb Uncomplicated Type B: Who and How to Treat / ISET, Hollywood FL
- 2016, Feb Low Profile Device Development: Potential Advantages and Disadvantages / ISET, Hollywood FL
- 2016, Mar Single Arm Branched Grafts for the Thoracic Arch / Houston Aortic Symposium, Houston TX
- 2016, Apr Thoracic single-branch graft: Early application for arch aneurysms / XXIV Annual Pennsylvania Hospital Vascular Symposium, Philadelphia PA
- 2016, Apr My worst case with a bad outcome: My mother told me I should have become an accountant / XXIV Annual Pennsylvania Hospital Vascular Symposium, Philadelphia PA
- 2016, Aug Endovascular repair of thoracic aneurysms: Currently available devices and results / First Joint UCLA/SVS Course, Beverly Hills CA
- 2016, Sept Branched Thoracic Aortic Devices - Will We Conquer the Arch? / 30<sup>th</sup> Annual Eastern Vascular Society Meeting, Philadelphia PA
- 2016, Sept Academic Clinical Practice: Challenges in Vascular Surgery / 30<sup>th</sup> Annual Eastern Vascular Society Meeting, Philadelphia PA
- 2016, Nov Thoracic Single Endobranched Endograft (Gore TAG) For Treating Arch Aneurysms In Zones 0, 1 And 2: Technique, Advantages, Limitations and Early Results / VEITH Symposium, New York NY
- 2016, Nov Gore Multibranched Tambe Off-The-Shelf (OTS) Device For Treating TAAAs: Technique And Early Experience / VEITH Symposium, New York NY
- 2016, Nov DEBATE: Not So, Many Uncomplicated TBAD Patients Should Be Treated Medically: TEVAR Treatment Should Be Selective and We Need More Trials / VEITH Symposium, New York NY
- 2016, Nov Do New Low Profile EVAR Devices Come at the Cost of Poorer Durability? / VEITH Symposium, New York NY
- 2017, Feb Complex Proximal Necks: Fenestrated, Chimney and Other Solutions / ISET, Hollywood FL

- 2017, Feb Managing the Angled Neck / ISET, Hollywood FL
- 2017, Feb Single Arm Branched Grafts for the Thoracic Arch / The Houston Aortic Symposium, Houston TX
- 2017, April Are You Really a Surgeon? Reflections on Modern Vascular Surgery / Surgical Grand Rounds - Robert R. Linton Lecturer, Massachusetts General Hospital, Boston MA
- 2017, April What should be the Popliteal Aneurysm Treatment Guidelines: Role of Endovascular Repair / Massachusetts General Hospital Post-Graduate Course: Optimizing Outcomes in Vascular Surgery, Boston MA
- 2017, April Endovascular Aortic Aneurysm Repair after 25 years: Evolution of Endograft / Linton Lecture, Massachusetts General Hospital Post-Graduate Course: Optimizing Outcomes in Vascular Surgery, Boston MA
- 2017, April What are the indications to treat an endoleak after EVAR? / Massachusetts General Hospital Post Graduate Course: Optimizing Outcomes in Vascular Surgery, Boston MA
- 2017, April Results of the internal iliac branch graft devices to preserve internal iliac artery flow / Massachusetts General Hospital Post Graduate Course: Optimizing Outcomes in Vascular Surgery, Boston MA
- 2017, June Early Results from the Feasibility Trial of the Gore TAMBE Device: Lessons Learned / Society for Vascular Surgery 2017 Annual Meeting, San Diego, CA
- 2017, July Fenestrated and Branched Grafts (TEVAR) / Stanford Aortic Festgraft, San Jose CA
- 2017, Aug Endovascular Repair of Thoracic Aneurysm: Currently Available Devices and Results / Second Annual UCLA/SVS Course, Beverly Hills CA
- 2017, Sept Acute aortic syndromes. A new Frontier for vascular Surgeons / USC Gaspar Symposium on Vascular Emergencies, Los Angeles CA
- 2017, Sept Twenty five of EVAR. Evolution of Endografts / Surgical Grand Rounds, Gaspar Lecturer, Keck School of Medicine, University of Southern California. Los Angeles CA
- 2017, Oct Low Profile Endograft Developments / 27th Annual Vascular/ Endovascular Symposium, Greenbrier, WV
- 2017, Oct Branched System for Preservation of Internal Iliac Artery Flow/ 27th Annual Vascular/ Endovascular Symposium, Greenbrier, WV
- 2017, Oct Endovascular Abdominal Aortic Aneurysm Repair with Large Diameter Devices (35/36 mm) is Associated with Acceptable Risk of Device Failure / Eastern Vascular Society, Savannah, GA
- 2017, Oct Contemporary Results of Surgical Management of Peripheral Mycotic Aneurysms / Eastern Vascular Society, Savannah, GA
- 2017, Nov Bailout Techniques to Treat Persistent Type I Endoleaks: Technical Tips in Use of Cuffs, Coils, Anchors, And Liquid Embolics / AIM Symposium, New York NY
- 2017, Nov Debate: Why most Acute Uncomplicated TBAD Patients Should Not Be Treated By TEVAR: Which Ones Should Be and When / VEITH Symposium, New York NY
- 2017, Nov The Underlying Mechanism of Type 2 Endoleaks Associated with Sac Enlargement: What is the Impact on How They Should Be Diagnosed and Treated: Type 2 Endoleaks Can Be Dangerous / VEITH Symposium, New York NY
- 2017, Nov What Are the Options for Treating Type 3 And Type 4 TAAAs And When Should They Be Used / VEITH Symposium, New York NY
- 2017, Nov The Gore Single Branched TAG Thoracic Endograft And Treating Aortic Arch Lesions: Initial Clinical Results and Future Potential: Will It Supersede Multibranched Arch Endografts / VEITH Symposium, New York NY
- 2017, Dec The Integrated Vascular Residency Ten Years Later. Surgical Grand Rounds at Hospital of the University of Pennsylvania Medical Center, Philadelphia PA
- 2018, Mar Acute Aortic Syndromes. A new Frontier for Vascular Surgeons / Beth Israel Deaconess Medical Center, Boston MA
- 2018, Mar 25 years of EVAR: The Procedure that Defined a Specialty. Grand Rounds at Beth Israel Deaconess Medical Center, Boston MA

- 2018, Mar Women in Vascular Interventional Therapies – Past, Present & Future / Society for Clinical Vascular Surgery (SCVS), Las Vegas NV
- 2018, Apr Acute Aortic Syndromes: A New Frontier for Vascular Surgeons. Surgical Grand Rounds at Duke University, Durham NC
- 2018, Apr Acute Aortic Syndromes: A New Frontier for Vascular Surgeons / Pennsylvania Hospital Vascular Symposium, Philadelphia, PA
- 2018, May Acute Aortic Syndromes: A New Opportunity for Vascular Surgeons / St. Louis Vascular Society Meeting, St. Louis, MO
- 2018, May The Integrated Vascular Surgery Training Pathway after 10 Years. Surgery Grand Rounds at Washington University, St. Louis MO
- 2018, May A Modern Vascular Practice: Am I Still a Surgeon? Surgical Grand Rounds at Medical University of South Carolina, Charleston, SC
- 2018, Aug Case of Lost Access to the Subclavian Artery with a Looped Wire. 2018 Failure Analysis Advisory Board (FAAC), Jackson Hole, WY
- 2018, Aug Endovascular Repair of Thoracic Aneurysms: Currently Available Devices and Results / The 3rd Annual UCLA/SVS Course: A Comprehensive Review and Update of What's New in Vascular and Endovascular Surgery, Beverly Hills CA
- 2018, Oct Type II Endoleak with enlarging sac may be due to an occult type I or III endoleak / 28th Annual West Virginia Vascular/ Endovascular Surgery Symposium, Greenbrier, WV
- 2018, Oct Increasing use of Open Conversion after EVAR / 28th Annual West Virginia Vascular/ Endovascular Surgery Symposium, Greenbrier, WV
- 2018, Nov A Different Controversial Opinion: Not So: Why TEVAR Should Only Be Performed Selectively on Patients with Uncomplicated Acute TBADs / VEITH Symposium, New York NY
- 2018, Nov Update On The Gore Retrograde Single Branched Endograft Device For Treating Aortic Arch Lesions: Advantages, Precautions And Results / VEITH Symposium, New York NY
- 2018, Nov Downsides (Disadvantages) And Upsides (Advantages) Of Low Profile Devices for EVAR and TEVAR: There Are Tradeoffs /VEITH Symposium, New York NY
- 2019, Feb. President's Session: Highlights of AVF Publications, Presentations of Clinical and Research. American Venous Forum's 31st Annual Meeting, Rancho Mirage, CA
- 2019, Mar. Endoleak and Expanding AAA. The Houston Aortic Symposium: Frontiers in Cardiovascular Diseases, Houston, TX
- 2019, Apr. Acute Aortic Syndromes: A New Frontier for Vascular Surgeons. Surgical Grand Rounds at Georgetown, Washington, DC

### **International**

- 1997, May Xenon-Cerebral Blood Flow Measurements in Clinical Practice / Middle East Medical Assembly (MEMA). Beirut, Lebanon
- 1997, May Hypercoagulable States. Diagnosis and Implications for Clinical Practice /MEMA. Beirut, Lebanon
- 1997, May Endovascular Repair of Abdominal Aortic Aneurysms / MEMA. Beirut, Lebanon
- 1998, May Endovascular Grafts; EVT Trials / Association Argentina De Angiologia Y Cirugia. Buenos Aires, Argentina
- 1998, Oct Results of Phase II Trials of the Ancure Endovascular Grafts / Paris Guidant Postgraduate symposium. Paris, France
- 1998, Nov Endovascular Repair of Abdominal Aortic Aneurysms / Hopital Sirio Libanes, University of Sao

- Paolo. Sao Paolo, Brazil
- 1998, Dec Results of Phase II Trials of the Ancure Endovascular Grafts / “Aggiornamenti in Chirurgia Endovascolare: Il Trattamento Dell’aneurisma Dell’aorta addominale mediante endoprotesi”. European Hospital, University of Rome. Rome, Italy
- 1999, Jun Clinical Results of the Ancure Endograft / Guidant Symposium t the International Society of Endovascular Surgery. Siena, Italy
- 1999, Jun Clinical Results of the Ancure Endograft / Guidant Symposium at the French meeting for Endovascular Surgery. Ajaccio, France
- 2000, Dec The Ancure endograft: Early and Late Results / VI Pan American congress on Vascular and Endovascular Surgery. Rio De Janeiro, Brazil
- 2000, Dec Neck Dilatation and fate of the AAA sac after Exclusion / VI Pan American congress on Vascular and Endovascular Surgery. Rio De Janeiro, Brazil
- 2001, Mar Ancure Clinical Trial Results. / Surgical and Radiological Endovascular Symposium SRES 01. Santo Domingo, Dominican Republic
- 2001, Mar Hypercoagulable States and Unexplained Vascular Thrombosis / European Vascular Course 2001. Marseille, France
- 2001, Jun Endovascular Aneurysm repair: The University of Pittsburgh experience / VII annual congress of the Japanese society for endovascular interventions. Osaka, Japan
- 2001, Jun Endovascular aneurysm repair: Complications and troubleshooting / Osaka City University radiological rounds. Osaka, Japan
- 2001, Jun Endovascular aneurysm repair: The University of Pittsburgh experience / Hamamatsu University surgical rounds. Hamamatsu, Japan
- 2001, Aug Endovascular Aneurysm Repair. Surgical Grand Rounds American University Of Beirut. Beirut, Lebanon
- 2002, Mar AAA Endografts Long Term Results: Fatigue, Fractures, Suture Disruption, Endoleaks. Is it Time to Return to Open Repair? Surgical and Radiological Endovascular Symposium SRES02. St Martin
- 2002, Mar Excluder: US Pivotal Trial Update. European Vascular Course. Amsterdam, Netherlands
- 2002, Mar Excluder: US Pivotal Trial Update. University Of Malmo. Malmo, Sweden
- 2002, Mar Excluder: US Pivotal Trial Update. Royal College Of Surgeons. London, England
- 2002, Nov Quality of Life Study after AAA endograft Repair. VII Panamerican Congress on Vascular and Endovascular Surgery. Rio De Janeiro, Brazil
- 2002, Nov Follow-up Imaging for AAA Endograft Repair: CT vs Duplex Scan. VII Panamerican Congresson Vascular and Endovascular Surgery. Rio De Janeiro, Brazil
- 2002, Nov Current Status of Thoracic Endografts. VII Panamerican Congress on Vascular and Endovascular Surgery. Rio De Janeiro, Brazil
- 2003, Mar Current Treatment of AAA: Who Should Get an Endograft? Surgical and Radiological Endovascular Symposium SRES03. Varadero, Cuba
- 2003, Mar Carotid Endarterectomy: Eversion vs. Standard technique. Surgical and Radiological Endovascular Symposium SRES03 Varadero, Cuba
- 2003, May Complications of Vascular Interventions. IELC International Endovascular and Laparoscopic Congress. Quebec, Canada
- 2003, May Axillary Subclavian Vein thrombosis. Current Concepts, 4th Echo Doppler Congress. Marseille, France
- 2003, May Can Duplex Ultrasound replace CT scan for the follow-up of Endovascular Aneurysm Repair. 4th Echo Doppler Congress. Marseille, France
- 2003, Jul Aortic Endografts: The Good, The Bad and The Ugly. Japanese Vascular Society invited lecture. Kanazawa, Japan
- 2003, Sept AAA Sac Shrinkage after EVAR: A criterion of successful exclusion. European Society of Vascular Surgery. Dublin, Ireland
- 2004, Mar Gene Therapy Trials in Vascular Disease. Surgical and Radiological Endovascular Symposium

- 2004, Mar SRES 04. Cancun, Mexico  
Update on Endovascular Aneurysm repair. Surgical and Radiological Endovascular Symposium  
SRES 04. Cancun, Mexico
- 2004, Mar Results of the US Phase II trial of the Gore TAG Endoprosthesis. Guy's Hospital. London, UK
- 2004, Jun Should the threshold for intervention on AAA be lower in women? 11<sup>th</sup> International workshop of  
Endovascular surgery. Ajaccio, Corsica
- 2004, Jul What Constitutes High Risk for Endovascular Aneurysm Repair. E2B4. Verona, Italy
- 2004, Aug The GoreTAG endoprosthesis. Update on the US clinical trials. II Encontro de Cirurgia Vascular  
de Sao Paulo. Sao Paulo, Brazil
- 2004, Aug Carotid Stenting: Role in clinical practice. II Encontro de Cirurgia Vascular de Sao Paulo. Sao  
Paolo, Brazil
- 2004, Aug Aorto-Iliac Occlusive Disease: Limits of Endoluminal Therapy. II Encontro de Cirurgia Vascular  
de Sao Paulo. Sao Paulo, Brazil
- 2004, Aug Endovascular Aneurysm Repair: Current Status. II Encontro de Cirurgia Vascular de Sao Paulo.  
Sao Paolo, Brazil
- 2004, Sept Excluder Endovascular Graft. Update on the FDA clinical Trial. European Society of Vascular  
Surgery. Innsbruck, Austria
- 2004, Sept Excluder Endovascular Graft. Update on the FDA Clinical Trial. Italian Society of Vascular  
Surgery. Torino, Italy
- 2005, May Debate: Small AAA should be treated. Euro PCR. Paris, France
- 2005, May Results of the Gore Tag device trials. Euro PCR. Paris, France
- 2005, Jun New ultrasound criteria for evaluation of in-stent restenosis. Sardinia, Italy
- 2005, Jun Endovascular Repair is Better than Open Repair. A Debate. Sardinia, Italy
- 2005, Jun New Endograft technology from WL Gore. AIWES. Ajaccio, France
- 2005, Sept Thoracic Endografts. LC ACS meeting. Beirut, Lebanon
- 2005, Sept Carotid Artery Stenting: Technical Considerations. LC ACS meeting. Beirut, Lebanon
- 2005, Sept Carotid Artery Stenting: Clinical Considerations. LC ACS meeting. Beirut, Lebanon
- 2005, Dec Should CAS be used for calcified lesions? If so, how should the technique be modified?  
International Endovascular Symposium. Sydney, Australia
- 2005, Dec Should we use different designs for different anatomies of AAA? Which Graft is best?  
International Endovascular Symposium. Sydney, Australia
- 2005, Dec Are Filters or Balloon Occlusion Best for CAS? International Endovascular Symposium. Sydney,  
Australia
- 2005, Dec Which Aspects of Current Thoracic Endograft Technology Need to be improved? International  
Endovascular Symposium. Sydney, Australia
- 2006, Jan Gender Matters in Abdominal Aortic Aneurysms. CACVS. Paris, France
- 2006, Apr 5 year update of the Excluder comparative trial. Charing Cross. London, UK
- 2006, May Results of ICA stenting in the octogenarians. The 10<sup>th</sup> European Vascular Course EVC 2006.  
Amsterdam, Netherlands
- 2006, Jun What do we mean by high risk for AAA open repair. AIWES. Ajaccio, France
- 2006, Jun How to select endografts for AAA repair: Unibody vs Modular. MEET. Cannes, France
- 2006, Jun Results of EVAR are not device specific: A debate. MEET. Cannes, France
- 2006, Jun Carotid artery stenting. University of British Columbia. Vancouver, Canada
- 2006, Jun Thoracic Endografts: Current Status. Department of Surgery Grand Rounds. University of British  
Columbia. Vancouver, Canada
- 2006, Sept All you want to know about thoracic aneurysms in 10 minutes. European Society for Vascular  
Surgery. Prague, Czech Republic
- 2006, Oct Late Results of the Phase II trial of the TAG endograft. IVEC symposium. Milano, Italy
- 2006, Oct The significance and outcome of type II endoleaks. Sicilian Vascular Congress. Taormina, Italy
- 2006, Oct Management of carotid artery disease: What is the evidence? Sicilian Vascular Congress.



- Taormina, Italy
- 2006, Nov All you want to know about thoracic endografts in 10 minutes. Pan American Vascular Congress, Rio de Janeiro, Brazil
- 2006, Nov Chemoembolization of Hepatic Tumors. Pan American Vascular Congress. Rio de Janeiro, Brazil
- 2007, Jan Long Term Results of Thoracic Stent-Graft Procedures. Leipzig Interventional Course LINC meeting. Leipzig, Germany
- 2007, Mar Uncomplicated Acute Aortic Type B Dissection: Medical Management without TEVAR. SRES07 Costa De Sauipe. Bahia, Brazil
- 2007, May Endograft treatment of aortic aneurysms. The thoracic and abdominal aorta. Opening lecture of the combined meeting of the Swedish Society for Vascular Surgery and the Seldinger Swedish Society for Interventional Radiology. Goteborg, Sweden
- 2007, May Carotid Artery Stenting: Did the Trials Change our Policy? The 11<sup>th</sup> European Vascular Course EVC 2007. Marseille, France
- 2007, Oct Debate: Against the motion. Vascular surgeons should all become proficient in open, endovascular, laparoscopic and medical treatments. IVEC/ISVS meeting. Milan, Italy
- 2007, Oct Endovascular repair should be the new gold standard in the treatment of traumatic aortic transection. IVEC/ISVS meeting. Milan, Italy
- 2007, Oct Is it time to define a high risk category for carotid artery stenting? IVEC/ISVS meeting. Milan, Italy
- 2007, Oct Treatment of the symptomatic carotid artery by stenting comes with an increased risk. The results of two European randomized trials. The Royal Society of Medicine. London, UK
- 2007, Nov Endovascular repair should be the new gold standard in the treatment of traumatic aortic transection  
The first EndoPan meeting. Rio De Janeiro, Brazil
- 2007, Nov The late results of the TAG endograft. The first EndoPan meeting. Rio De Janeiro, Brazil
- 2007, Nov Endo treatment of endoleaks after EVAR. The first EndoPan meeting. Rio De Janeiro, Brazil
- 2008, Mar The role of CAS in the treatment of carotid artery stenosis: Only Occasionally. SRES08. Tulum, Mexico
- 2008, Mar Men are from Mars and Women are from Venus: A vascular surgeon's perspective. SRES08. Tulum, Mexico
- 2008, Mar Endovascular treatment of thoracic aortic transection should be the new gold standard. SRES08. Tulum, Mexico
- 2008, May Endovascular treatment of thoracic aortic transection should be the new gold standard. Thoracic Masterclass. London, England
- 2008, Sept Can Carotid Endarterectomy and Carotid Artery Stenting Coexist? Invited Guest Lecture to the Canadian Vascular Society. Saskatoon CA
- 2008, Oct Carotid Lesions not amenable to CAS and technical tips to achieve optimal CAS results. 1<sup>st</sup> Endolive Meeting. X PanAmerican Congress on Vascular and Endovascular Surgery. Rio de Janeiro, Brazil
- 2008, Oct Carotid Stenting vs Endarterectomy: In Favor of Endarterectomy! X PanAmerican Congress on Vascular and Endovascular Surgery. Rio de Janeiro, Brazil
- 2008, Oct Thoracic Endografts for Trauma should be the Gold Standard. X PanAmerican Congress on Vascular and Endovascular Surgery. Rio de Janeiro, Brazil
- 2008, Dec Carotid Endarterectomy: Routine shunting, selective shunting or local anesthesia: Perspective west. 2008 New Horizons in Cardiovascular Treatment. Shanghai, China
- 2008, Dec Carotid artery stenting. Embolic protection options: Pros and cons. 2008 New Horizons in Cardiovascular Treatment. Shanghai, China
- 2009, Jan Surveillance following EVAR-Is the current sequence of surveillance obsolete? CACVS 2009. Paris, France
- 2009, Mar Fenestrated endografts. SRES09. St Martin, France

- 2009, Mar The vascular educational system in the US. SRES09. St Martin, France
- 2009, Apr EVAR follow-up should include a switch to duplex ultrasound at one year. 33rd Charing Cross Symposium, Imperial College. London, UK
- 2009, May TEVAR is the first choice for aortic blunt trauma, but some limitations remain. 8th International Symposium on Endovascular Therapeutics. SITE. Barcelona, Spain
- 2009, May Update on the CREST trial. 8th International Symposium on Endovascular Therapeutics. SITE. Barcelona, Spain
- 2009, May Stent Grafts for the “Shaggy Aorta.” Thoracic Masterclass 2009. Guy’s Hospital. London, UK
- 2009, May Endovascular treatment of trauma and false aneurysms. Thoracic Masterclass 2009. Guy’s Hospital. London, UK
- 2009, Jun A Balanced View on Carotid Debates. 13<sup>th</sup> International Symposium on Critical Issues in Endovascular Treatment and More. Assisi, Italy
- 2009, Jun Endurant, The New Generation of Endograft. 13<sup>th</sup> International Symposium on Critical Issues in Endovascular Treatment and More. Assisi, Italy
- 2009, Sept The Current and Future Role for Thoracic Endografts in the Thoracic Aorta. International Endovascular Symposium. Sydney, Australia
- 2009, Oct Ultrasound Criteria for In-Stent Restenosis. The Australia and New Zealand Vascular Society Annual Meeting. Sydney, Australia
- 2009, Oct Ultrasound Replacing CT for EVAR Follow-up. The Australia and New Zealand Vascular Society Annual Meeting. Sydney, Australia
- 2009, Oct TEVAR is the Gold Standard for Traumatic Thoracic Transection. The Australia and New Zealand Vascular Society Annual Meeting. Sydney, Australia
- 2009, Oct Which Carotid Stenoses are Best Suited for CAS? The Australia and New Zealand Vascular Society Annual Meeting. Sydney, Australia
- 2009, Nov Endovascular Repair of Abdominal Aneurysms. The Society of Vascular Surgery of Great Britain and Ireland. Liverpool, UK
- 2010, Jan Should we Treat Type I Endoleaks? Definitely, Type I Endoleaks Must be Treated. Controversies and Updates in Vascular Surgery. Paris, France
- 2010, Jan Rupture after EVAR: A complicated event. Controversies and Updates in Vascular Surgery. Paris, France
- 2010, Apr Management of Complications during Endovascular Aneurysm Repair. SRES. Marseille, France
- 2010, Apr Endovascular is the treatment of choice for traumatic aortic transection. 34<sup>th</sup> Charing Cross Symposium, London. UK2010 Apr Infrarenal EVAR in Challenging Anatomy: The UPMC Experience. 34<sup>th</sup> Charing Cross Symposium. London, UK
- 2010, Apr TEVAR: Current Status. 43<sup>rd</sup> Middle East Medical Assembly. Beirut, Lebanon
- 2010, Apr Endovascular management of thoracic aortic dissection. 43<sup>rd</sup> Middle East Medical Assembly. Beirut, Lebanon
- 2010, Apr Hybrid procedures for arch and thoracoabdominal aneurysms. 43<sup>rd</sup> Middle East Medical Assembly. Beirut, Lebanon
- 2010, Apr EVAR current practices. 43<sup>rd</sup> Middle East Medical Assembly. Beirut, Lebanon
- 2010, Apr New training paradigm for vascular surgery training in the US. 43<sup>rd</sup> Middle East Medical Assembly. Beirut, Lebanon
- 2010, Apr Carotid Artery Stenting vs Carotid Endarterectomy. 43<sup>rd</sup> Middle East Medical Assembly. Beirut, Lebanon
- 2010, May The Use of TEVAR for Aortic Transection. Aortic Summit. Vienna, Austria
- 2010, Sept Dissection of the Abdominal Aorta. Thoracic Aortic Master Class 2010. Guy’s Hospital. London, UK
- 2010, Oct The Endurant Stent Graft System: Results of the U.S. Regulatory Pivotal Study. Endurant International Education Summit. Milan, Italy
- 2011, Jan Pushing the Limits on Aortic Repair - The American Trials. CACVS Congress: Controversies and

- 2011, Mar Updates in Vascular Surgery 2011. Paris, France
- 2011, Mar EVAR Results Justify Its Preferential Use Over Open Repair. 5<sup>th</sup> Gulf Vascular Society Conference. Dubai, UAE
- 2011, Mar The Use of Thoracic Endografts for Non-Aneurysmal Applications. 5<sup>th</sup> Gulf Vascular Society Conference. Dubai, UAE
- 2011, Mar Carotid Endarterectomy Remains the Best Choice for Carotid Artery Stenosis. 5<sup>th</sup> Gulf Vascular Society Conference. Dubai, UAE
- 2011, Apr Carotid Stenosis: Arterial and Cerebral Imagery Before and During Intervention. Surgical and Radiological Endovascular Symposium (SRES) 2011. Fort de France, Martinique
- 2011, Apr Supra-Aortic Trunks. Surgical and Radiological Endovascular Symposium (SRES) 2011. Fort de France, Martinique
- 2011, Apr Endovascular Treatment of Aneurysms of the Thoracic Aorta: Prospects for Expanding Indications. Surgical and Radiological Endovascular Symposium (SRES) 2011. Fort de France, Martinique
- 2011, Apr Abdominal Aortic Aneurysms. Surgical and Radiological Endovascular Symposium (SRES) 2011. Fort de France, Martinique
- 2011, May Desired Improvements for EVAR Devices. 9<sup>th</sup> International Symposium on Endovascular Therapeutics (SITE 2011). Barcelona, Spain
- 2011, May Does Thoracic Endografting Still Remain the First Option for Acute Trauma? 9<sup>th</sup> International Symposium on Endovascular Therapeutics (SITE 2011). Barcelona, Spain
- 2011, May Predictors of Morbidity & Mortality on TEVAR. 9<sup>th</sup> International Symposium on Endovascular Therapeutics (SITE 2011). Barcelona, Spain
- 2011, Sept Mastering Endovascular Skills. 25<sup>th</sup> Annual Meeting of the European Society for Vascular Surgery (ESVS). Athens, Greece
- 2012, Jan Occluded Aorto-Iliac Artery: Pro the Endovascular. CACVS Congress: Controversies and Updates in Vascular Surgery 2012. Paris, France
- 2012, Jan Society for Vascular Surgery Update on Carotid Guidelines. LINC 2012: Leipzig Interventional Course 2012. Leipzig, Germany
- 2012, Jan Scrub in with the Experts: EVAR of TAAA. LINC 2012: Leipzig Interventional Course 2012. Leipzig, Germany
- 2012, Jan Building a Body of Evidence for Next Generation Devices: 2-Year Results from Endurant US Trial. LINC 2012: Leipzig Interventional Course 2012. Leipzig, Germany
- 2012, Apr Endoleak Type 1 – AAA. Surgical and Radiological Endovascular Symposium (SRES) 2012. Marseille, France
- 2012, Apr FLASH 3: Carotid Stenting – Technical News. Surgical and Radiological Endovascular Symposium (SRES) 2012. Marseille, France
- 2012, Apr Treatment of AAA: Results of Random Studies. Surgical and Radiological Endovascular Symposium (SRES) 2012. Marseille, France
- 2012, Apr Debate: FOR THE MOTION - Vascular Surgery Does Not Need Training in General Surgery First. 36<sup>th</sup> Charing Cross Symposium, Vascular and Endovascular Controversies Update. London, UK
- 2012, Apr Chairman Thoracic Workshop - Learning by sharing: Interactive case presentations for the endovascular treatment of the thoracic aorta. 36<sup>th</sup> Charing Cross Symposium, Vascular and Endovascular Controversies Update. London, UK
- 2012, Apr Consistently Successful Patient Outcomes: Confidence Continued w/ Endurant. 35<sup>th</sup> Charing Cross Symposium, Vascular and Endovascular Controversies Update. London, UK
- 2012, Apr Great Debate: AGAINST MOTION - CREST is telling us to swing towards carotid stenting. Should we? 36<sup>th</sup> Charing Cross Symposium, Vascular and Endovascular Controversies Update. London, UK
- 2012, Apr How often are thoracic and abdominal aortic aneurysms found in the same patient?. 35<sup>th</sup> Charing Cross Symposium, Vascular and Endovascular Controversies Update. London, UK
- 2012, Sept Endovascular Graft Treatment of Acute Uncomplicated Type-B Aortic Dissection. European

- Society for Vascular Surgery Annual Meeting, Bologna, Italy
- 2012, Nov Fenestrated Endografts: Are the Techniques Safe Enough and the Results Good Enough to Persevere? XII Pan American Congress on Vascular and Endovascular Surgery. Rio de Janeiro, Brazil
- 2012, Nov Endovascular Management of Embolizing Lesions of the Aorta. XII Pan American Congress on Vascular and Endovascular Surgery. Rio de Janeiro, Brazil
- 2012, Nov Can Chronic Dissection Respond Well to Endovascular Management? XII Pan American Congress on Vascular and Endovascular Surgery. Rio de Janeiro, Brazil
- 2012, Nov New Insights into Latest Generation EVAR Device Performance: Endurant Midterm Results. XII Panamerican Congress on Vascular and Endovascular Surgery. Rio de Janeiro, Brazil
- 2012, Dec Coiling of Type II Endoleaks After EVAR. 5<sup>th</sup> International Congress on Aortic Surgery and Anesthesia. Milan, Italy
- 2012, Dec Predictors of SCI After TEVAR. 5<sup>th</sup> International Congress on Aortic Surgery and Anesthesia. Milan, Italy
- 2012, Dec Endovascular Repair of Ruptured AAA Does Not Confer Survival Benefits Over Open Repair. 5<sup>th</sup> International Congress on Aortic Surgery and Anesthesia. Milan, Italy
- 2013, Jan Carotid Stenting or Carotid Endarterectomy: CREST Puts Stenting Ahead – You Must Be Joking! LINC 2013: Leipzig Interventional Course 2013. Leipzig, Germany
- 2013, Jan Chimney, Snorkel, Sandwich, Periscope Grafts are Second Best Every Time – Against the Motion. LINC 2013: Leipzig Interventional Course 2013. Leipzig, Germany
- 2013, Jan EVAR with Low-Profile Devices – The Future? LINC 2013: Leipzig Interventional Course 2013. Leipzig, Germany
- 2013, Apr Long-term outcomes of endovascular popliteal aneurysm treatment are similar to open repair. 35<sup>th</sup> Charing Cross Symposium, Vascular and Endovascular Challenges Update. London, UK
- 2013, Apr Does hostile neck anatomy preclude successful endovascular aortic aneurysm repair? 35<sup>th</sup> Charing Cross Symposium, Vascular and Endovascular Challenges Update. London, UK
- 2013, May Controversy: Is endovascular repair of popliteal artery aneurysm durable enough? The U.S. Experience. 11th International Symposium on Endovascular Therapeutics (SITE 2013). Barcelona, Spain
- 2013, May Endovascular intervention for lower limb ischemia in the young patient: Is it a good strategy? 11th International Symposium on Endovascular Therapeutics (SITE 2013). Barcelona, Spain
- 2013, May Clinical Case Presentation: Asymptomatic Stenosis for Older Patients. Surgical and Radiological Endovascular Symposium (SRES 2013). Marseille, France
- 2013, May FLASH Presentation: Carotid ATP: Why This Stent and This Protection?. Surgical and Radiological Endovascular Symposium (SRES 2013). Marseille, France
- 2013, Oct Management of endoleaks after EVAR. Asian Society for Vascular Surgery. Istanbul, Turkey
- 2013, Oct The Expanding Clinical Applications for TEVAR. Asian Society for vascular Surgery. Istanbul, Turkey
- 2013, Oct Two Decades of EVAR in the US. Keynote address. Asian Society for Vascular Surgery. Istanbul, Turkey
- 2014, Jan Experience with the INCRAFT AAA Stent-Graft System during the INSPIRATION Trial. CACVS Congress: Controversies and Updates in Vascular Surgery 2014. Paris, France
- 2014, Jan Uncomplicated asymptomatic type B aortic dissection is not benign: Are there predictors for early endovascular treatment? LINC 2014: Leipzig Interventional Course 2014. Leipzig, Germany
- 2014, Jan Iliac aneurysms are prevalent in up to 40% of AAA patients: Is there a need to preserve the internal iliac artery? LINC 2014: Leipzig Interventional Course 2014. Leipzig, Germany
- 2014, Mar EVAR is the Best. Indovasc Symposium. Bangalore, India
- 2014, Mar EVAR with Lower Profile: What is the Future and What Concerns Should We Have? Indovasc Symposium. Bangalore, India
- 2014, Mar EVAR is no better than open repair for rAAA. Indovasc Symposium. Bangalore, India

- 2014, Mar CFA Stenosis is Best Managed Surgically. Indovasc Symposium. Bangalore, India
- 2014, Apr CX Innovation Showcase: Tag Branched Endograft. 36<sup>th</sup> Charing Cross Symposium, Vascular and Endovascular Controversies Update. London, UK
- 2014, Apr Thoracic Consensus Update: The Infra-renal/Supra-renal Fixation Controversy. 36<sup>th</sup> Charing Cross Symposium, Vascular and Endovascular Controversies Update. London, UK
- 2014, Apr Abdominal Aortic Consensus Update – Outcomes of Aneurysm Repair in Patients with Renal Disease. 36<sup>th</sup> Charing Cross Symposium, Vascular and Endovascular Controversies Update. London, UK
- 2014, May EVAR – EF Type 1. Surgical and Radiological Endovascular Symposium (SRES 2014). Marseille, France
- 2014, May Degenerative AATD: TEVAR Monitoring or Decision Criteria. Surgical and Radiological Endovascular Symposium (SRES 2014). Marseille, France
- 2014, Jun Acute Non-Complicated TBD Do Not Need TEVAR Treatment. 18<sup>th</sup> International Expert Symposium on Critical Issues in Aortic Endografting 2014 (Critical Issues 2014). Malmö, Sweden
- 2014, Oct Development of Vascular Surgery Training in the U.S. World Federation of Vascular Societies (WFVS) Congress 2014. Stellenbosch, South Africa
- 2014, Oct Should uncomplicated type B dissection be treated prophylactically by TEVAR?. XIV Pan American Congress on Vascular and Endovascular Surgery. Rio de Janeiro, Brazil
- 2014, Oct Beyond immediate success: guidelines for a long lasting EVAR procedure. XIV Pan American Congress on Vascular and Endovascular Surgery. Rio de Janeiro, Brazil
- 2014, Oct Choosing the most appropriate device for EVAR for different anatomic challenges. XIV Pan American Congress on Vascular and Endovascular Surgery. Rio de Janeiro, Brazil
- 2014, Oct The Gore thoracic single branched graft: Early results. XIV Pan American Congress on Vascular and Endovascular Surgery. Rio de Janeiro, Brazil
- 2014, Oct Update on the Endurant Aorto-uniiliac device. XIV Pan American Congress on Vascular and Endovascular Surgery. Rio de Janeiro, Brazil
- 2014, Dec When to Treat Type II Endoleaks. 6<sup>th</sup> International Congress on Aortic Surgery and Anesthesia. Milan, Italy
- 2014, Dec EVAR Should be Offered to Selected Patients with Ruptured AAA. 6<sup>th</sup> International Congress on Aortic Surgery and Anesthesia. Milan, Italy
- 2014, Dec Endorepair of Embolizing Lesions of the Aorta. 6<sup>th</sup> International Congress on Aortic Surgery and Anesthesia. Milan, Italy
- 2015, Jan TEVAR for Embolizing Lesions of the Aorta. CACVS Congress: Controversies and Updates in Vascular Surgery 2015. Paris, France
- 2015, Jan Flash presentation: Featured research: INCRAFT: Update on the INSPIRATION Pivotal Study. LINC 2015: Leipzig Interventional Course 2015. Leipzig, Germany.
- 2015, Jan One year results with the Gore EXCLUDER® iliac branch endoprosthesis. LINC 2015: Leipzig Interventional Course 2015. Leipzig, Germany
- 2015, Jan TEVAR for embolizing lesions of the aorta. LINC 2015: Leipzig Interventional Course 2015. Leipzig, Germany
- 2015, Jan The ongoing need to establish proof of benefit from intervention for uncomplicated Type B aortic dissection. LINC 2015: Leipzig Interventional Course 2015. Leipzig, Germany
- 2015, Mar Choosing the Correct Treatment for Acute Type-B Dissection. European Vascular Course 2015. Maastricht, The Netherlands
- 2015, Apr Endovascular Indications for Embolizing Aortic Lesions. 37<sup>th</sup> Charing Cross Symposium, Vascular and Endovascular Controversies Update. London, UK
- 2015, May Technical Developments for Aortic Stents: Prospects for the Future. Surgical and Radiological Endovascular Symposium (SRES 2015). Marseille, France
- 2015, Dec Evolution of Endografts for EVAR. International Congress of Innovation (ICI 2015). Tel Aviv, Israel

- 2015, Dec Durability of Endurant Stent Graft through 5 years International Congress of Innovation (ICI 2015). Tel Aviv, Israel
- 2016, Jan Use of a single-branch thoracic endograft in the arch: Early experience. CACVS 2016: Controversies & Updates in Vascular Surgery. Paris, France
- 2016, Jan The long-term clinical performance of the enduring stent graft from controlled trials to real world use. CACVS 2016: Controversies & Updates in Vascular Surgery. Paris, France
- 2016, Jan 5-year results of a new generation device. CACVS 2016: Controversies & Updates in Vascular Surgery. Paris, France
- 2016, Apr Type II endoleaks with enlarging aneurysm imply type I endoleak until disproved. CX: Charing Cross Symposium 2016. London, UK
- 2016, Apr Single branch zone 0. CX: Charing Cross Symposium 2016. London, UK
- 2016, Apr Excluder iliac branch endoprosthesis. CX: Charing Cross Symposium 2016. London, UK
- 2016, May Innovative techniques of exclusion of the aneurysmal sac associated with stent-graft. SRES 2016: Surgical & Radiological Endovascular Symposium. Marseilles, France
- 2016, Oct Early results of a single branch device for arch aneurysms. XIV Pan American Congress. Rio de Janeiro, Brazil
- 2016, Oct Current use of endovascular repair for popliteal artery aneurysms. XIV Pan American Congress. Rio de Janeiro, Brazil
- 2016, Oct Evolution of Endografts. XIV Pan American Congress. Rio de Janeiro, Brazil
- 2016, Oct Long-term result of the Endurant graft. XIV Pan American Congress. Rio de Janeiro, Brazil
- 2016, Oct Aneurysm enlargement with type II endoleak may be due to an unrecognized type I or III endoleak. XIV Pan American Congress. Rio de Janeiro, Brazil
- 2016, Oct Use of iliac branch grafts to save the internal iliac artery flow: Techniques and results. XIV Pan American Congress. Rio de Janeiro, Brazil
- 2016, Dec Current use of endo repair for popliteal aneurysms (PAA). 6th Munich Vascular Conference. Munich, Germany
- 2016, Dec Early experience with single branch device for the arch. 6th Munich Vascular Conference. Munich, Germany
- 2016, Dec Prevalence and natural history of type II endoleaks – or: do we still misjudge a potentially dangerous condition? Keynote presentation, 6th Munich Vascular Conference. Munich, Germany
- 2017, Jan Open repair remains the best treatment. CACVS 2017: Controversies & Updates in Vascular Surgery. Paris, France
- 2017, May Late aneurysmal development upstream of an aortic prosthesis: What treatment to recommend?). Surgical and Radiological Endovascular Symposium (SRES 2017). Ajaccio, France
- 2017, May Carotid Dissection. Surgical and Radiological Endovascular Symposium (SRES 2017). Ajaccio, France
- 2017, July Single-branch devices for the aortic arch. East Meets West Congress 2017. Sibiu, Romania.
- 2017, July Gore Multibranched Tambe Off-The-Shelf (OTS) Device For Treating TAAAs: Technique And Early Experience. East Meets West Conference 2017. Sibiu, Romania
- 2017, July Follow-up of EVAR patients with duplex ultrasound is safe. East Meets West Conference 2017. Sibiu, Romania
- 2017, July Sac enlargement with type II endoleaks often reflects presence of an occult type I or type III endoleak. East Meets West Conference 2017. Sibiu, Romania
- 2017, Sept Debate: Type II Endoleak After EVAR Without Expansion of the Aneurysm is Harmless and Should Not Be Treated. European Society for Vascular Surgery. Lyon, France
- 2017, Oct Endografts: past, present and future. Journées Françaises de Radiologie. Paris, France
- 2017, Nov AAA and Embolization: EVAR device evolution over 25 years. China Endovascular Course (CEC). Beijing, China
- 2017, Nov AAA and Embolization: Type II endoleaks with sac enlargement may be associated with Type I or III endoleaks. China Endovascular Course (CEC). Beijing, China

- 2017, Nov Focus on thoracic aorta: Multibranched TAMBE off the shelf device for treating TAAA: Technique and early experience. China Endovascular Course (CEC). China Endovascular. Beijing, China
- 2018, Jan Introducing innovative solutions for the treatment of aortic disease. LINC 2018. Leipzig, Germany
- 2018, Jan New horizon in endovascular care: early experience with an innovative thoracic branched device. LINC 2018. Leipzig, Germany
- 2018, Jan Technique and early experience of a multibranched Off-The-Shelf (OTS) device for treating TAAAs. LINC 2018. Leipzig, Germany
- 2018, Sept The Cost of Being a Vascular Surgeon (Workforce Issues in Vascular Surgery. Effects of Burnout). ESVS 32<sup>nd</sup> Annual Meeting. Valencia, Spain
- 2018, Sept Vascular Surgery Training in the USA. ESVS 32<sup>nd</sup> Annual Meeting. Valencia, Spain
- 2018, Sept Carotid trials and how they affect our practice. ESVS 32<sup>nd</sup> Annual Meeting. Valencia, Spain
- 2018, Oct Open Conversion for Failed EVAR - Increasing Need and Different Strategies. XV Panamerican Congress on Vascular and Endovascular Surgery. Rio de Janeiro, Brazil.
- 2018, Oct Thrombolysis for Pulmonary Embolism With and Without EKOS Catheter: Does it Matter? XV Panamerican Congress on Vascular and Endovascular Surgery. Rio de Janeiro, Brazil.
- 2018, Oct Early Feasibility of an Off-The-Shelf Thoraco-Abdominal Device for TAAA. XV Panamerican Congress on Vascular and Endovascular Surgery. Rio de Janeiro, Brazil.
- 2018, Oct Chimney, fenestrated or branched stent graft for the aortic arch aneurysm, which is the future? International Union of Angiology. Beijing, China.
- 2018, Dec Update on a single branch device for the aortic arch. WFVS 2018. Montevideo, Uruguay.
- 2018, Dec Expanding sac with type II endoleak may hide an occult Type I or Type III endoleak. WFVS 2018. Montevideo, Uruguay.
- 2018, Dec Open Conversion for Failed EVAR. 8<sup>th</sup> International Congress - How to Do It (HTDI) Aortic Surgery Peripheral & Venous. Milan, Italy.
- 2019, Apr Open conversion of endovascular failures. CX: 41<sup>st</sup> Charing Cross Symposium 2019. London, UK
- 2019, Apr Global recruitment into the Vascular Specialty: The US perspective. CX: 41<sup>st</sup> Charing Cross Symposium 2019. London, UK
- 2019, Apr CX Debate: The vast majority of failed EVARs can be treated endovascularly - Against the motion. CX: 41<sup>st</sup> Charing Cross Symposium 2019. London, UK

## RESEARCH

### Funded Projects

#### VA Cooperative Studies Programs

- 1986 - 1989 Principal Investigator, VA Cooperative Study #**141**, Pittsburgh Station  
Title: Efficacy of Vascular Bypass Graft Material in Lower Extremity  
Revascularization  
Amount: \$105,000 for 3 years
- 1988 - 1991 Principal Investigator, VA Cooperative Study #**309**, Pittsburgh Station  
Title: The Role of Carotid Endarterectomy in Preventing Stroke From Symptomatic  
Carotid Stenosis  
Amount: \$150,000 for 3 years
- 1991 - 1997 Principal Investigator, VA Cooperative Study #**362**, Pittsburgh Station  
Title: Role of Warfarin in Vascular Bypass Surgery  
Amount: \$300,000 for 6 years
- 1991 - 1994 Co-Investigator, VA Cooperative Study #**344A**, Pittsburgh Station  
Title: Implantable Insulin Pump Study (Surgeon responsible for implantations)
- 1995 - 2000 Principal Investigator, VA Cooperative Study #**417**, Pittsburgh Station  
Title: The Natural History of Large Abdominal Aortic Aneurysms Study  
Amount: \$5,000
- 1992 - 1999 Principal Investigator, VA Cooperative Study #**379**, Pittsburgh Station  
Title: Aneurysm Detection and Management Study; ADAM Trial  
Amount: \$560,000 for 7 years

#### NIH and Government Grants

- 1997-1998 Co-Investigator #**R03-AG-15250**  
Title: Impact of Early Hospital Discharge in the Aged  
Amount: \$32,400 Source: National Institutes of Health
- 2000-2005 Cardiovascular Gene Therapy Center #**U01-HL-66948-02** (Glorioso)  
Clinical Project: iNOS Gene Therapy to Prevent AV Graft Intimal  
Hyperplasia (Tzeng)  
Amount : \$141,159 Source: NIH/NHLBI Effort: 5% Salary: 0%
- 2002-2004 Principal Investigator, Pittsburgh Center  
Title: Ultrasound screening for Abdominal Aortic Aneurysms  
Amount: \$119,000  
Source: **CMS grant**, Subcontract through Dartmouth University
- 2001-2006 Co-Investigator # **1R01-HL L60670-01A2** (Vorp)  
Title: Biomechanical Evaluation of Abdominal Aortic Aneurysm  
Amount: \$1,358,776 Source: NIH/NHLBI Effort: 5% Salary: 0%
- 2005-2008 Co-Investigator.  
Title: Carotid Revascularization Endarterectomy vs Stent Trial (CREST)
- 2005-2009 Co-Investigator # **R01-HL-79313** (Vorp)  
Title: Bioengineering & Biologic Studies of Aneurysm Weakening  
Amount: \$250,000 Source: NIH/NHLBI Effort: 5% Salary: 0%
- 2005-2008 Co-Investigator, Pittsburgh Center **CREST** Trial  
Title: Carotid Revascularization Endarterectomy vs. Stenting Trial  
Amount: \$ 60,000 Source: National Institute of Health



Investigator Sponsored IDE's

2003-2005 Principle Investigator  
Title: A Randomized Trial of Carotid Artery Stenting with and without Cerebral Protection  
IDE#: G030056  
Support: Internal Funds

Industry Sponsored Grants

1991-1992 Principal Investigator, **GHBA Trial #309**, Pittsburgh Center  
Title: A Randomized, Double-Blind, Multicenter, Placebo-Controlled, Parallel Group Study to Evaluate the Safety and Efficacy of Daily Intravenous Infusions of Prostavasin Administered Over a 28-Day Treatment Period in Patients with Severe Peripheral Arterial Occlusive Disease (PAOD)  
Amount: \$40,500 Source: Schwarz-Pharma

1992-1993 Principal Investigator, **GHBA Trial #308**, Pittsburgh Center  
Title: A Randomized, Double-Blind, Multicenter, Placebo-Controlled, Parallel Group Study to Evaluate the Effect of Two Doses of Prostavasin on Indicators of the Adequacy of Microcirculation in Patients with Severe Peripheral Arterial Occlusive Disease (PAOD)  
Amount: \$25,200 Source: Schwarz-Pharma

1992-1993 Principal Investigator, **GHBA Trial #315**, Pittsburgh Center  
Title: An Open-Label Multicenter Study to Evaluate the Safety and Efficacy of 28 Intravenous Infusions of Vasoprost (Alprostadil) Administered to Patients with Severe Peripheral Arterial Occlusive Disease (PAOD)  
Amount: \$90,618 Source: Schwarz-Pharma

1993-1995 Principal Investigator, **TOPAS Trial**, Pittsburgh Center  
Title: Recombinant Urokinase (rUK, Abbott-76120) Versus Operative Intervention as Initial Therapy for Acute Lower-Limb Arterial Occlusion (Phase 2)  
Amount: \$36,240 Source: Abbott Laboratories

1994-1996 Principal Investigator, Pittsburgh Center, **Lipo-PGE1**  
Title: A Double-Blind, Randomized, Parallel Group, Placebo Controlled, Dose Response Study to Evaluate the Safety and Efficacy of Intravenous Lipo-PGE1 Therapy in Patients with Ischemic Ulcers Due to Peripheral Vascular Disease  
Amount: \$36,850 Source: Alpha One Therapeutics

1994-1995 Principal Investigator, Pittsburgh Center, **MSI-78**  
Title: A Study of the Comparative Efficacy of MSI-78 Topical Cream vs Oral Ofloxacin in the Treatment of Infected Diabetic Ulcers  
Amount: \$4,000 Source: Magainin Pharmaceuticals Inc.

1995-2001 Principal Investigator, **EnACT-T**, Pittsburgh Center  
Title: A Clinical Trial of the Endovascular Grafting System (EGS) as Compared to the Standard Surgical Procedure in the Treatment of Abdominal Aortic Aneurysm (AAA)  
Amount: \$200,000 Source: Endovascular Technologies Inc.

1996-1997 Principal Investigator, Pittsburgh VA Center, **Oral Iloprost**  
Title: A Randomized, Double-Blind, Placebo Controlled, Dose Response, Efficacy

- and Safety Study of Oral Iloprost Administered for 6 Months in Severe Peripheral Vascular Disease (PAOD) Fontaine Stage III and IV
- 1996-2001 Amount: \$68,000 Source: Berlex Laboratories  
Principal Investigator, **EnACT-B**, Pittsburgh Center  
Title: A Clinical Study of the Bifurcated EGS System as Compared to the Standard Surgical Procedure in the Treatment of Abdominal Aortic Aneurysms (AAA)
- 1997-1998 Amount: \$600,000 Source: Endovascular Technologies Inc.  
Principal Investigator, Pittsburgh VA, **Cilostazol**.  
Title: A Randomized, Double Blind Study of the Effects of Cilostazol Versus Pentoxifylline or Placebo in Patients with Intermittent Claudication Secondary to Peripheral Vascular Disease
- 1997-2001 Amount: \$63,000 Source: Otsuka America Pharmaceutical Inc.  
Principal Investigator, Pittsburgh Center, **EnACT-A**  
Title: Endovascular Aneurysm Clinical Trial - Aortoiliac. A Clinical Study of the Aortoiliac Endovascular Grafting System (Aortoiliac EGS) as Compared to the Standard Surgical Procedure in the Treatment of Abdominal Aortic Aneurysm (AAA)
- 1997-1998 Amount: \$120,000 Source: Endovascular Technologies Inc.  
Principal Investigator, Pittsburgh, **CEG**  
Title: A Prospective Randomized Comparison of Percutaneous Transluminal Angioplasty (PTA) With or Without the Corvita Endoluminal Vascular Graft (CEG) Used as Immediate (Primary) or Late (Suboptimal PTA) Adjunctive Therapy for the Treatment of Iliac Artery Occlusive Disease
- 1997-1998 Amount: \$15,000 Source: Corvita Corporation  
Principal Investigator, **PURPOSE** Pittsburgh Center  
Title: A Phase II Dose-Ranging Trial of Intra-arterial Recombinant Pro-urokinase (ABT-187) vs Urokinase (ABT-790) in the Treatment of Peripheral Arterial Thromboembolic Occlusions, M97-642
- 1997-1998 Amount: \$30,000 Source: Abbott Laboratories  
Principal Investigator, Pittsburgh VA, **Cilostazol**.  
Title: An Open Study of the Chronic Administration of Cilostazol (OPC-13013) in Patients with Intermittent Claudication Secondary to Chronic Occlusive Arterial Disease
- 1998-1999 Amount: \$10,000 Source: Otsuka America Pharmaceutical Inc.  
Principal Investigator, UPMC Center, **Iloprost**  
Title: A Randomized, Double-Blind, Placebo-Controlled, Dose Response, Efficacy and Safety Study of Iloprost Clathrate Extended-Release Capsules in Patients with Peripheral Arterial Occlusive Disease (PAOD) (Fontaine Stage II)
- 1998-2001 Amount: \$60,000 Source: Berlex Laboratories  
Principal Investigator, Pittsburgh Center, **Ancure extended indications**  
Title: Clinical Study of the Ancure Tube and Bifurcated Systems: Extended Indications Evaluation
- 1998-1999 Amount: \$300,000 Source: Guidant Corporation  
Principal Investigator, Pittsburgh Center, **EXCLUDER**  
Title: A Clinical Study Comparing Use of the Bifurcated EXCLUDER Endovascular Prosthesis to Open Surgical Repair in the Treatment of

- Infrarenal Abdominal Aortic Aneurysms (AAA)
- 1998-2000  
Amount: \$120,000 Source: WL Gore and Associates  
Co-Investigator, Pittsburgh Center, **VEGF**  
Title: A Phase I Study of Direct Administration of a Replication Deficient Adenovirus Vector (AdgvVEGF121.10) Containing the VEGF121cDNA to the Ischemic Limb of Individuals With Peripheral Vascular Disease”
- 1999-2000  
Amount: \$350,000 Source: Parke-Davis  
Principal Investigator, Pittsburgh Center, **Cilostazol**  
Title: A Twenty four Week, Randomized, Double Blind Study of the Effects of Pletal (Cilostazol) versus Trental (Pentoxifylline) and Placebo Administered Orally to Patients with Intermittent Claudication Secondary to Peripheral Arterial Disease.
- 1990-2000  
Amount: \$150,000 Source: Otsuka America Corp.  
Co-Principal Investigator, Pittsburgh Center, **TAG**  
Title: A Clinical Study Comparing Use of the Thoracic EXCLUDER Endoprosthesis to Open Surgical Repair in the Primary Treatment of Descending Thoracic Aneurysms
- 1999-2000  
Amount: \$120,000 Source: WL Gore and Associates  
Principal Investigator, Pittsburgh Center, **OPC-28326**  
Title: A Twelve-Week, Randomized, Double Blind, Multicenter Study of the Safety and Efficacy of Three Oral Doses of OPC-28326 versus Placebo Tablets in Patients with Intermittent Claudication Secondary to Peripheral Arterial Disease.
- 1999-2001  
Amount: \$ 105,000 Source: Otsuka America Corp.  
Co-Investigator, Pittsburgh Center, **MS-325 enhanced MRA**  
Title: A Multicenter, Comparative, Two-Arm, 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 or Aortic Aneurysm
- 1999-2004  
Amount: \$30,000 Source: EPIX Medical, Inc.  
Principal Investigator, Pittsburgh Center, **Excluder IIc**  
Title: A Clinical Study Comparing Use of the Modified Bifurcated EXCLUDER Endovascular Prosthesis to Open Surgical Repair in the Treatment of Infrarenal Abdominal Aortic Aneurysms (AAA)
- 2000-2002  
Amount: \$100,000 Source: WL Gore and Associates  
Co-Investigator, Pittsburgh Center, **CI-1023 (AdGVVEGF<sub>121.10</sub>)**  
Title: A Double-Blind, Randomized, Placebo-Controlled, Dose-Ranging, 26 Week Study to Assess the Safety and Efficacy of CI-1023 (AdGVVEGF<sub>121.10</sub>) in Peripheral Arterial Disease Patients with Severe, Disabling Intermittent Claudication
- 2000-2002  
Amount: \$75,000 Source: Pfizer  
Principle Investigator, Pittsburgh Center, **Lifepath**  
Title: Pivotal, Multicenter, Prospective, concurrent Control, Non Randomized Trial to Evaluate the Safety and Effectiveness of the Baxter Lifepath AAA Bifurcated Graft in Patients with Infrarenal Abdominal Aortic Aneurysm.
- Amount: \$160,000 Source: Edwards Life Sciences Corporation

- 2000-2002 Principle Investigator, UPMC Center, **H376/95 THRIVE V**  
Title: A Double-Blind, Efficacy and Safety Study of the Oral Direct Thrombin Inhibitor, H376/95 versus standard Therapy [Enoxaparin and warfarin (Coumadin)] in Patients with Acute, Symptomatic Deep Venous thrombosis with or without Pulmonary Embolism (THRIVE V)  
Amount: \$15,000 Source: Astra Zeneca
- 2001-2002 Principle Investigator, UPMC center, **Ancure performance**  
Title: Performance Evaluation of Changes to the Ancure Endograft System and Instructions for Use  
Amount: \$20,000 Source: Guidant Corporation
- 2001-2004 Co-Investigator, Pittsburgh Center, **CGT003**  
Title: A Phase III, Multi-Center, Randomized, Double-Blind, Placebo-Controlled Trial of the Ex-Vivo Treatment with CGT003 of Peripheral Vein Grafts in Subjects Undergoing Peripheral Arterial Bypass Graft Procedures  
Amount: \$105,000 Source: Corgentech, Inc.
- 2002-2005 Principal Investigator, Pittsburgh Center, **Quantum LP™**  
Title: A Prospective, Multicenter Study of the Quantum LP™ Stent Graft System for the Treatment of Abdominal Aortic Aneurysms  
Amount: \$90,000 Source: Cordis, A Johnson & Johnson Company
- 2002-2004 Principal Investigator, Pittsburgh Center, **Trivascular**  
Title: A Phase I Evaluation of the Safety of the TriVascular AAA Stent Graft in the Treatment of AAA's  
Amount: \$50,000 Source: TriVascular, Inc.
- 2002-2005 Principal Investigator, Pittsburgh Center, **Lifepath phase III**  
Title: Lifepath AAA Bifurcated Graft Phase III Expansion Trial #2002-16 IDE Supplement IDE #G990059  
Amount: \$75,000 Source: Edwards, LLC
- 2002-2006 Co-Investigator, Pittsburgh Center, **CAMPER** study  
Title: Effect of Clopidogrel vs. Placebo, on a Background of Standard Care Including Aspirin, in Maintaining the patency of Lower Limb Arteries After Angioplasty  
Amount: \$90,000 Source: Sanofi Synthelabo Inc.
- 2003-2004 Principal Investigator, Pittsburgh Center, **TROPIC** study  
Title: The dose response of Niacin ER/Lovastatin on Peak Walking Time in Patients with Intermittent Claudication – A Matrix design.  
Amount: \$40,000 Source: Kos Pharmaceuticals
- 2003-2005 Co-Investigator, Pittsburgh center, **VALOR** trial  
Title: Evaluation of the Medtronic AVE Talent Thoracic Stent Graft System for the Treatment of Thoracic Aortic Aneurysms.  
Amount: \$130,000 Source: Medtronic AVE.
- 2004-2005 National Co-Principle Investigator, Co-Investigator Pittsburgh Center, **TAG 03-03** Study.  
Title: Evaluation of the GORE TAG Thoracic Endoprosthesis for Treatment of Descending Thoracic Aneurysms TAG 03-03  
Amount: \$60,000 Source: WL Gore and Associates
- 2003-2006 Co-Investigator, Pittsburgh Center, **Powerlink** System study  
Title: Clinical Study Protocol (Phase II) for the Endologix Suprarenal Bifurcated

Powerlink® System Protocol #00-006

2004-2005 Amount: \$5000 Source: Endologix Corporation  
National Co-Principle Investigator, Co-Investigator, Pittsburgh Center, **TAG 04-02** Study  
Title: Treatment IDE for use of the Gore TAG Thoracic Endoprosthesis in  
Subjects with Descending Thoracic Aortic Aneurysms Requiring Surgical  
Repair.

2004-2005 Amount: \$15,000 Source: WL Gore and Associates  
Co-Investigator, Pittsburgh site, **TAG 04-01** study  
Title: Evaluation of the GORE TAG Thoracic Endoprosthesis for the treatment  
of Complex Pathology of the descending Thoracic Aorta.

2004-2006 Amount: \$25,000 Source: WL Gore & Associates  
Principle Investigator, Pittsburgh Center, **Zenith fenestrated** trial  
Title: Zenith fenestrated AAA Endovascular Graft Clinical Study.

2004-2005 Amount: \$60,000 Source: Cook Inc.  
Principle Investigator, Pittsburgh Center, **TX2** trial  
Title: Zenith TX2 Thoracic TAA Endovascular Graft Clinical Trial  
Protocol.

2004-2005 Amount: \$173,000 Source: Cook Inc.  
Principle Investigator, Pittsburgh Center, **CAPTURE** Study  
Title: A Post Approval Study of the Guidant Carotid Stent Systems and Embolic  
Protection Systems #04-715

2004-2006 Amount: \$40,000 Source: Guidant Corp.  
Co-Investigator, Pittsburgh Center, **Excluder LP study**, AAA 04-04 study  
Title: A clinical Evaluation of the GORE EXCLUDER Bifurcated  
Endoprosthesis – Low Permeability in the primary Treatment of Infrarenal  
Abdominal Aortic Aneurysm

2005-2007 Amount: \$50,000 Source: WL Gore & Associates  
Co-Investigator, Pittsburgh Center, **RESILIENT** Trial  
Title: A Randomized Study Comparing the Edwards Self-Expanding LifeStent vs  
Angioplasty alone in Lesions Involving the SFA and Proximal Popliteal Artery.

2005-2007 Amount: \$45,000 Source: Edwards Life Sciences LLC  
Principle Investigator, Pittsburgh Center, **EXACT** Trial  
Title: Emboshield and Xact Post Approval Carotid Stent Trial

2006-2007 Amount: \$ 50,000 Source: Abbott Laboratories  
Principle Investigator, Pittsburgh Center **SAPPHIRE** Trial  
Title: Stenting and Angioplasty with Protection in Patients at High-risk for  
Enderterectomy

2006-2008 Amount: \$ 129,000 Source: Cordis  
Principle Investigator, Pittsburgh Center, **PYTHAGORAS** Trial  
Title: PYTHAGORAS: Prospective Aneurysm Trial: High Angle Aorfix  
Bifurcated Stent Graft

2005-2008 Amount: \$ 122,500 Source: Lombard Medical Technologies, Inc.  
Principle Investigator, Pittsburgh Center, **PIVOTAL** Trial  
Title: Positive Impact of Endovascular Options for Treating Aneurysms Early

2006-2008 Amount: \$ 185,000 Source: Medtronic Vascular, Inc.  
Co-Investigator, Pittsburgh Center, **EMPIRE** Trial

2006-2008  
Title: The Embolic Protection with Reverse Flow Study of the Gore Neuro Protection System in Carotid Stenting of Patients at High Risk for Carotid Endarterectomy  
Amount: \$ 40,000 Source: WL Gore & Associates  
Co-Investigator, Pittsburgh Center, **VALIANT** Trial

2006-2008  
Title: Valor II: The Valiant Thoracic Stent Graft Clinical Study  
Amount: \$ 59, 185 Source: Medtronic AVE  
Co-Investigator, Pittsburgh Center, **AAA 03-02** Trial

2006-present  
Title: A Clinical Study Evaluating the Use of the GORE EXCLUDER Bifurcated Endoprosthesis-31mm in the Primary Treatment of Infrarenal Abdominal Aortic Aneurysms  
Amount: \$ 53,100 Source: WL Gore & Associates  
Principle Investigator, Pittsburgh Center, **PYTHAGORAS** Trial

2007-2008  
Title: Pythagoras  
Amount: \$122,500 Source: Lombard Medical Technologies, Inc.  
Co-Investigator, Pittsburgh Center, **DURABILITY II** Trial

2007-2008  
Title: The US Study for Evaluating Endovascular Treatments of Lesions in the Superficial Femoral Artery and Proximal Popliteal by using the Protégé Everflex Nitinol Stent System  
Amount: \$ 121,860 Source: EV3, Endovascular, Inc.  
Principle Investigator, Pittsburgh Center, **CHOICE** Trial

2007-2008  
Title: Carotid Stenting for High Risk Surgical Patients; Evaluating Outcomes through the Collection of Clinical Evidence  
Amount: \$ 100,000 Source: Abbott Vascular  
Co-Investigator, Pittsburgh Center, **TAG 06-02** Trial

2007-2008  
Title: Evaluation of the GORE TAG Thoracic Endoprosthesis—45mm for the Primary Treatment of Aneurysms of the Descending Thoracic Aorta  
2007-2013  
Co-Investigator, Pittsburgh Center, **TAG 05-02** Trial  
Title: A Clinical Evaluation of the GORE TAG Endoprosthesis in the Primary Treatment of Descending Thoracic Aortic Aneurysms  
Amount: \$ 68,290 Source: WL Gore & Associates  
Principle Investigator, Pittsburgh Center, **RELAY** Trial

2007-2014  
Title: A Phase II Clinical Study of the Safety and Efficacy of the RELAY Thoracic Stent-Graft in Patients with Thoracic Aortic Pathologies  
Amount: \$ 116,250 Source: Bolton Medical, Inc.  
Principle Investigator, Pittsburgh Center, **SAPPHIRE** Trial

2008-2015  
Title: Stenting and Angioplasty with Protection in Patients at High-risk for Endarterectomy  
Amount: \$40,000 Source: Cordis Corporation  
National Principle Investigator  
Title: Evaluation of the **ENDURANT** stent graft

2010-2015  
Amount: \$ 211,518 Source: Medtronic AVE  
Co-Investigator, Pittsburgh Center, **CTAG 0801** Trial  
Title: Evaluation of the GORE Conformable TAG® Thoracic Endoprosthesis for Treatment of Acute Complicated Type B Aortic Dissection  
Amount: \$ 143,438 Source: WL Gore & Associates

- 2010-2015 Co-Investigator, Pittsburgh Center, **CTAG 0802** Trial  
Title: Evaluation of the GORE Conformable TAG® Thoracic Endoprosthesis for Treatment of Traumatic Transection of the Descending Thoracic Aorta  
Amount: \$ 143,438 Source: WL Gore & Associates
- 2010-2015 Co-Investigator, Pittsburgh Center, **CTAG 0803** Trial  
Title: Evaluation of the GORE™ Conformable TAG® Thoracic Endoprosthesis for the Primary Treatment of Aneurysm of the Descending Thoracic Aorta  
Amount: \$ 81,210 Source: WL Gore & Associates
- 2010-2013 Co-Investigator, Pittsburgh Center, **Stroll** Trial  
Title: S.M.A.R.T.™ Nitinol Self-Expandable Stent in the Treatment of Obstructive Superficial Femoral Artery Disease  
Amount: \$ 145,125 Source: Cordis Corporation
- 2010-2011 Co-Investigator, Pittsburgh Center, **ORION** Trial  
Title: ORION A Boston Scientific Trial of the EPIC™ Nitinol Stent System in the Treatment of Atherosclerotic Lesions in Iliac Arteries  
Amount: \$ 83,850 Source: Boston Scientific
- 2010-2015 Co-Investigator, Pittsburgh Center, **Attract** Trial  
Title: Acute Venous Thrombosis: Thrombus Removal with Adjunctive Catheter-Directed Thrombolysis (the ATTRACT Trial)  
Amount: \$ 100,000 Source: Washington University in a cooperative agreement with the National Institutes of Health; National Heart, Lung, Blood Institute; Covidien/Bacchus Vascular, Genentech; JOBST®, a brand of BSN Medical; MEDRAD Interventional/Possis
- 2010-present Principle Investigator, Pittsburgh Center, **Trivascular AAA Stent Graft System** Trial  
Title: A Pivotal Clinical Study to Evaluate the Safety and Effectiveness of the TriVascular AAA Stent Graft System  
Amount: \$208450 Source: TriVascular, Inc.
- 2011-present Co-Investigator, Pittsburgh Center, **Preserve** Trial  
Title: PRESERVE-Zenith Iliac Branch System Clinical Study to Evaluate the Safety and Effectiveness of the Zenith Branch Endovascular Graft-Iliac Bifurcation with the Zenith Connection Endovascular Covered Stent  
Amount: \$116,160 Source: Cook, Inc.
- 2011-present Co-Investigator, Pittsburgh Center, **Spiral Z** Trial  
Title: Zenith Spiral-Z AAA Iliac Leg Graft Post-Market Registry  
Amount: \$21,000 Source: Cook, Inc.
- 2011-present Co-Investigator, **Treovance** Trial  
Title: A Phase II Clinical Study of the Safety and Performance of the Treovance Stent-Graft with Navitel Delivery System for Patients with Infrarenal Abdominal Aortic Aneurysms  
Amount: \$16,200 Source: Bolton Medical Inc.
- 2012-2015 Co-Investigator, Pittsburgh Center, **Visibility Iliac** Trial  
Title: VIS-Pro™ Balloon Expandable Iliac Study VISIBILITY Iliac

	Study		
2012-2015	Amount: \$8,900	Source: EV3	
	Co-Investigator, Pittsburgh Center, <b>Durability Iliac</b> Trial		
	Title: Durability Iliac		
2012-present	Amount: \$3,600	Source: EV3	
	National Principal Investigator, <b>Inspiration</b> Trial		
	Title: A Multicenter, Open Label, Prospective, Non-Randomized Study of the INCRAFT Stent Graft System in Subjects with Abdominal Aortic Aneurysms		
2012-present	Amount: \$60,404	Source: Cordis Corporation	
	Co-Investigator, Pittsburgh Center, <b>Ventana</b> Trial		
	Title: Prospective, Multicenter, Single Arm Safety and Effectiveness Trial of the Endologix Fenestrated Stent Graft System for the Endovascular Repair of Juxtarenal/Pararenal (JAA/PAA) Aneurysms		
2013-present	Amount: \$90,250	Source: Endologix, Inc.	
	Principle Investigator, Pittsburgh Center, <b>IBE 12-04</b> Trial		
	Title: Evaluation of the GORE® EXCLUDER Iliac Branch Endoprosthesis for the Treatment of Common Iliac Artery Aneurysms OR Aorto-iliac Aneurysms		
2013-present	Amount: \$23,315	Source: WL Gore & Associates	
	Co-Investigator, Pittsburgh Center, <b>Tigris</b> Trial		
	Title: Evaluation of the GORE® TIGRIS Vascular Stent in the Treatment of Atherosclerotic Lesions of the Superficial Femoral and Proximal Popliteal Arteries		
2013-present	Amount: \$15,066	Source: WL Gore	
	Co-Investigator, <b>SSB 11-02</b>		
	Title: Evaluation of the Gore® TAG® Thoracic Branch Endoprosthesis in the Treatment of Proximal Descending Thoracic Aortic Aneurysms		
2014-present	Amount: \$16,354	Source: WL Gore, Inc.	
	Co-Investigator, Pittsburgh Center, <b>DANCE</b> Trial		
	Title: Delivery of Dexamethasone to Adventitia via Bullfrog Catheter After Angioplasty		
2014-present	Amount: \$8,000	Source: Mercator	
	Principle Investigator, Pittsburgh Center, <b>Nellix</b> Trial		
	Title: Prospective, Multicenter, Single Arm Safety and Effectiveness Study of Endovascular Abdominal Aortic Aneurysm Repair Using the Nellix System		
2014-present	Amount: \$35,000	Source: Endologix, Inc.	
	Co-Investigator, Pittsburgh Center, <b>BES 10-07</b> Trial		
	Title: Evaluation of the GORE® VIABAHN BALLOON EXPANDABLE ENDOPROSTHESIS (VIABAHN BX) for the Treatment of Occlusive Disease in the Common and External Iliac Arteries		
	Amount: \$13,878	Source: WL Gore & Associates	



- 2014-present Co-Investigator, **RACE**  
Title: Ruptured Aorta Centers of Excellence  
Amount: \$12,000 Source: Syntactx, LLC
- 2014-present Co-Investigator, **Zenith Low Profile Trial**  
Title: Zenith® Low Profile AAA Endovascular Graft Clinical Study  
Amount: \$10,445 Source: Cook, Inc.
- 2014-present Co-Investigator, **SSB 11-03**  
Title: Evaluation of the Gore® TAG® Thoracic Branch Endoprosthesis  
in the Treatment of Aortic Arch Aneurysms  
Amount: Source: WL Gore, Inc.
- 2015-present Co-Investigator, **1302 TAMBE**  
Title: GORE® EXCLUDER® Thoracoabdominal Branch Endoprosthesis  
in the Treatment of Type IV Thoracoabdominal Aortic Aneurysms  
Involving the Visceral Branch Vessels  
Amount: \$45,000 Source: WL Gore & Associates
- 2015-present Co-Investigator, **p-Branch**  
Title: Zenith® p-Branch™ Pivotal Study  
Amount: Source: Cook, Inc
- 2016-present Co-Investigator, **ROADSTER 2 Registry**  
Title: Registry of Transcarotid Artery Revascularization in Patients with  
Significant Carotid Artery Disease  
Amount: \$8,000 Source: Silk Road Medical
- 2016-present Principle Investigator, **GORE SCAFFOLD**  
Title: GORE® Carotid Stent Clinical Study for the Treatment of Carotid  
Artery Stenosis in Patients at Increased Risk for Adverse Events  
from Carotid Endarterectomy  
Amount: \$40,000 Source: WL Gore & Associates
- 2016-present Co-Investigator  
Title: GORE® EXCLUDER® Conformable AAA Endoprosthesis in the  
Treatment of Abdominal Aortic Aneurysms  
Amount: On hold Source: WL Gore & Associates

#### CURRENT RESEARCH INTERESTS

1. Endovascular repair of abdominal aortic aneurysms
2. Endovascular treatment of thoracic aneurysms and dissection
3. Role of carotid artery stenting
4. Bio-mechanical predictors of aneurysm rupture
5. Socioeconomic trends of aneurysm repair

#### Peer Reviewed Research Presentations (National and International Meetings)

1. Moosa H, Falanga F, **Makaroun M**, Peitzman A, Steed D, et al. Oxygen Diffusion in Chronic Venous Ulceration. Presented at the XVII World Congress of the International Society for Cardiovascular Surgery, August 1985.
2. Peitzman A, **Makaroun M**, Slasky S, Ritter P. Prospective Study of Computed Tomography in Acute

- Management of Blunt Abdominal Trauma in Adults. Presented at the 45th Annual Meeting of the American Association for the Surgery of Trauma, 1985.
3. Moosa H, **Makaroun M**, Peitzman A, Steed D, Webster M. Transcutaneous Oxygen Measurement in Limb Ischemia: Effects of Regional Blood Flow and Arterial Oxygen Tension. Presented to the Association for Academic Surgery Annual Meeting, November 1985.
  4. Higgins R, Steed D, Julian T, **Makaroun M**, Peitzman A, Webster M, et al. The Management of Aortoenteric and Paraprostatic Fistulas. Presented to the 2nd Annual Meeting of the Eastern Vascular Society, May 1988.
  5. **Makaroun M**, Shuman-Jackson N, Rippey A, Arvan S. Persantine Thallium Stress Test as a Predictor of Myocardial Infarction Following Peripheral Vascular Procedures. Presented at the 14th Annual Surgical Symposium of The Association of VA Surgeons, May 1990.
  6. Durham S, Steed D, Moosa H, **Makaroun M**, Webster M. Probability of Rupture of an Abdominal Aortic Aneurysm Following an Unrelated Operative Procedure: A Prospective Study. Presented at the 38th Scientific Meeting of the International Society for Cardiovascular Surgery, North American Chapter, June 1990.
  7. Johnson W, Lee K, **Makaroun M**, et al. Comparative Evaluation of Externally Supported Dacron and PTFE Prosthetic Grafts for Axillo-Femoral and Femoral-Femoral Reconstructions. Presented at the Annual American College of Surgeons Meeting, October 1991.
  8. Johnson W, Lee K, **Makaroun M**, et al. Comparative Evaluation of PTFE, HUV and Saphenous Vein Bypasses in Fem-Pop AK Vascular Reconstruction. Presented at the 40th Scientific Meeting of the International Society for Cardiovascular Surgery, North American Chapter, June 1992.
  9. Wilson S, Mayberg M, Yatsu F, Weiss D, and the VA Cooperative Study 309 Trialists (**Makaroun M**). Crescendo TIAs: A Surgical Imperative. Presented at the 40th Scientific Meeting of the International Society for Cardiovascular Surgery, North American Chapter, June 1992.
  10. Steed D, Downs L, Yonas H, **Makaroun M**, Webster M. Regional Cerebral Blood Flow in Subclavian Steal Syndrome. Presented at the 22nd Annual Meeting of the Society for Clinical Vascular Surgery, March 1994.
  11. St. Jean P, Majumder P, Ferrell R, Steed D, **Makaroun M**, Webster M. Association and Linkage Analyses of Abdominal Aortic Aneurysm. Presented at the 42nd Scientific Meeting of the International Society for Cardiovascular Surgery, North American Chapter, June 1994.
  12. Vorp D, Raghavan M, Severyn D, Watkins S, Steed D, **Makaroun M**, Webster M. Wall Strength and Stiffness of Dilated and Undilated Aorta from Patients with Infraarenal Aortic Aneurysm. 42nd Scientific Meeting of the International Society for Cardiovascular Surgery, North American Chapter, June 1994. (Poster)
  13. Webster M, Watkins S, Vorp D, Kameneva M, **Makaroun M**, Steed D. Characterization of Thrombus in Abdominal Aortic Aneurysm. 42nd Scientific Meeting of the International Society for Cardiovascular Surgery, North American Chapter, June 1994. (Poster)
  14. **Makaroun M**, Webster M, Steed D, Smith H, Johnson D, Yonas H. Compromised Cerebral Blood Flow Reactivity is a Predictor of Stroke in Patients with Symptomatic Carotid Artery Occlusive Disease. Presented at the 48th Annual Meeting of the Society for Vascular Surgery, June 1994.
  15. Muluk S, Steed D, **Makaroun M**, Pham S, Kormos R, Griffith B, Webster M. Aortic Aneurysm in Cardiac Transplant Recipients. Presented at the 9th Annual Meeting of the Eastern Vascular Society, May 1995.
  16. Menzoian J, for the PAOD Group (**Makaroun M**). Leg Amputations in Patients with Severe PAOD Not Amenable to Revascularization Procedures: Results of a Randomized, Placebo-Controlled, Multicenter Study with Alprostadil (Prostaglandin E1). Presented at the SVS/ISCVS Annual Meeting, June 1995.
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  32. Vorp DA, Kute SM, **Makaroun M**, Webster MW, "The Effect of Proximal Artery Flow on the Hemodynamics at the Distal Anastomosis of an End-to-End Bypass Graft", 1999 Joint Annual Meeting of the SVS/NA-ISCVS, Washington DC, June 1999.
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  68. Dillavou ED, Buck DG, Muluk Sc, **Makaroun MS**. Two dimensional vs Three dimensional CT scan: Defining the Gold Standard for Aortic Measurement. Presented at the International Congress XVI on Endovascular Interventions. 3rd place Fellow Prize. Phoenix AZ, Feb 2003.
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  71. Dillavou ED, Muluk SC, Bertges D, **Makaroun MS**. Trends in AAA Surgery: Beyond the Hype of Endovascular Repair. 1<sup>st</sup> Prize. Annual Fellow Day. New York NY, May 2003.
  72. Dillavou ED, Muluk SC, Bertges D, **Makaroun MS**. Is Neck Dilatation after Endovascular Repair Graft Dependent? Results of Four US Phase II Trials. Seventeenth Annual Meeting of the Eastern Vascular Society. New York NY, May 2003.
  73. Carpenter JP, Brewster DC, Kwolek C, **Makaroun MS**, Martin J, McCann R, McKinsey J, Beebe H for the LifePath Investigators. MultiCenter Trial results of the Lifepath System for endovascular aneurysm repair (EVAR). Joint meeting of the SVS/AAVS. Chicago IL, June 2003.
  74. Raman KG, Layne S, **Makaroun MS**, Kelley M, Rhee RY, Tzeng E, Muluk SC. Contralateral disease progression is common after carotid endarterectomy. Joint meeting of the SVS/AAVS. Chicago IL, June 2003.
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  80. **Makaroun MS**, Dillavou ED, Kee ST, Sicard G, Ckaikof E, Bavaria J, Williams D, Cambriua R, Mitchell S. Endovascular Treatment of Thoracic Aortic Aneurysms: Results of the Phase II Multicenter trial of the GORE TAG Thoracic Endoprosthesis. Presented at the 2004 Vascular Annual Meeting Anaheim CA.
  81. Matsumura JS, Brewster DC, **Makaroun MS**. Mid-term results of a controlled trial of open Versus endovascular treatment of AAA. Presented at the 2004 Vascular Annual Meeting, Anaheim CA.
  82. Fairman RM, Woo EY, Skelly CL, White RA, Katzen B, **Makaroun MS**, et al: Preliminary Results of the Phase I Evaluation of the Trivascular AAA Stent Graft System in the Treatment of AAA. 33<sup>rd</sup> Annual Symposium of The Society for Clinical Vascular Surgery 2005, Coral Gables FL.
  83. Boules TN, Compton CN, Dillavou ED, Gupta N, Tzeng E, **Makaroun MS**. Can CT Scan Findings

- Predict “Impending” Aneurysm Rupture? 33<sup>rd</sup> Annual Symposium of The Society for Clinical Vascular Surgery. Coral Gables FL, 2005.
84. Vorp DA, Chew DW, **Makaroun MS**, “Association of Biophysical Forces with Impaired Abdominal Aortic Aneurysm (AAA) Wall Remodeling,” BMES 2005 Annual Meeting. Baltimore MD, October 2005.
  85. Dillavou ED, Muluk SC, **Makaroun MS**: A decade of change in AAA repair in the US: Have we improved outcomes equally among men and women? 19<sup>th</sup> Eastern Vascular Society meeting. Pittsburgh PA, May 2005.
  86. Dillavou ED, Muluk SC, **Makaroun MS**: Improving Aneurysm Related Outcomes: Nationwide Benefits of Endovascular Repair. Vascular Annual Meeting 2005 SVS. Chicago IL.
  87. Boules TN, Selzer F, Stanziale SF, Marone LK, Rhee RY, Woody JD, Cho JS, Gupta N, Tzeng E, Dillavou Ed, **Makaroun MS**. Endovascular Management of Isolated Iliac Artery Aneurysms. Vascular Annual Meeting 2005 SVS. Chicago IL.
  88. Stanziale SF, Marone LK, Hill K, Boules TN, Brimmeier J, Wholey MH, **Makaroun MS**. Carotid Artery Stenting in Octogenarians is Associated with Increased Adverse Periprocedural Outcome. Vascular Annual Meeting 2005 SVS. Chicago IL.
  89. Hassoun HT, Mitchell RS, **Makaroun MS**, Whiting A, Matsumura JS. Aortic Neck After Endovascular Repair of Thoracic Aortic Aneurysms. Vascular Annual Meeting 2005 SVS. Chicago IL.
  90. Sahai R, Pillus D, Myers V, **Makaroun MS** and Gupta NY. Is Routine DVT Surveillance Justified in the Neuro-Intensive Care Unit? 34<sup>th</sup> Annual Symposium SCVS LAS Vegas NV.
  91. **Makaroun MS**, Dillavou ED, Mitchell RS, Cambria R. Mid Term Results of a Comparative Trial of Endovascular Thoracic Aneurysm Repair vs Open Surgery. SVS 2006. Philadelphia PA.
  92. Sayeed S, Stanziale S, Marone LK, Haider S, Rieder LS, Hill K, Wholey MH and **Makaroun MS**. Do Angiographic Lesion Characteristics Predict Adverse Outcomes After Carotid Artery Stenting. Presented at the 20<sup>th</sup> Annual Meeting of The Eastern Vascular Society. Washington DC.
  93. Cho JS, AbuHamad G, Rhee RY, **Makaroun MS**. Surgical Repair of Ruptured Thoracoabdominal Aortic Aneurysms. Presented at the 20<sup>th</sup> Annual Meeting of The Eastern Vascular Society. Washington DC.
  94. Barbato JE, Small J, Go M, Cho JS, Rhee RY, **Makaroun MS**. Small AAA Expansion Rates in Current Practice. Presented at the 35<sup>th</sup> Annual symposium of the SCVS. Orlando FL, March 2007.
  95. Go MR, Barbato JE, Cho JS, Dillavou E, Gupta N, Rhee RY, **Makaroun MS**. Thoracic Aortic Stent Grafting for Traumatic Aortic Transection. Presented at the 35<sup>th</sup> Annual Symposium of the SCVS. Orlando FL, March 2007.
  96. Go MR, Barbato JE and **Makaroun MS**. What is the Clinical Utility of a Six month CT in the Follow-up of Endovascular Aneurysm Repair Patients?. Vascular Annual Meeting (SVS) 2007. Baltimore MD.
  97. Dillavou ED, **Makaroun MS**. Predictors of Morbidity and Mortality with Endovascular and Open Thoracic Aneurysm Repair. 21<sup>st</sup> Annual Meeting of the Eastern Vascular Society. Baltimore MD.
  98. Cho JS, Kim JY, Blake AN, Gupta NY, Dillavou ED, Marone LK, Rhee RY, Tzeng E, **Makaroun MS**. Contemporary Results of Open Repair of Ruptured Aortoiliac Aneurysms. 21<sup>st</sup> Annual Meeting of the Eastern Vascular Society. Baltimore MD, Sept 2007.
  99. Ko SH, Dillavou ED, Gupta NY, **Makaroun MS**, Cho JS. Recovery Rate of Retrievable Inferior Vena Cava Filters in Trauma Patients. Poster award presentation. 21<sup>st</sup> Annual Meeting of the Eastern vascular Society. Baltimore MD, Sept 2007.
  100. Baril DT, Rhee RY, Kim J, **Makaroun MS**, Chaer RA, Leers SA, Marone LK. Duplex Criteria for Determination of Significant In-Stent Stenosis after Angioplasty and Stenting of the Superficial Femoral Artery. SVS 2008 Vascular Annual Meeting. San Diego CA, June 2008.
  101. Chaer RA, Gushchin A, Rhee RY, Marone LK, Leers S, **Makaroun MS**. Duplex Ultrasound as the Sole Long-Term Surveillance Method Post EVAR: A Safe Alternative for Stable Aneurysms. SVS 2008 Vascular Annual Meeting. San Diego CA, June 2008.
  102. Vorp DA, Chew DW, Shah SR, Cleary DA, Rhee RY, **Makaroun MS**. Biomechanics and Pathobiology of Abdominal Aortic Aneurysm. 16<sup>th</sup> International Conference on Mechanics in Medicine and Biology. Pittsburgh 2008.

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104. Rao S, Konig G, Leers SA, Cho JS, Marone LK, Rhee RY, **Makaroun MS**, Chaer RA. Pharmacomechanical thrombectomy for deep venous thrombosis: An alternative for high risk patients. American Venous Forum. Phoenix AZ, Feb 2009.
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106. Rao S, Konig G, Leers SA, Cho JS, Marone LK, Rhee RY, **Makaroun MS**, Chaer RA. Pharmacomechanical thrombectomy for deep venous thrombosis: An alternative for high risk patients. European Venous Forum. Copenhagen Denmark, June 2009.
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108. Chaer RA, Shen J, Rao A, Cho JS, AbuHamad G, **Makaroun MS**. Cerebral reserve is decreased in Elderly patients with carotid stenosis. PVSS 2009 Vascular Annual Meeting, Denver CO.
109. Gupta N, Yuo T, Konig G, Dillavou ED, Leers SA, Chaer RA, Cho JS, **Makaroun MS**. Treatment Strategies of Arterial Steal after Arterio-Venous Access. SVS 2009 Vascular Annual Meeting, Denver CO
110. Fernandez N, McEnaney R, Marone L, Rhee R, Leers S, **Makaroun MS**, Chaer R. Predictors of Failure and Success of Tibial Interventions for Critical Limb Ischemia. SVS 2009 Vascular Annual Meeting, Denver CO.
111. Cho JS, Park T, Kim JY, Rhee RY, **Makaroun MS**. Prior Endovascular Abdominal Aortic Aneurysm Repair Provides No Survival Benefits when the Aneurysm Ruptures. Eastern Vascular Society 2009, Philadelphia PA.
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113. Vorp DA, Xavier, AE, Chew DW, Cleary DA, Morgan MA, Shah SR, Rhee RY, Marone LK, Dillavou ED, Abu-Hamad GS, **Makaroun MS**. Differential Gene and Protein Expression is Associated with Hypoxia in the Human Abdominal Aortic Aneurysm (AAA) Wall. Poster Presentation at NAVBO Scientific Conference, April 2009.
114. Jeyabalan G, Konig G, Marone L, Rhee R, **Makaroun MS**, Cho J, Chaer RA. Inflow Thrombosis Does Not Adversely Affect Thrombolysis Outcomes of Symptomatic Iliofemoral DVT. American Venous Forum 22<sup>nd</sup> Annual Meeting. February 2010, Amelia Island FL.
115. Shin SH, Baril DT, Chaer R, Rhee R, **Makaroun MS**, Marone L. Limitations of Re-entry Devices in Lower Extremity Chronic Total Occlusions. SCVS 2010 Annual Symposium. Scottsdale AZ.
116. Jeyabalan G, Kim JY, Park T, Chaer R, **Makaroun MS**, Cho JS. Comparison of Modern Open Repair of Infrarenal and Pararenal Abdominal Aortic Aneurysms: Early Outcomes and Late Renal Dysfunction. SCVS 2010 Annual Symposium. Scottsdale AZ.
117. Baril DT, Polanco P, **Makaroun MS**, Chaer R. Left Renal Vein Transportation for the Treatment of Nutcracker Syndrome. SVS 2010 Vascular Annual Meeting. Boston MA.
118. **Makaroun MS**, Tuckek M, Massop D, Henretta J, Rhee R, Buckley C, et al. The Endurant Stent Graft System: Results of the Regulatory Pivotal Study. SVS 2010 Vascular Annual Meeting. Boston MA.
119. Chaer R, Wagner J, Vasconcelos R, Sachdev U, Cho J, Rhee R. **Makaroun MS**. Surgical Revascularization for Aorto-Iliac Occlusive Disease (AIOD): Current Indications and Outcomes. SVS 2010 Vascular Annual Meeting. Boston MA.
120. Rao A, **Makaroun MS**, Marone L, Cho J, Baril DT, Chaer R. Long-term Outcomes of Internal Carotid Artery Dissection. SVS 2010 Vascular Annual Meeting. Boston MA.



121. Ochoa Chaar CI, Leers S, Marone L, Cho JS **Makaroun MS**, et al. Lower Extremity Revascularization (LER) in Young Patients: Have Endovascular Options Impacted Practice and Outcomes? EVS 2010 Eastern Vascular Society Annual Meeting 2010. New York NY.
122. Shin SH, Baril D, Chaer RA, **Makaroun MS**, Rhee R, Marone L. Cryoplasty Offers No Advantage Over Standard Balloon Angioplasty for the Treatment of In-Stent Restenosis. EVS 2010 Eastern Vascular Society Annual Meeting 2010. New York NY.
123. Chaer RA, Vasconcelos R, Cho JS, Rhee R, Marone L, **Makaroun MS**. Synchronous and Metachronous Thoracic Aneurysms (TAA) in Patients with Abdominal Aortic Aneurysms (AAA). EVS 2010 Eastern Vascular Society Annual Meeting 2010. New York NY.
124. Domenick N, Saqib NU, Marone L, Rhee R, **Makaroun MS**, Chaer RA. Impact of Gender and Age on Outcomes of Tibial Artery Endovascular Interventions (TAEI) in Critical Limb Ischemia (CLI). 21st Annual Winter Meeting of the Peripheral Vascular Surgery Society (PVSS). January 2011, Steamboat Springs CO.
125. Stevens J, Cho J, **Makaroun MS**, McDaniel B, Dillavou E, Marone L, Rhee R, Chaer RA. Characteristics of Temporary Inferior Vena Cava (IVC) Filters Non-Retrieval. American Venous Forum 23<sup>rd</sup> Annual Meeting. February 2011, San Diego CA.
126. Saqib N, Domenick N, Marone L, Rhee R, **Makaroun MS**, Chaer RA. Outcomes of Restenosis Following Tibial Artery Endovascular Interventions (TAEI) for Critical Limb Ischemia (CLI). Society for Clinical Vascular Surgery Annual Symposium. March 2011, Orlando FL.
127. Dalsing M, **Makaroun MS**, Harris LM, Mills JL, Eidt J. APDVS Survey of Knowledge Acquisition and Educational Needs of Vascular Trainees. Society for Vascular Surgery 2011 Annual Meeting. June 2011, Chicago IL.
128. Saqib NU, Park T, Park SC, Rhee R, Chaer RA, Marone LK, **Makaroun MS**, Cho JS. Does Endovascular Repair of Ruptured Abdominal Aortic Aneurysm Confer Survival Benefits Over Open Repair? Society for Vascular Surgery 2011 Annual Meeting. June 2011, Chicago IL.
129. Yuo T, Degenholtz H, Chaer RA, Kraemer K, **Makaroun MS**. Geographic Variation in Carotid Artery Stent (CAS) Utilization is Linked to Volume of Index Vascular Surgery (VS), Interventional Cardiology (IC), or Interventional Radiology (IR) Procedures in California (CA). Society for Vascular Surgery 2011 Annual Meeting. June 2011, Chicago IL.
130. Hager ES, Cho JS, **Makaroun MS**, Park SC, Chaer RA, Marone L, Al-Khoury G, Rhee R. Do Endografts with Suprarenal Fixation Perform Better Than Those with Infrarenal Fixation in the Treatment of Patients with Short (<1.5 cm) Proximal Aortic Necks? Society for Vascular Surgery 2011 Annual Meeting. June 2011, Chicago IL.
131. Saqib NU, Park T, Park SC, Rhee R, Chaer RA, Marone LK, **Makaroun MS**, Cho JS. Does Endovascular Repair of Ruptured Abdominal Aortic Aneurysm Confer Survival Benefits Over Open Repair? Eastern Vascular Society 25th Annual Meeting. September 2011, Washington DC.
132. Hager ES, Marone L, Rhee R, Cho JS, **Makaroun MS**, Chaer RA. Long Term Anatomic and Functional Outcomes of Pharmacomechanical Thrombolysis (PMT) of Iliofemoral DVT. Eastern Vascular Society 25th Annual Meeting. September 2011, Washington DC.
133. Hager ES, Tahara R, Dillavou E, Al-Khoury G, Yuo T, Rhee R, Marone L, **Makaroun MS**, Chaer RA. Long-Term Outcomes of Endovascular Intervention For May-Thurner Syndrome. American Venous Forum 24<sup>th</sup> Annual Meeting. February 2012, Orlando FL.
134. Hoehn M, McEnaney R, Yuo T, Chaer RA, Rhee R, **Makaroun MS**, Marone L. Comparative Analysis of Endovascular and Open Popliteal Artery Aneurysm Repair; Mid-term Results. Society for Clinical Vascular Surgery Annual Symposium. March 2012, Las Vegas NV.
135. Yuo T, Degenholtz H, Chaer RA, Kraemer K, **Makaroun MS**. Increased Hospital Use of Carotid Artery Stenting (CAS) over Carotid Endarterectomy (CEA) is Associated with Inferior Outcomes in Asymptomatic Patients. Society for Clinical Vascular Surgery Annual Symposium. March 2012, Las Vegas NV.

136. Byrne R, Marone L, Rhee R, Cho J, Winger D, Wang L, Bunker C, **Makaroun MS**, Chaer RA. Contemporary Outcomes of Endovascular Interventions for Arterial Acute Limb Ischemia (ALI). Society for Clinical Vascular Surgery Annual Symposium. March 2012, Las Vegas NV.
137. Kiguchi M, Marone L, Chaer RA, Kim J, Shi ZY, Celis R, **Makaroun MS**, Rhee R. Patterns of Femoropopliteal Recurrence after Endoluminal Therapy: Does Routine Stenting of the Entire Diseased Artery Decrease the Incidence of Clinically Significant Recurrence? Society for Clinical Vascular Surgery Annual Symposium. March 2012, Las Vegas NV.
138. Hager ES, Avgerinos ED, Jeyabalan G, Marone L, **Makaroun MS**, Chaer RA. Vena Cava Interruption during Thrombolysis for Acute Iliofemoral Deep Vein Thrombosis. European Society for Vascular Surgery Annual Meeting. September 2012, Bologna Italy.
139. Eid R, Wang L, Leers S, Abu-Hamad G, **Makaroun MS**, Chaer RA. Endoscopic Versus Open Saphenous Vein Graft Harvest for Lower Extremity Bypass in Critical Limb Ischemia (CLI). Eastern Vascular Society 26th Annual Meeting. September 2012, Pittsburgh PA.
140. Leake A, Kiguchi M, Switzer G, Mitchell E, **Makaroun MS**, Chaer RA. A Survey of SVS Members and Surgery Department Chairs on the Integrated 0+5 Vascular Surgery (VS) Training Paradigm. Eastern Vascular Society 26th Annual Meeting. September 2012, Pittsburgh PA.
141. Sidaoui J, Fish L, Yuo, T, Marone L, **Makaroun MS**, Chaer RA. Intact Abdominal Aortic Aneurysm (AAA) Repair is Not Appropriate in Patients on Dialysis. Society for Clinical Vascular Surgery 41<sup>st</sup> Annual Symposium. March 2013, Miami FL.
142. Genovese E, Jeyabalan G, Marone L, Avgerinos E, **Makaroun MS**, Chaer RA. Management of Symptomatic Gastrointestinal Complications Associated with Retrievable Inferior Vena Cava Filters. Society for Clinical Vascular Surgery 41<sup>st</sup> Annual Symposium. March 2013, Miami FL.
143. Wallace JR, Yuo T, Chaer RA, **Makaroun MS**. Outcomes of Percutaneous Lower Extremity Procedures Depend More on Indication than Physician Specialty. Society for Clinical Vascular Surgery 41<sup>st</sup> Annual Symposium. March 2013, Miami FL.
144. Doucet D, Avgerinos E, Sachdev U, Yuo T, Chaer RA, Leers SA, **Makaroun MS**. Autologous Non Great Saphenous Veins Do Not Provide Better Outcomes than Prosthetic Conduits for Below-Knee Bypass. Society for Clinical Vascular Surgery 41<sup>st</sup> Annual Symposium. March 2013, Miami FL.
145. Sidaoui J, Yuo TH, Marone LK, Fish L, **Makaroun MS**, Chaer RA. Revascularization of Asymptomatic Carotid Stenosis Is Not Appropriate In Patients on Dialysis. Society for Vascular Surgery 2013 Annual Meeting. May-June 2013, San Francisco CA.
146. Yuo TH, Chaer RA, Dillavou ED, Marone LK, **Makaroun MS**. Elderly patients started on hemodialysis (HD) with a tunneled dialysis catheter (TDC) have similar long term survival after arteriovenous fistula (AVF) or arteriovenous graft (AVG) placement. Society for Vascular Surgery 2013 Annual Meeting. May-June 2013, San Francisco CA.
147. Wallace J, Sidaoui J, Fish L, Marone LK, Baril DT, Avgerinos ED, **Makaroun MS**, Chaer RA. Outcomes of Lower Extremity Revascularization (LER) in Patients on Dialysis. Society for Clinical Vascular Surgery 42<sup>nd</sup> Annual Symposium. March 2014, Carlsbad CA.
148. Hacker RI, Chaer RA, Baril DT, **Makaroun MS**, Marone LK. Long Term Outcomes of Endovascular Interventions for Femoropopliteal Disease. Society for Clinical Vascular Surgery 42<sup>nd</sup> Annual Symposium. March 2014, Carlsbad CA.
149. Avgerinos ED, Go C, Ling J, Naddaf A, Steinmetz AL, **Makaroun MS**, Chaer RA. Long term Carotid Artery Disease Progression and Related Neurologic Events Following Carotid Endarterectomy. Society for Clinical Vascular Surgery 42<sup>nd</sup> Annual Symposium. March 2014, Carlsbad CA.
150. Wu WC, Eid R, Hacker RI, **Makaroun MS**, Chaer RA. Long-term Surveillance of EVAR Patients with Ultrasound is Safe and Effective. Society for Clinical Vascular Surgery 42<sup>nd</sup> Annual Symposium. March 2014, Carlsbad CA.
151. Leake AE, Chaer RA, Singh MJ, **Makaroun MS**, Marone LK. Contemporary Outcomes of Open and Endovascular Popliteal Artery Aneurysm Repair. Society for Clinical Vascular Surgery 43<sup>rd</sup> Annual Symposium. March 2014, Miami FL.

152. Liang NL, Chaer RA, Marone LK, Singh MJ, **Makaroun MS**, Avgerinos AE. Sustained Hemodynamic Benefits Following Catheter Directed Interventions for Acute Pulmonary Embolism. Society for Clinical Vascular Surgery 43<sup>rd</sup> Annual Symposium. March 2014, Miami FL.
153. Taha A, Marone LK, Avgerinos AE, Wu T, Al-Khoury G, Singh MJ, Jeyabalan G, **Makaroun MS**, Chaer RA. Initial Experience with Infrageniculate Access for Retrograde Endovascular Interventions (REI) for Chronic Lower Extremity Ischemia. Society for Clinical Vascular Surgery 43<sup>rd</sup> Annual Symposium. March 2014, Miami FL.
154. Leake AE, Yuo TH, Wu T, Fish L, Dillavou ED, Chaer RA, Leers SA, **Makaorun MS**. Arteriovenous Graft (AVG) Is Associated with Increased Secondary Procedures but Lower Catheter Use than Arteriovenous Fistula (AVF). Society for Vascular Surgery 2014 Annual Meeting. June 2014, Boston MA.
155. Shukla AJ, Eid R, Fish L, Avgerinos E, Marone LK, **Makaroun MS**, Chaer RA. Contemporary Outcomes of Intact (iVAA) and Ruptured (rVAA) Visceral Artery Aneurysm Repair. Society for Vascular Surgery 2014 Annual Meeting. June 2014, Boston MA.
156. Leake AE, Winger DG, Leers SA, Gupta N, **Makaroun MS**, Dillavou ED. Dialysis Access-Associated Steal Syndrome Management and Outcomes: A 10-Year Experience. Society for Vascular Surgery 2014 Annual Meeting. June 2014, Boston MA.
157. Eid RE, Shukla AJ, Fish L, Avgerinos E, Marone LK, **Makaroun M**, Chaer R. Long term outcomes of conservative management of visceral artery aneurysms. 28<sup>th</sup> Annual Eastern Vascular Society Meeting. Miami FL, September 2014.
158. Avgerinos E, Naddaf A, Sachdev U, Doucet D, Mohapatra A, Leers SA, Chaer RA, **Makaroun MS**. Autologous alternative veins do not provide better mid term outcomes than prosthetic conduits for below knee bypass when great saphenous vein is unavailable. ESVS Annual Meeting. Stockholm Sweden, September 2014.
159. Liang NL, Avgerinos ED, Marone LK, Singh MJ, **Makaroun MS**, Chaer RA. Equivalent outcomes between ultrasound-assisted thrombolysis and standard catheter-directed thrombolysis for the treatment of acute pulmonary embolism. American Venous Forum 27<sup>th</sup> Annual Meeting. Palm Springs CA, February 2015.
160. Liang NL, Chaer RA, Marone LK, Singh MJ, **Makaroun MS**, Avgerinos ED. Sustained hemodynamic benefits following catheter directed interventions for acute pulmonary embolism. 43<sup>rd</sup> SCVS Annual Symposium. California USA, March/April 2015.
161. Taha A, Marone L, Avgerinos ED, Wu T, Alkhoury G, Singh M, Jeyabalan G, **Makaroun M**, Chaer RA. Initial experience with infrageniculate access for retrograde endovascular interventions (REI) for chronic lower extremity ischemia. 43<sup>rd</sup> SCVS Annual Symposium. California USA, March / April 2015.
162. Avgerinos ED, Liang NL, El-Shazly OM, Toma C, Singh MJ, **Makaroun MS**, Chaer RA. Improved Early Outcomes but Increased Complications with Catheter-Directed Interventions vs. Standard Anticoagulation in Acute Submassive Pulmonary Embolism. SVS Vascular Annual Meeting. Chicago MI, June 2015.
163. Avgerinos ED, El-Shazly OM, Jeyabalan G, Marone L, Singh MJ, **Makaroun MS**, Chaer RA. Acute iliofemoral thrombosis: The Impact of IVC thrombus extension on thrombolysis. SVS – VESS Spring Meeting Chicago, MI, USA, 17-20 June 2015.
164. Avgerinos ED, Chaer RA, Naddaf A, El-Shazly OM, Marone L, Leers SA, Tzeng E, **Makaroun MS**. Primary Closure following carotid endarterectomy is not inferior to other closure techniques. SVS – VESS Spring Meeting. Chicago IL, June 2015.
165. Avgerinos ED, Abou Ali A, Saadeddin Z, Pandya Y, Hager E, Singh M, Al-Khoury G, **Makaroun MS**, Chaer RA. Iliac Vein Stenting Following Catheter Directed Thrombolysis for Acute Iliofemoral

- Thrombosis: Outcomes and Predictors of Failure. American Venous Forum 30<sup>th</sup> Annual Meeting, Tucson, AZ, USA 20-23 February 2017
166. Sridharan N, Liang N, Robinson D, Avgerinos ED, Tzeng E, **Makaroun MS**. Implementation of Drug-Eluting Stents for the Treatment of Femoropopliteal Disease Provides a Significant Cost-to-System Savings: A Single-State Outpatient Simulation. Society for Vascular Surgery 2017 Annual Meeting. June 2017, San Diego, CA.
  167. Boitet A, Abdul-Malak O, Mohapatra A, Henry J, Avgerinos ED, **Makaroun MS**, Hager E. Peroneal Bypass Versus Endovascular Peroneal Intervention for Critical Limb Ischemia. Society for Vascular Surgery 2017 Annual Meeting. June 2017, San Diego, CA.
  168. Long B, Chaer RA, Wu B, Sridharan ND, Genovese E, Eslami M, **Makaroun MS**, Avgerinos ED. Carotid Interventions for Asymptomatic Patients With High Grade Carotid Stenosis Do Not Confer Any Long-term Benefits Over Conservative Management. 31<sup>st</sup> Annual Eastern Vascular Society Meeting, Savannah, USA 5-8 October 2017. Abstract PC21
  169. Mohammad H. Eslami, Alik Farber, Efthymios Avgerinos, Michel **Makaroun**. External Validation of the VSGNE Risk Predictive Model of Adverse Outcomes After Carotid Endarterectomy in Procedure-Targeted American College of Surgeons National Surgical Quality Improvement Database. 44<sup>th</sup> Annual Meeting, New England Society for Vascular Surgery. Boston MA September 2017.
  170. Mohammad H. Eslami, MD, MPH, Efthymios Avgerinos, MD, Rabih A. Chaer, MD MS, Michael J. Singh, MD, Michel S. **Makaroun**, MD. Choice of Operation and Specific Set of Preoperative Comorbidities Can Predict Adverse Postoperative Outcomes after Extra-anatomic Suprainguinal Bypass Procedures. SCVS 2018
  171. Becky Long, MD, Gregory Salzler, MD, Efthymios D. Avgerinos, Rabih A. Chaer, MD, Steven A. Leers, Eric Hager, Michel S. **Makaroun**, MD, Mohammad H. Eslami. "Contemporary Results of Surgical Management of Peripheral Mycotic Aneurysms." 31<sup>st</sup> Annual Meeting of the Eastern Vascular Surgery 2017. Savannah GA October 2017.

## **SERVICE**

### Editorships/Journal Refereeing/Study Sections

1985 - Present	Annals of Surgery, reviewer
1993 - Present	Diabetes Care, reviewer
1996 - Present	Journal of Vascular Surgery, reviewer
1999, February	Ad-Hoc reviewer, Clinical trials review committee, NHLBI
1999, October	Ad-Hoc reviewer, Clinical trials review committee, NHLBI
2001 - Present	Journal of Endovascular Therapy, <u>Editorial Board</u>
2001 - Present	Circulation, reviewer
2002 - Present	Vascular and Endovascular Surgery, <u>Editorial Board</u>
2003 - Present	Tecnicas Endovasculares, <u>Editorial Board</u>
2004 - Present	Vascular, <u>Editorial Board</u>
2004 - 2009	Journal of Vascular Surgery, <u>Editorial Board</u> .
2013 - Present	Indian Journal of Vascular Surgery, <u>Editorial Board</u> .

### Accreditation Council for Graduate Medical Education (ACGME)

2010 – Present	Appeal Panel Member for Vascular Surgery
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### Vascular Board of the American Board of Surgery

2004-2008	Certifying Exam. Associate Examiner
2008-Present	Certifying Exam. Senior examiner

### University Of Pittsburgh Medical School

1998 - 1999	Standing Committee for Clinical Track Faculty Promotions and Appointments
1999 - 2001	Non-Tenure Committee for Faculty Promotions and Appointments

### Presbyterian Hospital

1984 - 1985	Medical Records Committee
1984 - 1985	Budget Committee
1984 - 1985	ICU Subcommittee
1989 - 2001	Tissue Review Committee
2002 –2006	Surgical/Interventional/Trauma/Transplant (SITT) Services Subcommittee of the Technology Assessment Committee(TAC)

### Shadyside Hospital

2004 – present	Endovascular Oversight Committee
2005 -2006	Chair, Endovascular Oversight Committee

### VA Medical Center

1986 - 1990	Medical Records Committee
1986 - 1988	Infection Control Committee
1986 - 1994	Pharmacy and Therapeutics Committee
1986 - 1990	Utilization Review Committee
1986 - 1990	MEDIPRO - Physician Advisor
1987 - 1990	Research and Development Committee
1987 - 1989	Chairman, Laser Task Force
1987 - 1988	Chairman, Blood Flow Evaluation Unit Task Force
1990 - 1991	Clinical Executive Board
1990 - 1993	Operating Room Committee
1991 - 1994	Drug Utilization Review Subcommittee