

## CURRICULUM VITAE – Bassiouny Hisham

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**Name:** Hisham Bassiouny, MB,Bch.  
**Date of Birth:** March 30, 1954  
**Place of Birth:** Cairo, Egypt  
**Citizenship:** USA  
**Languages:** English, French, German, Arabic

### EDUCATION:

High School Diploma, Victoria College, Maadi, Cairo 1967-1970  
Pre-Medical, Cairo University, Faculty of Natural Sciences 1970-1971  
Mb. Bch. Diploma, Cairo University, School of Medicine 1971-1977

### GRADUATE TRAINING:

Transitional Internship, Cairo University Hospitals 1977-1978  
General Practitioner, Military Service, Egypt 1979-1980  
Surgical Externship, Linz General Hospital, Linz, Austria 1980-1981  
Surgical Internship, Maryland General Hospital, Baltimore, MD 1981-1982  
General Surgical Residency, Henry Ford Hospital, Detroit, MI 1982-1986  
Clinical Vascular Fellow, Henry Ford Hospital, Detroit, MI 1986-1987  
Cardiovascular Post- Doctoral Research Fellow, University of Chicago 1987-1989

### ACTIVE HOSPITAL APPOINTMENTS and CLINICAL PRACTICE SITES:

Advocate Aurora Bay Care, Green Bay, Wi (Locum:3/24-4/04/22, 6/9-6/13/22, 6/23-6/27/22)  
HSHS Sacred Heart Hospital, Eau Claire, Wi, (Locum :1/15-1/26/21, 1/29-2/1/21, 6/11-6/14/21, 6/25-7/5/21,3/7-3/21/22)  
Unity Point Health Methodist /Pekin/ Proctor Hospitals, Peoria, Il (Locum:8/10-8/21/20)  
Dar Al Fouad Hospitals in Collaboration with the Cleveland Clinic, Giza, Egypt (2011-now)

### PAST HOSPITAL APPOINTMENTS and CLINICAL PRACTICE SITES

Henry Ford Hospital, Detroit, Mi (2018-19)  
University of Chicago Medical Center, Chicago, IL (1987-2011)  
Attending Staff- Weiss Memorial Hospital, Chicago, IL (1990-2011)

### FACULTY APPOINTMENTS:

Professor of Surgery, University of Chicago 2004-2011  
Associate Professor of Surgery, University of Chicago 1996-2003  
Assistant Professor of Surgery, University of Chicago 1989-1996  
Instructor of Surgery, University of Chicago 1987-1989

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### ADMINISTRATIVE and DEPARTMENTAL APPOINTMENTS:

Chief of Vascular Surgery and Endotherapy, Dar Al Fouad Hospital, Cairo, Egypt	2011-2018
Chief, Section of Vascular Surgery and Endovascular Therapy, University of Chicago	2006-2011
Program Director, Vascular Surgery Fellowship, University of Chicago	2006-2011
Director of Non-Invasive Vascular Laboratory, University of Chicago	1988-2011
Medical Director-University of Chicago Vascular Surgery at Weiss	1999-2011
Vice Chairman- University of Chicago Department of Surgery, Weiss	2003-2004
Director of Surgical Education at Weiss	2004-2008

### HONORS AND RESEARCH AWARDS:

Matriculated with Honors- Cairo University Medical School	1976
Annual Chicago Vascular Research Seminar Award	1988
Louis Block Award	1989
American Heart Association Grant in Aid Award	1996
R01 National Institute of Health Award	1996
Whitaker Foundation Grant Award	2001
R01 National Institute of Health Award	2002
Top 100 Classic Papers Cited in Vascular Surgery	
Distinguished Fellow Society For Vascular Surgery	

### CLINICAL INTERESTS

Image analysis of carotid plaque structure, carotid endarterectomy and stenting  
Open and endovascular management of carotid artery disease and aortic aneurysms  
Robotic Vascular Surgery

### NATIONAL/ REGIONAL SOCIETIES COMMITTEE and BOARD OF SURGERY APPOINTMENTS

Chairman- Local Arrangement Committee- Midwestern Vascular Surgical Society	1999
President- Roy D Mclure Surgical Society	1993
President- Chicago Endovascular Society	1999
Member- Scientific Program Committee- Society for Vascular Surgery	1999
Chairman- Scientific Program Committee- Society for Vascular Surgery	2002
Member- International Advisory Board- Middle East and North Africa (MENA) Chapter/International Society of Cardiovascular Surgeons (International Society of Cardiovascular Surgeons- ISCVS	2002
Member- Lifeline Research and Education Committee- Society for Vascular Surgery	2004
Ad Hoc Member- Atherosclerosis and Inflammation in the Cardiovascular System (AICS)	
Study Section- NHLBI/ NIH	2005-2006
Charter Member- Atherosclerosis and Inflammation in the Cardiovascular System (AICS)	2007-2009
Study Section- NHLBI/ NIH	

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Vascular Surgery Board Examiner, Certifying Exam 2007-2011  
Member- International Relations Committee- Society for Vascular Surgery 2008-2011

### **MEDICAL SCHOOL and HOSPITAL COMMITTEES**

Core Curriculum Committee- University of Chicago, Department of Surgery 1990-1992  
Student Curriculum Committee- University of Chicago, Department of Surgery 1991-1993  
Research Committee- University of Chicago, Department of Surgery 1996-2000  
Operating Room Committee- Weiss Memorial Hospital 1994-2002  
Quality Resource Management Committee- Chairman, Weiss Memorial Hospital 2003  
Committee on Molecular Medicine- University of Chicago 2003-2010  
Committee for Resident Education- University of Chicago Department of Surgery 2004-2011  
Committee for Medical Student Education-  
University of Chicago Department of Surgery 2004-2011  
University of Chicago Clinical Research Board 2007-2011

### **CERTIFICATION AND LICENSURE:**

Diplomate of the American Board of Surgery #33155 - 3/88  
Certificate of Added Qualifications in General Vascular Surgery #100057- 10/88  
Recertification in General Vascular Surgery #100057- 10/24  
State of Illinois Licensure #036-075451-current  
State of Michigan Licensure #403406- current  
State of Wisconsin Licensure #72413-20 current  
State of Maine Licensure # MD25417-current  
FLEX- State of Maryland 1982  
Visa Qualifying Exam / ECFMG 1979

### **MEMBERSHIP IN PROFESSIONAL SOCIETIES:**

Egyptian Medical Syndicate  
American Medical Association 1988  
Roy D. Mclure Henry Ford Hospital Surgical Society 1988  
Association of Academic Surgery 1989  
Midwestern Vascular Surgical Society 1990  
Chicago Surgical Society 1991  
American Heart Association Scientific Council / Cardiothoracic and Vascular Surgery 1992  
American Venous Forum 1992  
International Society for Cardiovascular Surgery 1993  
American Association for the Advancement of Science 1993  
Fellow- American College of Surgeons 1994  
Peripheral Vascular Surgical Society 1995  
American Heart Association of Metropolitan Chicago 1994

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International Society for Endovascular Specialists	1995
Egyptian Society for Vascular Surgery and Angiology	1996
Society for Vascular Surgery	1996
Chicago Endovascular Society	1999
Society of University Surgeons	1999
American Vascular Research Organization	2003
International Society for Cardiovascular Specialists	2005
Association of Program Directors in Vascular Surgery	2006

### PEER SCIENTIFIC JOURNAL REVIEWER

Annals of Vascular Surgery
Journal of Vascular Surgery
Atherosclerosis, Thrombosis, and Vascular Biology
British Medical Council
American Journal of Pathology
Stroke

### ENDOVASCULAR DEVICE TRAINING

Basic Endovascular Course, University of Cincinnati	1994
Intermediate Endovascular Course, Arizona Heart Institute	1995
Guidant Ancure infra renal AAA Stent Graft, University of Pittsburgh	1999
Medtronic Aneurix Infra renal AAA Stent Graft, Stanford University	1999
W.L Gore Excluder infra renal AAA Stent Graft, Antwerpen, Belgium	2002
Cook Zenith Infra renal Stent Graft, Chicago	2003
Percutaneous AAA Stent Grafting, Baylor Methodist Hospital	2005
Guidant Acculink and Acculink Carotid Protection and Stenting System	2005
W.L Gore TAG Thoracic Aortic Stent Graft, University of Pittsburgh	2005
Cook Zenith TX2 Thoracic Stent Graft, University of Washington	2010
Cook Zenith Fenestrated Stent Graft, University of Lille	2011
Cook Iliac Branch Device, University of Lisbon	2012

### LAPARO-ROBOTIC TRAINING

Intuitive DaVinci Robotic Training, Johns Hopkins University	2004
Porcine Visceral Robotic Bypasses, University of Illinois, Chicago	2004
Robotic iliac and renal artery bypasses, The University of Minnesota,	2006
Intuitive DaVinci Robotic Training, Sunnyvale, CA	2007
Intuitive DaVinci Robotic Training with Petr Stadler, MD, Prague, The Czech Republic	2007

### PROCTORSHIP /CONSULTANT

Cook Medical  
Jotech GMBH

2011

### PAST FUNDING

#### Principal Investigator:

#### **W. L. Gore: 7/1/87- 6/30/89**

Effect of wall motion inhibition on anastomotic intimal hyperplasia.

PI: Hisham S. Bassiouny

Funding: \$20,000

#### **Louis Block Grant: 9/89**

Effect of flow and compliance mismatch on anastomotic neointimal hyperplasia.

PI: Hisham S. Bassiouny

Funding: \$24,523

#### **Mellon Foundation Grant: 8/90**

Anastomotic intimal hyperplasia.

PI: Hisham S. Bassiouny

Funding: \$25,000

#### **University of Chicago, Dept. of Surgery Research Award: 7/1/92- 6/30/93**

Morphologic and physiologic correlations in anastomotic intimal hyperplasia.

PI: Hisham S. Bassiouny

Funding: \$23,868

#### **Washington Square Foundation Grant 7/15/92**

Use of transcranial doppler in the assessment of intracranial disease in the elderly.

PI: Hisham S. Bassiouny

Funding: \$13,500

#### **American Heart Association: 7/1/95 - 6/3/98**

Pathobiologic mechanisms in anastomotic intimal hyperplasia.

PI: Hisham S. Bassiouny

Funding: \$120,000

#### **National Institutes of Health R01: 9/1/96- 8/30/99**

Shear stress regulation of intimal hyperplasia.

PI: Hisham S. Bassiouny

Funding: \$1,486,360

#### **The University of Chicago, Surgery Research Committee Seed Grant: 01/01/00- 06/30/01**

Pathobiology and treatment of venous intimal hyperplasia

PI: Hisham S. Bassiouny

Funding: \$25,000

**W.L. Gore and Associates: 08/24/01- 08/31/02**

Mechanism and prevention of arteriovenous PTFE graft failure.

PI: Hisham S. Bassiouny

Funding: \$54,000

**National Institutes of Health R01: 09/01/02- 08/31/07**

Biomechanical mechanisms and venous intimal hyperplasia.

PI: Hisham S. Bassiouny

Funding: \$1,407,621

**Pharmacia (now Pfizer): 04/01/02 - 03/31/04**

Structural and Molecular determinants of the unstable carotid plaque.

PI: Hisham S. Bassiouny

Funding: \$125,000

**Pfizer: 06/22/06 - 06/23/07**

Structural and molecular determinants of carotid atherosclerotic plaque tissues.

PI: Hisham S. Bassiouny

Funding: \$230,000

**Netherland Organization for Scientific Research: 2/1/17-1/30/18**

Carotid Plaque Calcification and Stroke

Visiting Professor: \$12,000

**Co-Investigator:**

**National Institutes of Health: 7/1/88-6/30/93**

Biomechanical factors in anastomotic intimal hyperplasia.

PI: CK Zarins

Funding: \$775,384, Grant No: 1R01HL41267-01

**Whitaker Biomed Engin Res Grant: 09/01/0- 08/30/03**

An investigation of biomechanical mechanism in arteriovenous graft failure.

PI: F Loth

Funding: \$90,734

**National Institutes of Health: 08/05/03- 06/30/07**

PI: Saloner, (NCIRE)

MRI determination of carotid atherosclerosis progression. Funding: \$1,225,631, Grant No 1R01NS045085-01A1

**Whitaker Biomed Engin Res Grant: 09/1/03- 08/31/06**

Development of algorithms for quantitatively accurate image reconstruction of X- Ray fluorescence computed tomography.

PI: P LaRiviere

Funding: \$239,199

**A multimode sonic and ultrasonic diagnostic imaging method.**

PI: T Royston

Funding: \$342,630, Grant No.1R21EB002511-01

### **Participating Investigator and Clinical Trials:**

#### **NIH-SCOR Atherosclerosis Project 82: 12/1/86- 11/30/91**

Effect of heart rate, hypertension and modulations of flow on coronary atherosclerosis.

PI: CK Zarins

Funding: \$1,197,105

#### **NIH-SCOR Atherosclerosis Project III: 12/1/91- 11/30/96**

Effects of modulation of pressure and flow on vessel wall adaptation: A molecular analysis.

PI: S Glagov

Funding: \$219,636

#### **Otsuka Pharmaceuticals: 08/01/01- 07/31/04**

Protocol 21-98-214-01A randomized, double-blind, placebo-controlled, multicenter, parallel-arm, study to assess the long-term effects of Pletal (Cilostazol) versus placebo administered orally to patients with intermittent claudication secondary to peripheral arterial disease.

PI: Hisham S. Bassiouny

Funding: \$2,010/patient

**CAPTURE Trial:** Carotid RX Acculink/Accunet post approval trial to uncover unanticipated or rare events (CAPTURE).

SPONSOR: Guidant PI: John Lopez, MD

Status: IRB approved; closed to enrollment

**ART ASSIST:** Hemodynamic therapy in peripheral arterial disease.

SPONSOR: Investigator Initiated

PI: Hisham Bassiouny

Status: IRB approved

### **IRB Approved Protocols:**

MRI Determination of Carotid Atherosclerosis Progression (123868)

Original Approval: 07/01/03, Renewed: 03/19/07

A Multimode Sonic & Ultrasound Diagnostic Imaging Method (135278)

Original Approval: 01/14/2005, Renewed: 12/19/2005

Minimally Invasive Visceral Robotic Bypass Surgery Study (14088A)

Original Approval: 09/12/2005, Renewed: 08/08/2006

Hemodynamic Therapy in Peripheral Arterial Disease (14144A)

Original Approval: 09/27/2005, Renewed: 08/15/2006

Structural and Molecular Determinants of the Unstable Carotid Plaque (14177 A)

Original Approval: 10/03/2005, Renewed: 09/05/2006

Structural and Molecular Determinants of Lower Extremity Plaque (15360A)

Original Approval: 04/19/07

Minimally invasive computer-assisted vascular surgery using the da Vinci surgical system

(17002A) Original Approval: 2005, Renewed : 2008

### **COURSE DIRECTORSHIP**

Advances in the Diagnosis and Management of Carotid Occlusive Disease, Chicago, 9/99  
Simulation in Hemodynamics Workshop, U of C/Argonne National Labs /U of Illinois, Chicago, 3/01  
Advances in the Diagnosis and Treatment of Aneurysms and Lower Extremity Occlusive Disease, Chicago, 9/01  
Symposium for Minimally Invasive Treatment for Abdominal Aortic Aneurysms and Lower Extremity Occlusive Disease, Chicago, 6/03  
Art and Science- Stenting for Carotid Stenosis and Aortic Aneurysms, Chicago 4/05

### **NATIONAL AND INTERNATIONAL INVITED FACULTY and COURSE PARTICIPATION**

Annual Chicago Vascular Research Forum, 1994- 2001  
Chicago Vascular Forum, Chicago, IL, 2000  
Northwestern Memorial Annual Vascular Symposium, 2000  
ISCVS /Middle East and North African Chapter- Cairo, Egypt, 2002  
ISCVS /Middle East and North African Chapter, Alexandria, Egypt, 2003  
14th National Symposium/ Non-Invasive Diagnosis of Vascular Disease, St Louis, 2005  
Research Initiatives in Vascular Disease (SVS/NHLBI), Washington, DC, 2005  
Society for Vascular Ultrasound Annual Meeting, Chicago, 2005  
VEITH Annual Symposium, New York, 2005  
Vascular Society of Egypt, 2006  
5th International Vascular and Endovascular Congress, Bibliotheca Alexandrina, 2006  
Moderator- Middle East and North African Society for Vascular Surgery, Aswan, Egypt, 2007  
15th National Symposium / Non-Invasive Diagnosis of Vascular Disease, St. Louis, 2007  
Research Initiatives in Vascular Disease (SVS/NHLBI), Washington, DC, 2007  
16th National Symposium/ Noninvasive Diagnosis of Vascular Disease, St. Louis, MO, 2009.  
Endovascular Surgery: Bringing Basic Science into Clinical Practice, Karolinska Institute, Stockholm, 2009.  
Northwestern University Vascular Symposium, Chicago 2009  
Vascular Society of Egypt, Sharm El Sheikh, Egypt, 2010  
Society for Vascular Surgery/ Vascular Ultrasound Annual Meeting Joint Session, Denver, 2010  
17th National Symposium / Noninvasive Diagnosis of Vascular Disease, St. Louis, MO, 2011  
Vascular Society of Egypt, Hurghada, 2011  
Repair of Complex Aortic Aneurysms. 9<sup>th</sup> Annual Meeting of the Vascular Society of Egypt. March 2012 Carotid Artery Stenting vs Endarterectomy, 2012 Update. 9<sup>th</sup> Annual Meeting of the Vascular Society of Egypt. March 2012



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Repair of Complex Aortic Aneurysms. 9<sup>th</sup> Annual Meeting of the Vascular Society of Egypt. March 2012

Supra-aortic Branches. Utility in arterial reconstruction for aortic aneurysms and occlusive disease. 8<sup>th</sup> Annual Egyptian Vascular Club December 2012

Asymptomatic Carotid Stenosis “When to Intervene “. 8<sup>th</sup> Annual Egyptian Vascular Club Meeting, December 2012

Asymptomatic Carotid Stenosis “What to do “. Annual Vascular Conference, Zagazig University, Egypt, May 2013.

Clinical Education at the Maadi Armed Forces Hospital: Personal Experience. Military Medical Academy, Egypt. March 2013.

What’s New in EVAR. 8th Annual Dar Al Fouad Hospital Cardiology Meeting, May 2013

Advances in Endovascular Aortic Aneurysm Repair. Al Mansoura University, Egypt, November 2013.

Diabetes and Carotid Plaque Structure. 2<sup>nd</sup> Annual Conference on the Diabetic Foot, National Institute for Diabetes, December 2013

Decision making in Type B Aortic Dissections. 10<sup>th</sup> Annual Meeting Vascular Society of Egypt. March 2014.

Intervention for Type B Aortic Dissections. First Annual Cardiology Conference of the Suez Canal Authority, April 2014

Percutaneous EVAR. First Annual Cardiology Conference of the Suez Canal Authority, April 2014.

Acute Aortic Syndromes: Interventional Perspective: DAF Cardiology Conference. Fairmont Hotel. May 2014

Advances in EVAR and TEVAR. Egyptian Society of Cardiology PVD Working Group, October 2014.

TEVAR Tips and Tricks. Cardio Alex 2015. Bibliotheca Alexandrina. June 2015

Organizing Committee and Invited Faculty, Intervention Master Aortic Course (IMAC), EGYPT,2015/16/17/18/19

Egyptian Society for Vascular Surgery Annual Meeting. Cairo Egypt, September 2022.

### **DOCTORAL THESIS, FELLOW, RESIDENT and STUDENT MENTORING**

Heather Hall, MD, Clinical Vascular Fellow, 2009-2011  
The University of Chicago

Timothy Wu, MD, Clinical Vascular Surgery Fellow, 2008-2010,  
The University of Chicago

John Carson, MD, Clinical Vascular Surgery Fellow, 2007-2009,  
The University of Chicago

Jateen Prema, MD, Clinical Vascular Surgery Fellow, 2006-2008  
The University of Chicago

David Smith: University of Illinois, Doctoral Thesis, 2007  
Project: Experimental investigation of transition to turbulence in arteriovenous grafts

Carl-Magnus Wahlgren, MD, PhD, Clinical Vascular Surgery Fellow, 2005-2007  
The University of Chicago

Wael Shaalan, Visiting Research Project Professional, 2005-2007  
Projects: Carotid plaque structure and clinical outcomes, IPFCC and lower extremity blood flow

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Erika Ketteler, MD, Clinical Vascular Surgery Fellow, 2004- 2006,  
The University of Chicago,

Sang Wook-Lee: University of Illinois, Doctoral Thesis, 2005  
Project: Turbulence measurements in AV grafts

Jennifer Grogan M.D, Research Associate 2003- 2004, University of Chicago, Vascular  
Surgery  
Project: Biomechanical forces and venous intimal hyperplasia

Wael Shaalan, Visiting Research Associate, 2001- 2003.  
Project: Doctoral thesis: Carotid plaque structure and clinical outcome

Mahesh Sardesai MS3 U of C, 2000  
Project: Flow velocity profile and MAP kinase activation, 2000

N Arslan, M.S. University of Illinois, Doctoral Thesis, 1998  
Project: Turbulence measurements inside an arterio-venous graft under steady flow conditions

John Fortunato M.D., Training Grant Research Fellow, 1997- 1999  
Project: Cardiovascular pathophysiology gene therapy and irradiation in intimal hyperplasia

Hrachya Kocharyan M.D., Ph.D., 1996-1999  
Project: MAP Kinase activation in anastomotic intimal hyperplasia

Ruo H. Song, M.D. Research Associate, 1994- 1995  
Project: Shear stress regulation of intimal hyperplasia

Suzanne Mickucki M.D, Ph.D., Resident in Surgery- University of Chicago, 1994  
Project: Carotid plaque pathobiology

Daniel C. Lee MS3- University of Chicago, 1990  
Project: Heart Rate and Experimental Atherogenesis

Eric Choi MS3 - University of Chicago, 1989  
Project: Anastomotic intimal hyperplasia

### BIBLIOGRAPHY

#### MANUSCRIPTS:

1. **Bassiouny HS**, Lieber BB, Giddens DP, Xu CP, Glagov S, Zarins CK. Quantitative inverse correlation of wall shear stress with experimental intimal thickening. *American College of Surgeons- Surgical Forum* 39:328-330, 1988.
2. **Bassiouny HS**, Davis H, Massawa N, Gewertz BL, Glagov S, Zarins CK. Critical carotid stenosis: Morphologic and chemical similarity between symptomatic and asymptomatic plaques. *Journal of Vascular Surgery* 9(2):202-212, 1989.
3. Massawa N, **Bassiouny HS**, Glagov S, Zarins CK. Artery wall restructuring in response to increased flow. *American College of Surgeons- Surgical Forum* 40:285-286, 1989.
4. Clark E, Gewertz BL, **Bassiouny HS**, Zarins CK. Current results of elective aortic reconstruction for aneurysmal and occlusive disease. *Journal of Cardiovascular Surgery* 31(4) :438-447, 1990.
5. Giddens EM, Giddens DP, White SS, Zarins CK, **Bassiouny HS**, Glagov S. Exercise flow conditions eliminate stasis at vascular graft anastomoses. *Biofluid Mechanics \*3: Proceedings of the Third Mid-Atlantic Conference in Biofluid Mechanics*, Schneck DJ, Lucas CL (eds), New York University Press, NY, 255-267, 1990.
6. Vito RP, Choi HS, Seifferth TA, Zarins CK, Glagov S, **Bassiouny HS**. Measurement of strain in soft biological tissue. *Developments in Theoretical and Applied Mechanics*, 536-543, 1990.
7. **Bassiouny HS**, Levine L. Penile duplex sonography in the diagnosis of venogenic impotence. *Journal of Vascular Surgery* 13(1):75-83, 1991.
8. Clark E, Mass D, **Bassiouny HS**, Zarins CK, Gewertz BL. True aneurysmal disease in hand and upper extremity. *Annals of Vascular Surgery* 5(3):276-281, 1991.
9. Figueras C, Jones SA, Giddens DP, Zarins CK, **Bassiouny HS**, Glagov S. Relationships between flow patterns and geometry in end-to-side anastomotic grafts. *Proceedings of the ASME* 20:255-257, 1991.
10. **Bassiouny HS**, White S, Glagov S, Choi E, Giddens DP, Zarins CK. Anastomotic intimal hyperplasia: Mechanical injury or flow induced. *Journal of Vascular Surgery* 15(4): 708-717, 1992.
11. Fujitani R, **Bassiouny HS**, Gewertz BL, Glagov S, Zarins CK. Cryopreserved saphenous vein allogenic homografts: An alternative conduit in lower extremity arterial reconstruction infected fields. *Journal of Vascular Surgery* 15(3):519-26, 1992.

12. Glagov S, **Bassiouny HS**, Masawa N, Giddens DP, and Zarins CK. Induction and composition of intimal thickening and atherosclerosis. *Vascular Medicine*, pp 293-296, 1993. *Proceedings of the 16th World Congress of the International Union of Angiology, Paris, September 1992, 13-18.*
13. **Bassiouny HS**, Zarins CK, Hovanessian A, Glagov S. Heart rate and experimental carotid atherosclerosis. *American College of Surgeons- Surgical Forum* 43:373-375, 1992.
14. Glagov S, Giddens DP, Vito R, **Bassiouny H**, Zarins CK. Tissue reactions to mechanical stresses in relation to artery stability. *Proceedings of The American Society of Mechanical Engineers* 22:135-137, 1992.
15. White SS, Zarins CK, **Bassiouny HS**, Loth F, Glagov S, Giddens DP. Hemodynamic patterns in two models of end-to-side vascular graft anastomoses: Effect of pulsatility, flow division and Reynolds number and Hood length. *Journal Biomedical Engineering* 115:105-111, 1993.
16. Glagov S, Zarins CK, Masawa N, Xu CP, **Bassiouny HS**, Giddens DP. Mechanical functional role of non-atherosclerotic intimal thickening. *Frontiers in Medicine and Biological Engineering* 5:37-43, 1993.
17. **Bassiouny HS**, Krievins D, Zarins CK, Abu-Hamad G, Glagov S. Distal arteriovenous fistula inhibits experimental anastomotic intimal thickening. *American College of Surgeons- Surgical Forum* 44:345-346, 1993.
18. **Bassiouny HS**, Zarins CK, Choi E, Kadowaki M, Glagov S. Hemodynamic stress and experimental aortoiliac atherosclerosis. *Journal of Vascular Surgery* 19(3):426-434, 1994.
19. Glagov, S. Masawa, N., **Bassiouny HS**. and Zarins, C.K. Morphologic bases for establishing endpoints for early plaque detection and plaque instability. *International Journal of Cardiology Imaging* 11(2):97-103, 1995.
20. Glagov S, **Bassiouny HS**, Giddens DP, Zarins CK. Intimal thickening: Morphogenesis, functional significance and detection. *Journal of Vascular Investigation* 1(1):2-14, 1995.
21. **Bassiouny HS**, Lee DC, Zarins CK, Glagov S. Low diurnal heart rate variability inhibits experimental carotid stenosis. *American College of Surgeons- Surgical Forum* 46, 1995.
22. **Bassiouny HS**. Noninvasive evaluation of lower extremity arterial occlusive diagnosis and graft surveillance on lower extremity arterial occlusive disease. In: *Surgical Clinics of North America.*, ed., BL Gewertz, 75(4):593-605, 1995.
23. McKinsey JF, Desai TR, **Bassiouny HS**, Piano G, Spire JP, Zarins CK, Gewertz BL. Mechanisms of neurologic deficits and mortality with carotid endarterectomy. *Archives of Surgery* 131:526-532, 1996.

24. **Bassiouny HS**, Sakaguchi Y, Mikucki S, McKinsey JF, Piano G, Gewertz BL, Glagov S. Juxta-luminal location of plaque necrosis and neof ormation in symptomatic carotid stenosis, *Journal of Vascular Surgery* 29:585-594, 1997.
25. Moawad J, McKinsey JF, Wyble CW, **Bassiouny HS**, Schwartz LB, Gewertz BL. Current results of surgical therapy for chronic mesenteric ischemia. *Archives of Surgery* 132:613-619, 1997.
26. Schwartz LB, Belkin M, Donaldson MC, Knox JB, Craig DM, Moawad J, McKinsey JF, Piano G, **Bassiouny HS**, Whitmore AD. Validation of new and specific intraoperative measurement of vein graft resistance. *Journal of Vascular Surgery* 25(6) :1033-1043, 1997.
27. Loth F, Jones SA, Giddens DP, **Bassiouny H**, Glagov S, Zarins CK. Measurements of velocity and wall shear stress inside a PTFE vascular graft model under steady flow conditions. *Journal of Biomechanical Engineering* 119:187-194, 1997.
28. Glagov S, **Bassiouny HS**, Sakaguchi Y, Gaudet CA, and Vito RP. Mechanical determinants of plaque modeling, remodeling and disruption. *Atherosclerosis* 131: S13-S14, 1997
29. Arslan N, Loth F, **Bassiouny HS**, Jones SA, Glagov S. Turbulence measurements inside an arterio-venous graft under steady flow conditions. *Proceedings of the ASME Summer Bioengineering Conference*, Sunriver, Oregon pp 365-366, 1997.
30. Fortunato JE, Glagov S, **Bassiouny HS**. Irradiation for the Treatment of Intimal Hyperplasia. *Annals of Vascular Surgery* 12(5):495-503, 1998.
31. **Bassiouny HS**, Song RH, Hong XF, Singh A, Glagov S. Flow regulation of 72 KD collagenase IV (MMP-2) after experimental arterial injury. *Circulation* 98(2):157-163, 1998.
32. Piano G, Schwartz LB, Foster L, **Bassiouny HS**, McKinsey JF, Rosenthal D, Gewertz BL. Assessing the outcomes, costs and benefits of emerging technology for minimally invasive saphenous vein in-situ distal arterial bypasses. *Archives of Surgery* 133(6):613-617, 1998.
33. **Bassiouny HS**, Song RH, Kocharyan H, Kins E, Glagov S. Low flow enhances platelet activation after acute experimental arterial injury. *Journal of Vascular Surgery* 27(5):910-8, 1998.
34. French-Sherry E, **Bassiouny HS**, Marcoux M, Pooley TA, Castilla M, Cherney DJ, Lozanski L. Assessing stroke risk with carotid duplex ultrasound scanning. *Journal of Critical Illness* 13(7):448-460, 1998.
35. Fortunato JE, Glagov S, **Bassiouny HS**. Irradiation for the treatment of intimal hyperplasia. *Annals of Vascular Surgery* 12(5):495-503, 1998.
36. Fortunato JE, Glagov S, **Bassiouny HS**. Biomechanical factors as regulators of biological responses to vascular grafts. *Seminars in Vascular Surgery* 12(1):27-37, 1999.

37. Meyerson SL, Moawad J, Loth F, Skelly C, **Bassiouny HS**, McKinsey JF, Gewertz BL, Schwartz LB. Effective hemodynamic diameter: An intrinsic property of vein grafts with predictive value for patency. *Journal of Vascular Surgery* 31(5): 910-917, 2000.
38. Baldwin ZK, Meyerson SL, Skelly CL, McKinsey JF, **Bassiouny HS**, MacDonald RL, Gewertz BL, Schwartz LB. Estimating the contemporary in-hospital costs of carotid endarterectomy. *Annals of Vascular Surgery* 14(3): 210-5, 2000.
39. Song RH, Kocharyan HK, Fortunato JE, Glagov S, **Bassiouny HS**. Increased Flow and Shear Stress Enhance In Vivo Transforming Growth Factor beta-1(TGFb1) After Experimental Arterial Injury. *Arteriosclerosis, Thrombosis & Vascular Biology* 20(4): 923-930, 2000.
40. Xu C, Zarins CK, Pannaraj PS, **Bassiouny HS**, Glagov S. Hypercholesterolemia Superimposed by Experimental Hypertension Induces Differential Distribution of Collagen and Elastin. *Arteriosclerosis, Thrombosis & Vascular Biology* 20(12): 2566-2572, 2000.
41. Xu C, Zarins CK, **Bassiouny HS**, Briggs WH, Reardon C, Glagov S. Differential transmural distribution of gene expression for collagen types I and III proximal to aortic coarctation in the rabbit. *Journal of Vascular Research* 37:170-182, 2000.
42. Fortunato JE, Mauceri HJ, Kocharian H, Song RH, Salloum R, Vosicky J, Swedberg K, Malik S, Abusharif F, Glagov S, Weichselbaum RR, **Bassiouny HS**. Gene therapy enhances the anti-proliferative effect of radiation in intimal hyperplasia. *Journal of Vascular Research* 89:155-162, 2000.
43. Fortunato JE, **Bassiouny HS**, Song RH, Kocharian H, Glagov S, Edelstein C, Scanu AM. Apolipoprotein (a) fragments in relation to human carotid plaque instability. *Journal of Vascular Surgery* 32(3): 555-563, 2000.
44. Desai TR, Meyerson SL, McKinsey JF, Schwartz LB, **Bassiouny HS**, Gewertz BL. Angioplasty does not affect subsequent operative renal artery revascularization. *Surgery* 128(4): 17-725, 2000.
45. Desai TR, Meyerson SL, Skelly CL, MacKenzie KS, **Bassiouny HS**, Katz D, McKinsey JF, Gewertz BL, Schwartz LB. Patency and limb salvage after infra inguinal bypass with severely compromised ("blind") outflow. *Archives of Surgery* 136(6): 635-642, June 2001.
46. Meyerson SL, Skelly CL, Curi MA, Desai TR, Katz D, **Bassiouny HS**, McKinsey JF, Gewertz BL, Schwartz LB. Long-term results justify autogenous infrainguinal bypass grafting in patients with end-stage renal failure. *Journal of Vascular Surgery* 34(1): 27-33, July 2001.
47. Lei M, Giddens DP, Jones SA, Loth F, **Bassiouny HS**. Pulsatile flow in an end-to-side vascular graft model: comparison of computations with experimental data. *Journal of Biomechanical Engineering* 123(1): 80-7, 2001.
48. Kilpatrick D, Gaudet C, Sakaguchi Y, **Bassiouny HS**, Glagov S, Vito R. Effect of plaque composition on fibrous cap stress in carotid endarterectomy specimens. *Journal of Biomechanical Engineering* 123:635-641, 2001.
49. Skelly CL, Meyerson SL, Curi AM, Desai TR, **Bassiouny HS**, McKinsey JF, Gewertz BL, Schwartz LB. Routine early postoperative duplex scanning is unnecessary following uncomplicated carotid endarterectomy. *Vascular and Endovascular*

- Surgery* 36(2): 115-122, 2002.
50. Loth F, Jones SA, Zarins CK, Giddens DP, Nassar RF, Glagov S, **Bassiouny HS**. Relative contribution of wall shear stress and injury in experimental intimal thickening at PTFE end-to-side arterial anastomoses. *Journal of Biomechanical Engineering* 124:44-51, 2002.
  51. Curi MA, Skelly CL, Meyerson SL, Woo DH, Desai TR, McKinsey JF, **Bassiouny HS**, Katz D, Gewertz BL, Schwartz, LB. Conduit choice for above-knee femoropopliteal bypass grafting in patients with limb-threatening ischemia. *Annals of Vascular Surgery* 16:95-101, 2002.
  52. MacKenzie KS, French-Sherry E, Burns K, Pooley T, **Bassiouny HS**. B-mode ultrasound measurement of carotid bifurcation stenoses: is it reliable? *Vascular and Endovascular Surgery* 36(2): 123-135, 2002.
  53. **Bassiouny HS**, Lee DL, Skelly CL, Fortunato JE, Zarins CK, Glagov S. Diurnal heart rate reactivity: a predictor of severity of experimental coronary and carotid atherosclerosis. *Journal of Cardiovascular Risk* 9(6): 331-338, Dec. 2002.
  54. Curi MA, Skelly CL, Woo DH, Desai TR, Katz D, McKinsey JF, **Bassiouny HS**, Gewertz BL, Schwartz LB. Long-term results of infrageniculate bypass grafting using all-autogenous composite vein. *Annals of Vascular Surgery* 16(5): 618-23, Sep. 2002.
  55. Curi MA, Skelly CL, Meyerson SL, Lanahan J, Jayakar D, **Bassiouny HS**, Schwartz L.B. Differential activation of MAPK signal transduction in intact human artery and vein. *Journal of Surgical Research* 108(2): 198-202, Dec. 2002.
  56. Curi MA, Skelly CL, Woo DH, Baron JM, Desai TR, Katz D, McKinsey JF, **Bassiouny HS**, Gewertz BL, Schwartz L.B. Long-term outcome of infra inguinal bypass grafting in patients with serologically proven hypercoagulability. *Journal of Vascular Surgery* 37(2): 301-6, Feb. 2003.
  57. Loth F, Fischer PF, Arslan N, Bertram CD, Lee SE, Royston TJ, Song RH, Shaalan WE, **Bassiouny HS**. Transitional flow at the venous anastomosis of an arteriovenous graft: potential activation of the ERK1/2 mechanotransduction pathway. *Journal of Biomechanics* 125(1): 49-61 Feb. 2003.
  58. Rossi PJ, Skelly CL, Meyerson SL, Curi MA, **Bassiouny HS**, Katz D, McKinsey JF, Schwartz LB, Gewertz BL, Desai TR. Redo infrainguinal bypass: Factors predicting patency and limb salvage. *Annals of Vascular Surgery* 17(5):492-502, 2003.
  59. Shaalan WE, French-Sherry E, Castilla M, Lozanski L, **Bassiouny HS**. Reliability of common femoral artery hemodynamics in assessing the severity of aortoiliac inflow disease. *Journal of Vascular Surgery* 37(5): 960-69, May 2003.
  60. Shaalan WE, Cheng H, Gewertz B, McKinsey JF, Schwartz LB, Katz D, Cao D, Desai TR, Glagov S, **Bassiouny HS**. Degree of carotid plaque calcification in relation to symptomatic outcome and plaque inflammation. *Journal of Vascular Surgery* 40(2): 262-69, August, 2004.
  61. Baldwin ZK, Pearce BJ, Curi MA, Desai TR, McKinsey JF, **Bassiouny HS**, Katz D, Gewertz BL, Schwartz LB. Limb salvage after infra inguinal bypass graft failure. *J Vase Surg* 39(5);951-957, 2004
  62. Grogan JK, Castilla M, Lozanski L, Griffin A, Loth F, **Bassiouny HS**. Frequency of critical stenosis in primary arteriovenous

- fistulae prior to hemodialysis access: Should duplex ultrasound surveillance be the standard of care? *Journal of Vascular Surgery* 41(6):1000-1006, 2005.
63. Grogan JK, Shaalan WE, Cheng H, Gewertz BL, Desai TR, Schwarze ML, Glagov S, Lozanski L, Griffin A, Castilla M, **Bassiouny HS**. B-mode ultrasonographic characterization carotid atherosclerotic plaques in symptomatic and asymptomatic patients. *Journal of Vascular Surgery* 42(3):435-441, 2005.
64. Lee SW, Loth F, Royston TJ, Fischer PF, Grogan JK, **Bassiouny HS**. Flow induced vein wall vibration in an arteriovenous graft. *Journal of Fluids and Structures* 20(6):837-852, August 2005.
65. Yazicioglu, Royston TJ, Spohnholtz T, Martin B, Loth F, **Bassiouny HS**. Acoustic radiation from a fluid-filled, subsurface vascular tube with internal turbulent flow due to a constriction. *Journal of the Acoustical Society of America* 118(2):1193-1209, August 2005.
66. Pearce BJ, Baldwin ZK, **Bassiouny HS**, Gewertz BL, McKinsey JF. Endovascular solutions to complicated aortic repair. *Vascular and Endovascular Surgery* 39(3): 221-228, 2005.
67. Arslan N, Loth F, Bertram CD, **Bassiouny HS**. Transitional flow field characterization inside an arteriovenous graft-to-vein anastomosis under pulsatile flow conditions. *European Journal of Mechanics* 24(3):353-365, May 2005.
68. Lee SW, Smith DS, Loth F, Fischer PF, **Bassiouny HS**. Numerical and experimental simulation of transitional flow in a blood vessel junction. *International Journal of Heat and Mass Transfer*, 51:1-22, 2007.
69. Lee SW, Smith DS, Loth F, Fischer PF, **Bassiouny HS**. Importance of flow division on transition to turbulence within an arteriovenous graft. *Journal of Biomechanics*, 40(5):981-92, 2007.
70. Wahlgren CM, Piano G, Desai TR, Shaalan W, **Bassiouny HS**. Transperitoneal versus retroperitoneal suprarenal cross-clamping for repair of AAA with a hostile infrarenal aortic neck. *Annals of Vascular Surgery* 21(6):687-694, 2007.
71. Loth F, Fischer PF, **Bassiouny HS**. Blood flow in end-to-side anastomoses. *Annual Review of Fluid Dynamics* 40:367-393, 2008.
72. Fischer PF, Loth F, Lee SE, Lee SW, Smith DS, **Bassiouny HS**. Simulation of high Reynolds number vascular flows. *International Journal of Computer Methods in Applied Mechanics and Engineering {CMAME}*, 196:3049-3060, 2007.
73. Wahlgren CM, Skelly CL, Shalhav A, **Bassiouny HS**. Hybrid laparo-robotic debranching and endovascular repair of thoracoabdominal aortic aneurysm. *Annals of Vascular Surgery*, 22:285-289, 2008.
74. Veerapong J, Wahlgren CM, Jolly N, **Bassiouny HS**. Successful percutaneous retrieval of inferior vena cava filter migrating to the right ventricle in a bariatric patient. *Cardiovascular and Interventional Radiology*, 31(Suppl 2):S177-181, 2008.
75. Lee SW, Lee SE, Fischer PF, **Bassiouny HS**, Loth F. Direct numerical simulation of transitional flow in a stenosed carotid bifurcation. *Journal of Biomechanics*, 41(11):2551-2561, 2008.



76. Shaalan WE, Wahlgren CM, Desai TR, Piano G, Skelly CL, **Bassiouny HS**. Reappraisal of internal carotid artery stenosis velocity thresholds utilizing high resolution B-mode ultrasound validated with computed tomography angiography (CTA). *Journal of Vascular Surgery*, 48(1):104-112, 2008.
77. **Bassiouny HS**. Commentary on "Embolization during carotid angioplasty and stenting: What is the optimal method for detecting embolic debris and its sequelae?" *Persp Vasc Surg Endovasc Ther*, 20(3):270-271, 2008.
78. Wahlgren CM, Zheng W, Shaalan W, Tang J, **Bassiouny HS**. Human carotid plaque calcification and vulnerability: Relationship between degree of plaque calcification, fibrous cap inflammatory gene expression and symptomology. *Cerebrovascular Disease* 27(2):193-200, 2009.
79. Zheng W, Grogan J, Cheng H, Wahlgren CM, Glagov S, **Bassiouny HS**. Calcification and carotid plaque vulnerability: Inverse relationship between the degree of calcification and fibrous cap pro-inflammatory gene expression. *Circulation*, submitted for review.
80. Boussel L, Arora S, Rapp J, Rutt B, Huston J, Parker D, Yuan C, **Bassiouny HS**, Saloner D, for the MAPP Investigators. Atherosclerotic plaque progression in carotid arteries: Monitoring with high-spatial-resolution MR imaging-Multicenter Trial. *Radiology* 252(3):789-796, 2009.
81. Wu T, Prema J, Zagaja G, Shalhav A, **Bassiouny HS**. Total laparo-robotic repair of abdominal aortic aneurysm with sac exclusion obliteration and aortofemoral bypass: Case report and review of the literature. *Ann Vase Surg*, Sep-Oct;23(5): 686.e11-6, 2009.
82. Loor G, **Bassiouny HS**, Valentin C, Shao MY, Funaki B, Desai TR. Local and systemic consequences of large retroperitoneal clot burdens. *World J Surg*, 33(8):1617-25, 2009.
83. Loor G, Skelly CL, Wahlgren CM, **Bassiouny HS**, Piano G, Shaalan W, Desai TR. Is atherectomy the best first-line therapy for limb salvage in patients with critical limb ischemia? In Press, *Vascular and Endovascular Surgery*, 2009. 43(6), pp.542-550.
84. Swaminathan, G., Thyagaraj, S., Loth, F., McCormick, S., & **Bassiouny, H.** (2011, June). Influence of Intermittent Pneumatic Compression on Wall Shear Stress and Nitric Oxide Levels. In *ASME 2011 Summer Bioengineering Conference* (pp. 729-730). American Society of Mechanical Engineers

### BOOK EDITORSHIP:

Mercuri M, McPherson DD., **Bassiouny H**, Glagov S. *Non-Invasive Imaging of Atherosclerosis*. Kluwer Academic Publishers, Norwell Massachusetts, 1998.

French Sherry E, **Bassiouny HS**. *Vascular Guide to Non Invasive Vascular Testing and interpretation*, 2011

### BOOK CHAPTERS:

1. Glagov S, **Bassiouny HS**, Massawa N, Ku DN, Vito RP, Giddens DP, Zarins CK. Hemodynamic and structural determinants of human plaque stability. In: *Atherosclerosis VIII*. G Crepaldi, et al (eds). Elsevier Science Publishers B.B., Amsterdam, Holland, 411-415, 1989.
2. Zarins CK, **Bassiouny HS**. Femoral anastomotic aneurysms. In: *Common Problems in Vascular Surgery*. DC Brewster (ed), Yearbook Medical Publishers, Chicago, Illinois, 111-116, 1989.
3. **Bassiouny HS**. Evaluation of the patient with peripheral vascular disease. In: *Principles of Critical Care Medicine*. LDH Wood (ed). McGraw-Hill New York, NY, 302-307, 1990.
4. Glagov S, Giddens DP, **Bassiouny HS**, White S, Zarins CK. Hemodynamic effects and tissue reactions at graft to vein anastomoses for vascular access. *Proceedings of the Symposium on Vascular Access for Hemodialysis*. Williamsburg, May 1990. In: *Vascular Access for Hemodialysis*-. BG Sommer, ML Henry (eds), W.L. Gore and Associates and Precept Press, 3-20, 1991.
5. **Bassiouny HS**, Gewertz BL. Vasculitic disorders and arterial dysplastic lesions. In: *Vascular Surgery: Principles and Practice*. F Veith, R Hobson, R Williams, S Wilson (eds), McGraw-Hill, New York, NY 1991.
6. Glagov S, **Bassiouny HS**, Giddens DP, Zarins CK. Role of mechanical forces in the induction and composition of intimal thickening. In: *The Proceedings of the International Workshop on Vascular Haemodynamics*, 7-13, Oct. 1991.
7. Giddens EM, Giddens DP, White SS, Zarins CK, **Bassiouny HS**, Glagov S. Exercise flow conditions eliminate stasis at vascular graft anastomoses. In: *Biofluid Mechanics-3*. DJ Schneck, CL Lucas (eds), University Press, New York, 255-267, 1991.
8. **Bassiouny HS**, Zarins CK, Glagov S, White S, Giddens DP. Hemodynamic factors in anastomotic intimal hyperplasia. In: *Redo Vascular Surgery. Renal, Aorta-Iliac and Infrainguinal Areas*. C Spartera, R Courbier, P Fiorani, AM Imparato (eds), Serono Symposia Publications from Raven Press, 87:15-27, 1992.
9. Glagov S, **Bassiouny HS**, Giddens DP, Zarins CK. Role of mechanical forces in the induction and composition of intimal thickening. In: *Proceedings at the 3rd International Workshop on Vascular Hemodynamics (Bologna, 1991)* E Borgatti (ed), Centro Scientifico Editore, Bologna. 7-13, 1992.
10. Glagov S, Zarins CK, **Bassiouny HS**, Giddens DP. New understanding of the pathophysiology of the atherosclerotic process: (modeling reactions in human atherosclerotic plaques and the problems arising in relation to clinical evaluations of lesion induction, evaluation and complications), in the ischemic extremity. In: *Advances in Treatment*, JST Yao, W Pearce (eds), Appleton and Lange, Norwalk, Conn. 13-24, 1995.
11. **Bassiouny HS**. Effect of stress and flow patterns on the formation of atherosclerotic plaques. In: *Vascular*

*Surgery: Theory and Practice*. AD Callow, CB Ernest (eds), Appleton and Lange Publications, Stamford, CT, 1237-1246, 1995.

12. **Bassiouny HS**. Non-invasive evaluation of lower extremity arterial occlusive disease and graft surveillance. In: *Surgical Clinics of North America on lower extremity arterial occlusive disease*. BL Gewertz (ed), 75(4):593-605, 1995.
13. Glagov S, **Bassiouny HS**, Giddens DP, Zarins CK. Pathobiology of plaque modeling and complication. In: *Surgical Clinics of North America*. 75(4):545-546, 1995.
14. Zarins CK, **Bassiouny HS**, Glagov S. Intimal hyperplasia. In: *Haimovici's Vascular Surgery, 4th edition*. H Hamovici, E Ascer, LH Hollier, DE Strandness, JD Towne (eds). Blackwell Science, Inc., Boston, MA, 678-687, 1996.
15. Glagov S, Sakaguchi Y, **Bassiouny HS**, Giddens DP, Zarins CK. Watching the risks in atherosclerosis: Problems arising with regard to early lesion detection, estimation of plaque progression and evaluation of plaque instability in current status of atherosclerosis: From arterial wall thickening to clinical symptoms. Parthenon Publishing, New York, New York, 1996.
16. Glagov S, **Bassiouny HS**, Masawa N, Sakaguchi Y, Giddens DP, Zarins CK. Cerebrovascular disease: A pathologists view. In: *Syndromes of Atherosclerosis: Correlations of Clinical Imaging*. V Fuster (ed). Futura Publishing Company, Armonk, NY, 161-180, 1996.
17. **Bassiouny HS**. Non-occlusive mesenteric ischemia. In: *Surgical Clinics of North America*, W.B. Saunders Company, Philadelphia, PA, 77(2):319-326, 1997.
18. Glagov S, **Bassiouny HS**. Restenosis: prevention of a complete stabilizing remodeling response following direct interventions on plaques. In: *Arterial Remodeling a Critical Factor in Restenosis*. A Lafont, EJ Topol (eds), Kluwer Academic Publishers, Norwell MA, 3-20, 1997.
19. **Bassiouny HS**, Sakaguchi Y, Glagov S. Carotid atherosclerosis from induction to complication. In: *Non-Invasive Imaging of Atherosclerosis*. M Mercuri, DD McPherson, Bassiouny HS, S Glagov (eds). Kluwer Academic Publishers, Norwell MA, 3-25, 1998.
20. **Bassiouny H**, Sakaguchi Y, Gaudet CA, Vito R, Glagov S. Pathobiology of symptomatic carotid atherosclerosis. In: *The Vulnerable Atherosclerotic Plaque: Understanding, Identification, and Modification*. V Fuster (ed), Future Publishing Company, Inc., Armonk, NY, 1998.
21. Fortunato JE, **Bassiouny HS**. Surgical treatment of mesenteric occlusive disease: Mesenteric endarterectomy. In: *Surgery of the Aorta and Its Branches*. BL Gewertz, LB Schwartz (eds), W.B. Saunders Company, 2000.
22. Glagov S, **Bassiouny HS**, Zarins CK, Sleser A. Morphogenesis of the atherosclerotic plaque. In: *Cerebrovascular Ultrasound: Theory, Practice and Future Developments*. M Hennerici, S Meaurs (eds). Cambridge University Press, Cambridge, 117-133, 2001.
23. Glagov S, Ko C, **Bassiouny HS**, Zarins CK. Principles of Vascular Remodeling. In: *PanVascular Medicine, Integrated Clinical Management*. P Lanzer, E Topol (eds), Springer Verlag, Berlin, Heidelberg, New York, 232-241, 2002.
24. Katz D, Shaalan WE, **Bassiouny HS**. "One-stop" shopping for hemodialysis access. In: *Vascular Access for*

- Hemodialysis VIII*. Access Medical Publishing and WL Gore and Associates, 2002; 237-248.
25. Grevious MA, Loth F, Jones SA, Arslan N, Curi MA, Schwartz LB, Bassiouny HS. Technical considerations in the construction of vascular anastomoses. In: *Biomedical Technology and Devices Handbook*. J Moore and G Zouridakis (eds), CRC Press LLC, 24:1-19, 2004.
  26. Bassiouny HS and BL Gewertz. Vasculitis and dysplastic arterial lesions. In: *Vascular Surgery: Principles and Practice*. Third Edition. Ed. RW Hobson, SE Wilson and FJ Veith. Marcel Dekker, Inc., New York, NY, 915-928, 2003.
  27. Desai TR, Bassiouny HS. Diagnosis and treatment of non-occlusive mesenteric ischemia. In: *Vascular Surgery*. Sixth Edition. Ed. RB Rutherford. Elsevier, Philadelphia, PA, 1728-1731, 2005.
  28. Schwarze ML, Grogan JK, **Bassiouny HS**. Alternate Imaging for carotid occlusive disease. In: *NoInvasive Vascular Diagnosis*. N Labropoulos, A Mansour (eds), Elsevier, 2005.
  29. Heather Hall, **Bassiouny HS**, Pathophysiology of the Carotid Plaque, In: Ultrasound and Carotid Atherosclerosis. A Nicolaidis, K Beach, C Pattichis, E Kyriakou (eds), Springer 2011.
  30. Shao M, **Bassiouny HS**, NonOcclusive Mesenteric Ischemia, In: *Current Therapy in Vascular and Endovascular Surgery*, F Veith, J Stanley (eds) Elsevier, 2011\_in preparation
  31. Heather Hall, **Bassiouny HS**, CTA/MRA of the Carotids, In *Non Invasive Vascular Diagnosis: A Practical Guide to Therapy*, A AbuRahma, D Bandyk (eds), Springer 2011.
  32. **Bassiouny HS** and AbuRahma A, Computed tomography angiography and MRI of the extracranial carotid arteries in Non- Invasive Vascular Diagnosis, 3<sup>rd</sup> Edition, Eds; Abu Rahma and Bandyk. Springer Verlag 2013.
  33. **Bassiouny HS**. NonOcclusive Mesenteric Ischemia in *Current Therapy Vascular and Endovascular Surgery, 5<sup>th</sup> Edition*, Eds; Stanley, Veith and Wakefield, Saunders 2014.
  34. **Bassiouny HS**. Section Editor, Carotid Disease in Vascular Reference Guide, 1<sup>st</sup> Edition. Eds; Size, Lozanski and Russo, Inside Ultrasound 2014.
  35. **Bassiouny HS**. Upper Extremity Revascularization distal to the Brachiocephalic Trunk: in *Endovascular Open Vascular intervention. A casebased approach*, CRC press 2016.
  36. Blair K, **Bassiouny HS**. Ch 160, Axillofemoral bypass. 3rd edition of *Operative Dictations in General and Vascular Surgery*
  37. Blair K, Bassiouny HS. Ch 162, Retroperitoneal Aorto-femoral bypass. 3rd edition of *Operative Dictations in General and Vascular Surgery*, Springer 2016.
  38. Blair K, Bassiouny HS. Ch 163, Thoracofemoral bypass. 3rd edition of *Operative Dictations in General and Vascular Surgery*. Springer 2016.

### ABSTRACTS:

1. **Bassiouny HS**, Lieber BB, Lieber DP, Xu CP, Glagov S, Zarins CK. Differential effect of wall shear stress on intimal thickness in critical and subcritical stenoses. *Arteriosclerosis* 8(5):617a, 1988, and *Circulation* 78(4):11394, 1988.
2. Massawa N, Glagov S, **Bassiouny HS**, Zarins CK. Intimal thickness normalizes mural tensile stress in regions of increased intimal area and artery size at the carotid bifurcation. *Arteriosclerosis* 8(5):621a, 1988.
3. Glagov S, **Bassiouny HS**, Massawa N, Ku DN, Vito RP, Giddens DP, Zarins CK. Hemodynamic and structural determinants of human plaque stability. *Biology of the artery wall- Satellite Meeting, 8th International Symposium on Atherosclerosis*- Sienna, October 7-8, pg 33, 1988.
4. **Bassiouny HS**, White S, Zarins CK, Giddens DP, Glagov S. Anastomotic intimal thickening in end- to-end arterial anastomoses. *Cardiovascular Science and Technology: Basic & Applied*://. Louisville, KY, 1990.
5. Giddens DP, Zarins CK, Giddens EM, **Bassiouny HS**. Exercise flow affects hemodynamics of end-to-side vascular graft models. *Cardiovascular Science and Technology: Basic & Applied I*. Louisville, KY, 1990.
6. Hay R, Casalino D, **Bassiouny HS**, Ryan J, Williams K, Atcher R, Brechbiel M, Gansow O, Lathrop K, Fleming R, Stark V, Harper P. *In vivo* accumulation of indium-111-[scn-bz-dtpa]-low density lipoprotein by experimental aortic lesions. *Cardiovascular Science and Technology: Basic & Applied: II*. Louisville, Kentucky, 1990.
7. Levine L, **Bassiouny HS**. Measurement of venogenic impotence by penile duplex ultrasonography. *Journal of Urology* 143:211A, 1990.
8. Glagov S, Zarins CK, **Bassiouny HS**, Giddens D. Mechanical determinants of intimal thickening: Molecular mechanisms of vascular diseases. *Journal of Cellular Biochemistry* (supplement 1/91).
9. **Bassiouny HS**, Loth F, Giddens DP, Jones S, Glagov S, Zarins CK. Measurement of wall shear in an end-to-side vascular anastomosis model: correlation with experimental intimal thickening. The Cardiovascular Science and Technology Conference, December, 1991.
10. Loth F, Jones SA, **Bassiouny HS**, Giddens DP, Zarins Ck, Glagov S. Laser Doppler velocity measurements inside a vascular graft model under steady flow conditions. ASME Breckenridge, CO, *Bioengineering Conference Proceedings*, NA Lagrana, MH Friedman, ES Grood, eds, BED 24:48-51, 1993.
11. Loth F, Jones SA, **Bassiouny HS**, Giddens DP, Zarins CK, Glagov S. A correlative study of intimal thickening and wall shear stress inside a canine vascular graft model. ASME, WAM, San Francisco, CA, *Advances in Bioengineering*, ML Hull, ed, BED 31:167-168, 1995.
12. Loth F, Jones SA, Giddens DP, **Bassiouny HS**, Glagov S, Zarins CK. Wall shear stress measurements inside a vascular graft model under pulsatile flow conditions. ASME Beaver Creek, CO, *Proceedings of the 1995 Bioengineering Conference*, RM Hochmuth, NA Langrana, M Hefzy, eds, BED 29:9-10, 1995.

13. **Bassiouny HS**, Song RH, Hong XF, Singh A, Glagov S. Reduced flow enhances *in vivo* collagenase IV transcription after arterial injury. 69th Scientific Session, American Heart Association, New Orleans, LA., November 10-13, *Circulation* 1996.
14. **Bassiouny HS**, Song RH, Kocharyan HK, Glagov S, Weichselbaum RR. Egr-1 is upregulated by reduced flow in the injured rabbit carotid artery. *Circulation* 96(8S) Suppl. 5481-5491, 1997.
15. Glagov S, **Bassiouny HS**, Sakaguchi Y, Gaudet CA, Vito RP. Mechanical determinants of plaque modeling, remodeling and disruption. *Atherosclerosis*, 131(Suppl.):S13-S14, 1997.
16. Lei M, Giddens DP, Jones SA, Loth F, **Bassiouny HS**. Computational flow simulation in a distal anastomosis in comparison with LDA measurements. *Annals of Biomedical Engineering*, 25(Suppl. 1):S-21, 1997
17. Arslan N, Loth F, **Bassiouny HS**, Jones SA, Glagov S. Turbulence measurements inside an arterio-venous graft under steady flow conditions. *Proceedings of the ASME Summer Bioengineering Conference*, Sunriver, Oregon, 365-366, 1997.
18. Schwartz LB, McKinsey JF, **Bassiouny HS**. New initiatives in minimally invasive vascular surgery. *Clinical Comment* 3-6, 2000.
19. Fischer PF, Arslan N, **Bassiouny HS**, Lee S, Loth F. Comparison of experimental and numerical simulations, Proceedings of the 2000 Bioengineering Conference ASME, BED-Val. 48, *Advances in Bioengineering*, TA Conway (ed), 275-276, Nov. 2000.
20. Piersol NE, Lee S, Kalata W, Loth F, Fischer PF, Alperin N, **Bassiouny HS**. Automated simulation of velocity and wall shear stress patterns inside a healthy carotid bifurcation. *Proceedings of the 2001 Bioengineering Conference*, BED 50:449-450, RD Kamm, JW Schmid-Schnbein, GA Ateshian, MS Hefsy, eds, Snowbird, UT, June 2001.
21. Lee SW, Loth F, Royston TJ, Fischer PF, Shaalan WE, **Bassiouny HS**. Turbulence induced vein-wall vibration may play a role in arteriovenous dialysis graft failure. *Proceedings of the World Congress on Biomechanics*, Calgary, Canada, August, 2002.
22. Grogan JK, Castilla M, Lozanski L, Griffin A, Loth F, **Bassiouny HS**. Frequency of critical stenosis in primary arteriovenous fistulae before hemodialysis access: should duplex ultrasound surveillance be the standard of care? *Proceedings of the 58th Annual Meeting of the Society for Vascular Surgery*, Anaheim, CA, June 5, 2004.
23. Lee SW, Loth F, Royston PF, Fischer PF, **Bassiouny HS**, Grogan JK. Flow induced vein wall vibration in an arteriovenous graft. *Proceedings of the 8th International Conference on Flow Induced Vibration*, Langre & Axisa Editors, Ecole Polytechnique, Paris, France, July 6-9, 2004
24. Lee SW, Loth F, Fischer PF, Grogan JK, **Bassiouny HS**. Fluid dynamics in a hemodialysis graft. *Proceedings of the ASME International Mechanical Engineering Congress*, Anaheim CA, November, 2004.
25. Smith D, Loth F, **Bassiouny HS**, Fischer PF, Grogan JK, Lee SL. Velocity measurements inside a hemodialysis graft in vitro model. *Proceedings of the ASME International Mechanical Engineering Congress*, Anaheim, CA, November, 2004.

## CURRICULUM VITAE – Bassiouny Hisham

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26. Spohnholtz T, Royston TJ, Yazicioglu Y, Martin B, Loth F, **Bassiouny HS**. A multimode sonic & ultrasonic diagnostic imaging system with application to peripheral vascular characterization. *Proceedings of the 149th Meeting of the Acoustical Society of America*, Vancouver, BC, Canada, May, 2005.
27. Yazicioglu Y, Royston TJ, Spohnholtz T, Martin B, Loth F, **Bassiouny HS**. Coupled vibration and sound radiation from a fluid-filled and submerged or embedded vascular tube with internal turbulent flow due to a constriction. *Proceedings of the 149th Meeting of the Acoustical Society of America*, Vancouver, BC, Canada, May, 2005.
28. Fischer PF, Loth F, Lee SW, Smith DS, Tufa H, **Bassiouny HS**. Parallel simulation of high Reynolds number vascular flows. *Proceedings of the International Conference on Parallel Computational Fluid Dynamics*, Washington, DC, May 2005.
29. Lee SW, Smith DS, Loth F, Fischer PF, Grogan JK, **Bassiouny HS**. Direct numerical simulations of transition to turbulent flow in a subject-specific arteriovenous graft. *Proceedings of the Summer Bioengineering Conference*, Vail, CO, June 2005.
30. Lee SW, Smith DS, Loth F, Fischer PF, **Bassiouny HS**. Importance of flow division on the transitional flow environment within a subject-specific arteriovenous graft. *Proceedings of the Summer Bioengineering Conference*, Amelia Island, FL, June 2006.

## PRESENTATIONS

### INVITED LECTURES and GRAND ROUNDS

1. Hemodynamic factors in anastomotic intimal hyperplasia. Symposium on Redo Vascular Surgery, L'Aquila, Italy, June 24-27, 1992.
2. Hemodynamic factors in atherogenesis and intimal hyperplasia. Linz General Hospital, Linz, Austria, June 29, 1992.
3. Hemodynamic factors in anastomotic intimal thickening. German Society of Angiology, Augsburg, Germany. September 4, 1992.
4. The management and treatment of extracranial carotid occlusive disease. Scientific Congress of the North African and Middle Eastern Chapter of the International Society for Cardiovascular Surgery, Cairo, Egypt, October 20-23, 1992.
5. Penile duplex ultrasonography in the diagnosis of vasculogenic impotence. Scientific Congress of the North African and Middle Eastern Chapter of the International Society for Cardiovascular Surgery, Cairo, Egypt, October 20-23, 1992.
6. Current Management of Carotid Occlusive Disease. Symposium on the Early Diagnosis and Management of Vascular Disorders. Al Azhar University, Cairo, Egypt, 1996.
7. Renovascular hypotension. Symposium on the Early Diagnosis and Management of Vascular Disorders. Al Azhar University, Cairo, Egypt, 1996.
8. Heart rate, shear stress, atherogenesis and plaque rupture: is there a link? Satellite Symposium, 19th Congress of the European Society of Cardiology, Stockholm, Sweden, August 24-28, 1997.

9. Surgery versus angioplasty and stenting in carotid occlusive disease. 16th Annual Meeting of the Egyptian Society of Surgeons, Cairo, Egypt, February 25-27, 1998.
10. Contemporary management of mesenteric arterial occlusive disease. 16th Annual Meeting of the Egyptian Society of Surgeons, Cairo, Egypt, February 25-27, 1998.
11. Essentials of endovascular surgery. First Arab Meeting of Angiology and Vascular Surgery, Egyptian Society of Angiology and Vascular Surgery, Hurghada, Red Sea, Egypt, June 24-27, 1998.
12. Mechanisms underlying restenosis after carotid angioplasty. First Arab Meeting of Angiology and Vascular Surgery, Egyptian Society of Angiology and Vascular Surgery, Hurghada, Red Sea, Egypt, June 24-27, 1998.
13. Molecular mechanisms underlying flow regulation of intimal Hyperplasia. Second Workshop on Hemodynamic Forces and Vascular Biology organized by INSERIM. Paris, France, January 1999.
14. Concurrent diagnostic arteriography and bypass for infrainguinal arterial occlusive disease. Second Annual Meeting of the Egyptian Society for Vascular and Endovascular Surgery, Cairo Egypt, June, 1999.
15. Grading of carotid stenoses: what is the gold standard. University of Chicago Symposium on Advances in Non Invasive Diagnosis, Chicago, IL, September, 1999.
16. The unstable carotid plaque. Chicago Vascular Forum, Chicago, IL, August, 2000.
17. Mechanisms of bypass graft failure. Chicago Vascular Forum, Chicago, IL, August 2000.
18. Imaging the vulnerable plaque. Second Annual Symposium, The Center for Vascular Imaging Research. The John P. Roberts Research Institute. London, Canada, October, 2000.
19. Duplex ultrasound imaging prior to carotid endarterectomy. Chicago Area Vascular Association, South Suburban Hospital, May 2002.
20. "One stop shopping" for hemodialysis access. Seventh International Symposium on Vascular Access for Hemodialysis Access. Palm Springs, Arizona, May 2002.
21. Role of the non invasive vascular lab in the care of the hemodialysis access patient. Chicago Area Vascular Association Meeting, Loyola University, Chicago, IL, October 2002.
22. Carotid intervention: Role of operative versus endovascular procedures. The Sixth Congress of the Middle East and North African Chapter of the International Society for Cardiovascular Surgery, Cairo, Egypt, October 23-28 2002.
23. "One stop shopping" for lower extremity revascularization. The Sixth Congress of the Middle East and North African Chapter of the International Society for Cardiovascular Surgery, Cairo, Egypt, October 23-28, 2002.
24. Carotid artery stenting: fact or fiction. Department of Cardiothoracic and Vascular Surgery Grand Rounds, University of Texas Medical School, Houston, December 2002.
25. Indications for carotid stenting and endarterectomy. ISCVS, Alexandria, Egypt, 2003.
26. Carotid plaque calcification and clinical events. ISCVS, Alexandria, Egypt, 2003.
27. Biomechanical forces and venous intimal hyperplasia in hemodialysis AV grafts. Illinois Institute of Technology, Chicago, IL, 2003.



28. Structural and imaging features of the unstable carotid plaque. Neurology Grand Rounds, University of Chicago, Chicago, IL, 2003.
29. Intervention for the vulnerable carotid plaque. Cardiology Grand Rounds, University of Chicago, Chicago, IL, 2004.
30. Minimally invasive interventions for carotid occlusive disease and aortic aneurysms. Chicago Medical Society, Chicago, IL, 2005.
31. Calcification and the vulnerable carotid plaque. Research Initiatives in Vascular Disease (SVS/NHLBI Annual Meeting, Washington, DC, 2005
32. Use of B-mode ultrasound to characterize carotid plaques in symptomatic and asymptomatic patients. 14th National Non-Invasive Vascular Symposium, St Louis, 2005.
33. Early duplex imaging of AV fistulae identifies unsuspected stenosis. 14th National Non-Invasive Vascular Symposium, St Louis, 2005.
34. B-mode ultrasound characterization of the vulnerable carotid plaque. Society for Vascular Ultrasound, Chicago, IL, 2005.
35. Utility of duplex ultrasound in early surveillance of AV access. Society for Vascular Ultrasound, Chicago, IL, 2005.
36. Abdominal aortic aneurysms: Pathogenesis and treatment. Surgery Grand Rounds, The University of Chicago, Chicago, IL, 2005.
37. The role of duplex ultrasound in assessing carotid plaque instability. VEITH Symposium, New York, NY 2005.
38. Duplex ultrasound surveillance of de novo arteriovenous fistulae. VEITH Symposium, New York, NY, 2005.
39. Patient selection for carotid artery stenting. Medical Grand Rounds, Louis A. Weiss Memorial Hospital, Chicago, IL, 2006.
40. Minimally invasive intervention for aortic aneurysms: Utility of laparo-robotic techniques. Chicago Medical Society, Chicago, IL, 2006.
41. Evolution of abdominal aortic aneurysm management. Egyptian Vascular Society, El Sukhna, Egypt, 2006.
42. Indications for carotid artery stenting. Egyptian Vascular Society, El Sukhna, Egypt, 2006.
43. Intervention for carotid stenosis. A balanced approach. 5th International Vascular and Endovascular Congress, Bibliotheca Alexandrina, 2006.
44. Management of carotid artery disease: Relevance of plaque structure. Rush University Surgical Grand Rounds, 2006.
45. Hybrid procedures for complex aortic aneurysms. 5th International Vascular and Endovascular Congress, Bibliotheca Alexandria, 2006.
46. Advances in lower extremity revascularization. Middle East and North African Society for Vascular Surgery, Aswan,

Egypt 2007.

47. Reappraisal of internal carotid stenosis velocity thresholds: Do current criteria overestimate carotid bifurcation disease. 15th National Symposium/ Non- Invasive Diagnosis of Vascular Disease, St Louis, MO, 2007.
48. Role of grey scale median in the management of patients with asymptomatic carotid disease. 15th National Symposium/ Non-Invasive Diagnosis of Vascular Disease, St Louis, MO 2007.
49. Hemodynamic therapy in peripheral arterial disease restenosis. Research Initiatives in Vascular Disease (SVS/NHLBI) Annual Meeting, Washington, DC, 2007.
50. Management of carotid artery disease: It's the plaque that counts. Department of Surgery Grand Rounds, The University of Chicago, May 9, 2007.
51. Laparo-robotic-assisted aortoiliac reconstruction: Early experience and lessons learned. Department of Surgery Grand Rounds, The University of Chicago, March 26, 2008.
52. Management of Carotid Artery Disease and Beyond, Weiss Internal Medicine Grand Rounds, Chicago, October 2008
53. Techniques to enhance AV graft patency. 33rd Annual Northwestern Vascular Symposium. Chicago, IL, December 11, 2008.
54. Minimally invasive advances in treating carotid artery disease and aortic aneurysms. Ninth Annual Cardiac Rehab Educational Seminar, Louis A. Weiss Memorial Hospital, Chicago, IL, February 12, 2009.
55. What are optimum reporting standards for carotid duplex ultrasound? St. John's Mercy Medical Center 16th National Symposium on Noninvasive Diagnosis of Vascular Disease, St. Louis, MO, February 26-28, 2009.
56. Gray scale median analysis as a tool in selecting patients for carotid artery stenting. St. John's Mercy Medical Center, 16th National Symposium on Noninvasive Diagnosis of Vascular Disease, St. Louis, MO, February 26-28, 2009.
57. Hemodynamics of AV grafts: Can they be improved to prevent venous outflow stenosis? St. John's Mercy Medical Center 16th National Symposium on Noninvasive Diagnosis of Vascular Disease, St. Louis, MO, February 26-28, 2009.
58. Hemodynamics of peripheral arterial disease and restenosis. Endovascular Surgery: Bringing Basic Science into Clinical Practice. Stockholm, Sweden, March 20, 2009.
59. Management of Carotid Artery Disease "Beyond the Stenosis Threshold", Grand Rounds, Vascular Surgery, University of Nebraska, May 2009.
60. Carotid Plaque Morphology "Going beyond the Stenosis". Vascular Annual Meeting /SVU Joint Session, Denver, June 2009.
61. Criteria for Carotid Stenosis and Plaque Characteristics, Northwestern Vascular Symposium, December, 2009
62. Current Management of Carotid Occlusive Disease" Stenosis vs Plaque Structure", Neurosurgery Grand Rounds, University of Chicago, February 2010.
63. Role of Grey Scale Median Analysis in the assessment of carotid Plaque Vulnerability and selection of patients for Carotid Artery Stenting 6th Annual Meeting of the Vascular Society of Egypt 3/2010.

64. Hybrid Repair of Thoracoabdominal aneurysms, Role of Visceral De-branching and Endovascular Aneurysm Repair. University of Chicago Grand Rounds, April 2010.
65. Contemporary Evaluation of Carotid Bifurcation Occlusive Disease, 7th Annual Vascular Society of Egypt, January 2011
66. Current Management of Type IV Thoracoabdominal Aneurysms, Annual Vascular Society of Egypt, January 2011.
67. Duplex Criteria for carotid Stenosis" Where do we stand", 16th National Symposium on Noninvasive Diagnosis of Vascular Disease, St. Louis, MO, March, 2011.
68. Value of Routine Duplex Ultrasound Surveillance in De Novo Arterial Venous Fistulae, 16th National Symposium on Noninvasive Diagnosis of Vascular Disease, St. Louis, MO, March, 2011.
69. Carotid Plaque Calcification and Stroke: Erasmus University, 11/2016
70. Structural Composition of Carotid Bifurcation Plaques: Relevance in Decision making for Carotid Intervention: Egyptian Society for Vascular Surgery, September 2022

### **POSTERS AND PRESENTATIONS at INTERNATIONAL, NATIONAL, REGIONAL, AND LOCAL SOCIETIES and CONFERENCES (Co-presenter or mentor):**

1. Clark E, Gewertz BL, **Bassiouny HS**, Zarins CK. Aortic reconstruction for aneurysmal and occlusive disease. XIX World Congress, International Society for Cardiovascular Surgery, Toronto, Sept. 6-9, 1989.
2. White SS, Giddens DP, Zarins CK, **Bassiouny HS**, Glagov S. Flow behavior in a model of an end-to-side vascular graft. Northeast Bioengineering Conference Meeting, Pennsylvania, March 1990.
3. Glagov S, **Bassiouny HS**, Giddens DP, Zarins CK. Morphology and morphogenesis of adaptive and reactive human intimal thickening. First World Congress of Biomechanics, August, 1990.
4. Giddens DP, Zarins CK, Lieber B, **Bassiouny HS**, Glagov S. Observed relationships between intimal thickening and wall shear. First World Congress of Biomechanics, August, 1990.
5. White S, Giddens DP, Zarins CK, **Bassiouny HS**, Glagov S. Steady and pulsatile flow visualization studies in vascular graft models. First World Congress of Biomechanics, August, 1990.
6. Fujitani R, **Bassiouny HS**, Gewertz BL, Zarins CK. Cryopreserved saphenous vein allogeneic homografts: An alternative conduit in lower extremity arterial reconstruction in infected fields. Midwestern Vascular Surgical Society, Toledo, OH, 1990.
7. Fujitani R, Gewertz BL, **Bassiouny HS**, Zarins CK. Use of cryopreserved human saphenous vein allografts in femorodistal arterial reconstructions. Coller Surgical Society, October, 1990.
8. Levine L, **Bassiouny HS**. Measurement of venogenic impotence by penile duplex ultrasonography. American Urologic Association, North Central Section, Chicago, IL Sept. 1989, and New Orleans, LA, May, 1990.

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9. Giddens DP, Zarins CK, Giddens EM, **Bassiouny HS**. Exercise flow affects hemodynamics of end-to-side vascular graft models. *Cardiovascular Science and Technology: Basic & Applied*, II. Louisville, KY, 1990.
10. Glagov S, **Bassiouny HS**, Giddens DP, Zarins CK. Role of mechanical forces in the induction and composition of intimal thickening. Third International Workshop on Vascular Hemodynamics, October, 1991.
11. Figueras C, Jones SA, Giddens DP, Zarins CK, **Bassiouny HS**, Glagov S. Relationship between flow patterns and geometry in end to side anastomotic grafts. American Society of Mechanical Engineers Winter Annual Meeting, December, 1991.
12. Loth F, **Bassiouny HS**, Jones SA, Giddens DP, Glagov S, Zarins CK. Velocity and wall shear measurements in an end-to-side vascular anastomosis model. The NATO Advances Study Institute on "Frontiers in Cardiovascular Engineering", Spain 1992.
13. Loth F, Jones SA, Giddens DP, Zarins CK, Bassiouny HS. Measurement of velocity and wall shear in a vascular graft model and the relationship to intimal thickening in a canine model. Association for the Advancement of Medical Instrumentation Cardiovascular and Technology Conference, Bethesda, MD, 1992.
13. Glagov S, **Bassiouny H**, Giddens DP, Zarins CK. Induction and composition of intimal thickening and atherosclerosis. The Symposium on Early Arterial Wall Lesions, September 17, 1992.
14. Loth F, Jones SA, Giddens DP, Zarins CK, **Bassiouny HS**. Velocity measurements in a vascular graft model. 2nd World Congress of Biomechanics, Amsterdam, The Netherlands, 1994.
15. Giddens DP, Loth F, Jones SA, Zarins CK, Bassiouny HS. Fluid dynamics of end-to-side vascular grafts. 2nd World Congress of Biomechanics, Amsterdam, The Netherlands, 1994.
16. Xu C, Glagov S, Briggs, WH, Reardon C, **Bassiouny HS**, Zarins CK. Early localization of type I procollagen gene expression, collagen accumulation and cell proliferation in acute experimental hypertension. *Circulation*. October 1994.
17. Moawad J, McKinsey JF, Piano G, **Bassiouny HS**, Gewertz BL, Schwartz LB. Validation of a new and specific intraoperative measurement of vein graft resistance. Third Annual Charles Huggin Research Conference, Chicago, IL, May 18, 1996.
18. Moawad J, McKinsey JF, Piano G, **Bassiouny HS**, Gewertz BL, Schwartz LB. Validation of a new and specific intraoperative measurement of vein graft resistance. Fifteenth Annual Chicago Vascular Research Forum, Chicago, IL, May 29, 1996.
19. Loth F, Jones SA, Giddens DP, Zarins CK, **Bassiouny HS**. Fluid mechanics and vascular graft failure. Special Workshop in Hemodynamics and Bypass Graft Intimal Hyperplasia, ASME/AICHE/ASCE Summer Bioengineering Conference, June 1997.
20. Arslan N, Loth F, **Bassiouny HS**. Quantification of turbulence inside a human arterio-venous graft under steady flow conditions. 17th Southern Biomedical Engineering Conference, San Antonio, TX, February 1998.
21. Song RH, **Bassiouny HS**, Kocharyan HK, Glagov S. Flow regulation of transforming growth factor beta (TGF $\beta$ ) after experimental arterial injury. SVS/NA- ISCVS 46th Joint Annual Meeting, San Diego, CA, June, 1998.

22. **Bassiouny HS**, Kocharyan HK, Song RH, Glagov S. Arterial geometry and *in vivo* chronic upregulation of EGRI mRNA. SVS/NA- ISCVS 46th Joint Annual Meeting, San Diego, CA, June, 1998.
23. Kocharyan HK, **Bassiouny HS**, Schwartz LB, Song RH, Vosicky JE, Glagov S. Mean and oscillatory flow in the regulation of platelet activation after experimental arterial injury. Midwestern Vascular Surgical Society, 22nd Annual Meeting, Dearborn, MI, September, 1998.
24. Meyerson SL, Moawad J, McKinsey JF, **Bassiouny HS**, Gewertz BL, Schwartz LB. The effect of conduit diameter on infra inguinal vein graft patency (poster). Society for Vascular Surgery, 1999.
25. Baldwin ZK, Meyerson SL, McKinsey JF, **Bassiouny HS**, Macdonald RL, Gewertz BL, Schwartz LB. Estimating the contemporary in-hospital costs of carotid endarterectomy. Ninth Annual Winter Meeting of the Peripheral Vascular Surgery Society, Snowbird, UT, January 15, 1999.
26. Schwartz LB, **Bassiouny HS**, Gewertz BL, McKinsey JF, Meyerson SL, Moawad J. The effect of conduit diameter on infra inguinal vein graft patency. Sixth Annual Charles Huggins Research Conference, Chicago, IL, May 22, 1999.
27. Meyerson SL, Moawad J, McKinsey JF, **Bassiouny HS**, Gewertz BL, Schwartz LB. Significance of the effective hemodynamic diameter of infra inguinal bypass grafts. Midwest Vascular Surgical Society, Chicago, IL, September 25, 1999.
28. **Bassiouny HS**, Lee C, Skelly CL, Fortunato JE, Glagov S, Zarins CK. Heart rate reactivity as a predictor of the severity of experimental carotid stenosis. Poster- Society for Vascular Surgery 54th Annual Meeting, Toronto, Ontario Canada, June 11, 2000.
29. Desai TR, Meyerson SL, Skelly CL, McKinsey JF, Schwartz LB, **Bassiouny HS**, Gewertz BL. Angioplasty does affect subsequent operative renal artery revascularization. Central Surgical Association, 2000.
30. Meyerson SL, Skelly CL, Desai TR, Katz D, McKinsey JF, **Bassiouny HS**, Gewertz BL, Schwartz LB. Long-term results justify autogenous infra inguinal bypass grafting in patients with end-stage renal failure. Midwestern Vascular Surgical Society, 24th Annual Meeting, Scottsdale AZ, November 6, 2000.
31. Desai TR, Schwartz LB, Meyerson SL, Skelly CL, **Bassiouny HS**, Katz D, McKinsey JF, Gewertz BL. Patency and limb salvage rates in infrainguinal bypass with severely compromised ("blind") outflow. Fredrick A Collier Surgical Society, Ann Arbor, MI, October 19-22, 2000.
32. Desai TR, Meyerson SL, Skelly CL, MacKenzie KS, **Bassiouny HS**, Katz D, McKinsey JF, Gewertz BL, Schwartz LB. Patency and limb salvage after infra inguinal bypass with severely compromised ("blind") outflow. Western Surgical Association, Dana Point, California, November 14, 2000.
33. Skelly CL, Meyerson SL, McKinsey JF, **Bassiouny HS**, Gewertz BL, Schwartz LB. Routine early post-operative duplex scanning is unnecessary following uncomplicated carotid endarterectomy. Peripheral Vascular Surgery Society, Snowmass, CO, January 14, 2001.
34. Skelly CL, Curi MA, Meyerson SL, Lee E, Lanahan J, Jayakar D, **Bassiouny HS**, Schwartz LB. Differential activation of MAPK signal transduction in intact human artery and vein. Karolinska Symposium on Peripheral Vascular Disease,

Stockholm, Sweden, January 26-27, 2001.

35. Skelly CL, Meyerson SL, Curi MA, Desai TR, Katz D, McKinsey JF, **Bassiouny HS**, Gewertz BL, Schwartz LB. Long term results of infrageniculate bypass grafting using all autogenous composite vein. Society for Clinical Vascular Surgery, 29<sup>th</sup> annual symposium on vascular surgery, Boca Raton, FL, April, 2001.
36. Curi MA, Skelly CL, Desai TR, McKinsey JF, **Bassiouny HS**, Katz D, Gewertz BL, Schwartz LB. Conduit choice for above knee femoropopliteal bypass grafting in patients with limb-threatening ischemia. Peripheral Vascular Surgery Society, Spring Meeting, 2001.
37. Rossi PJ, Skelly CL, Meyerson SL, Curi MA, **Bassiouny HS**, Katz D, McKinsey JF, Schwartz LB, Gewertz BL, Desai TR. Determinants of graft patency and limb salvage secondary infrainguinal bypass. Midwest Vascular Surgery Society, 2001.
38. Skelly CL, Meyerson SL, Curi MA, Desai TR, Katz D, McKinsey JF, **Bassiouny HS**, Gewertz BL, Schwartz LB. Long-term results of infrageniculate bypass grafting using all-autogenous composite vein (poster). Society for Clinical Vascular Surgery, 2001.
39. Meyerson SL, Skelly CL, Curi MA, Desai TR, Katz D, **Bassiouny HS**, McKinsey JF, Gewertz BL, Schwartz LB. Autogenous infrainguinal bypass grafting in patients with end-stage renal failure: Long-term results (poster). Eighth Annual Charles B. Huggins Research Conference, 2001.
40. Woo DH, Skelly CL, Curi MA, Baron JM, Desai TR, McKinsey JF, **Bassiouny HS**, Katz D, Gewertz BL, Schwartz LB. Long-term outcome of infrainguinal bypass grafting in patients with serologically proven hypercoagulability. Society for Vascular Surgery, 2001.
41. Curi MA, Skelly CL, Desai TR, McKinsey JF, **Bassiouny HS**, Katz D, Gewertz BL, Schwartz LB. Conduit choice for above-knee femoropopliteal grafting in patients with limb-threatening ischemia. 26<sup>th</sup> Annual Spring Meeting of the Peripheral Vascular Surgery Society, Baltimore, MD, June 9, 2001.
42. Curi MA, Skelly CL, Meyerson SL, Lee E, Lanahan J, Jayakar D, **Bassiouny HS**, Schwartz LB. Differential activation of MAPK signal transduction in intact human artery and vein. *Association for Academic Surgery*, Milwaukee, WI, November 17, 2001.
43. Skelly CL, Curi MA, Woo DH, Desai TR, Katz D, McKinsey JF, **Bassiouny HS**, Gewertz BL, Schwartz LB. Long-term results of infrageniculate bypass grafting using all-autogenous composite vein. Peripheral Vascular Surgery Society Annual Winter Meeting, Breckenridge, CO, February 1, 2002.
44. Curi MA, Skelly CL, Woo DH, Baron JM, Desai TR, Katz D, McKinsey JF, **Bassiouny HS**, Gewertz BL, Schwartz LB. Long-term outcome of infrainguinal bypass grafting in patients with serologically proven hypercoagulability. Fifty-Sixth Annual Meeting of The Society for Vascular Surgery, Boston, MA, June 11, 2002.
45. Shaalan WE, French-Sherry E, Castilla M, Lozanski L, **Bassiouny HS**. Reliability of common femoral artery hemodynamics in assessing the severity of aortoiliac inflow disease. 26<sup>th</sup> Annual meeting of the Midwestern Vascular Surgical Society, Madison, WI, September, 2002,
46. Loth F, Royston TJ, Fischer PF, **Bassiouny HS**. Transitional flow at the venous anastomosis of an arteriovenous graft.

- 14th U.S. National Congress of Theoretical and Applied Mechanics, Blacksburg, VA, June, 2002.
47. **Bassiouny HS.** Is Calcification a marker of human carotid plaque stability? 4th Annual Conference of Arteriosclerosis, Thrombosis, and Vascular Biology /AHA Washington, DC, May, 2003.
  48. Fischer PF, Loth F, **Bassiouny HS**, Lee SE. Simulation of transition in vascular flows. International Bio-Fluid Symposium and Workshop, December 12-14, 2003, Pasadena, CA, Caltech.
  49. Grogan JK, Castilla M, Lozanski L, Griffin A, Loth F, **Bassiouny HS.** Frequency of critical stenosis in primary arteriovenous fistulae prior to hemodialysis access: should duplex ultrasound surveillance be the standard of care? 58th Annual Meeting of the Society for Vascular Surgery, June 5, 2004, Anaheim, CA.
  50. Lee SW, Loth F, Fischer PF, **Bassiouny HS**, Grogan J. Numerical simulation of pulsatile flow in an arteriovenous graft. 14th European Society of Biomechanics (ESB) conference in Hertogenbosch, Holland, July 4-7th, 2004.
  51. Loth F, Fischer PF, Royston TJ, **Bassiouny HS.** Biomechanical mechanisms in arteriovenous graft failure. Whitaker Foundation's Annual Biomedical Engineering Research Conference in La Jolla, CA, August 12-15, 2004.
  52. Grogan JK, Shaalan WE, Cheng H, Gewertz BL, Desai TR, Schwarze ML, Glagov S, Lozanski L, Griffin A, Castilla M, **Bassiouny HS.** B-mode ultrasonographic characterization of carotid atherosclerotic plaques in symptomatic and asymptomatic patients. The 28th Annual Meeting of the Midwestern Vascular Surgical Society, Omaha, NB, September 10, 2004.
  53. Fischer PF, Lee SW, Loth F, Tufa H, **Bassiouny HS.** Simulation of turbulence in vascular flows. The International Conference on Parallel Computational Fluid Dynamics, Washington, D.C., May 24-27, 2005.
  54. Ketteler E, Lozanski L, Grogan JK, Desai TR, Schwarze ML, Piano G, Gewertz BL, **Bassiouny HS.** Hemodynamic thresholds for Bulb and NASCET internal carotid stenosis using high resolution B-mode imaging: A reappraisal of current duplex ultrasound criteria. The 29th Annual Meeting of the Midwestern Vascular Surgical Society, Chicago, IL, 2005.
  55. Wahlgren CM, Skelly CL, Shalhav A, **Bassiouny HS.** Hybrid laparo-robotic de branching and endovascular repair of thoracoabdominal aortic aneurysm, International Endovascular Laparoscopic Congress, New York, NY, November 15, 2006.
  56. Fischer PF, Loth F, Lee S-W, Smith DS, Tufa H, **Bassiouny HS.** Parallel simulation of high Reynold's number in vascular flows. International Conference on Parallel Computational Fluid Dynamics, Washington, DC, May 2005.
  57. Wahlgren CM, Piano G, Desai TR, Shaalan W, **Bassiouny HS.** Transperitoneal versus retroperitoneal suprarenal cross-clamping for repair of AAA with a hostile infrarenal aortic neck. Peripheral Vascular Surgery Society Winter Meeting, Snowmass, CO, February 2007.
  58. Shaalan WE, Smith D, Loth F, Fischer P, Vosicky J, **Bassiouny HS.** Novel endovascular arteriovenous access inhibits experimental in-vivo turbulence-induced vein wall vibration and venous intimal hyperplasia. 14th Annual Charles Huggins Research Conference, Department of Surgery, The University of Chicago, May 5, 2007.
  59. Prema J, Baron J, **Bassiouny HS.** Utility of the serotonin-release assay in patients suspicious for heparin-induced thrombocytopenia. 14th Annual Charles Huggins Research Conference, Department of Surgery, The University of

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Chicago, May 5, 2007.

60. Tang J, **Bassiouny HS**. Epigenetic suppression of human smooth muscle cell proliferation by histone deacetylase inhibitor Trichostatin A. 14th Annual Charles Huggins Research Conference, Department of Surgery, The University of Chicago, May 5, 2007.
61. Shaalan WE, Wahlgren CM, Piano G, Desai TR, Skelly CL, French-Sherry E, Lozanski L, **Bassiouny HS**. Reappraisal of internal carotid artery stenosis velocity thresholds utilizing high-resolution B-mode ultrasound validated with CTA: Do current practice thresholds overestimate carotid bifurcation disease. 14th Annual Charles Huggins Research Conference, Department of Surgery, The University of Chicago, May 5, 2007.
62. Shaalan WE, Smith D, Loth F, Fischer P, Vosicky J, **Bassiouny HS**. Novel endovascular arteriovenous access inhibits experimental in-vivo turbulence vein wall vibration and venous intimal hyperplasia. 31st Annual Midwestern Vascular Surgical Society. Winner of The Charles C. Guthrie Award for Basic Science Research, 2007.
63. Wahlgren CM, Zheng W, Shaalan W, Tang J, Grogan J, Cheng W, **Bassiouny HS**. Calcification and human carotid plaque vulnerability: Relationship between the degree of calcification, fibrous cap inflammatory gene expression, and symptomology. 31st Annual Midwestern Vascular Surgical Meeting, 2007.
64. Shaalan WE, Spiguel L, Prema J, Skelly CL, Desai TR, Piano G, Loth F, **Bassiouny HS**. Elevated hemodynamic shear improves patency of femoropopliteal endovascular interventions. The Charles B. Huggins Research Conference, The University of Chicago, Department of Surgery, Chicago, IL, 2008.
65. Carson JG, Spiguel LRP, Hynes KL, **Bassiouny HS**, Skelly CL. The changing training paradigm of general surgery residents in vascular surgery. 32nd Annual Meeting of the Midwestern Vascular Surgical Society, Madison, WI, September 11, 2008.
66. Prema J, Carson JG, Shaalan WE, Loretto MB, **Bassiouny HS**. Internal carotid stenosis B-mode ultrasound gray scale median (GSM) analysis: Relationship to symptoms and age. 32nd Annual Meeting of the Midwestern Vascular Surgical Society, Madison, WI, September 12, 2008.
67. McCormick S, Wu T, Loth F, Biswas D, **Bassiouny H**, Carotid Plaque Burden and Calcification in Symptomatic and Asymptomatic Patients: 3 Dimensional CTA analysis, 34<sup>1</sup> Annual Meeting of the Midwestern Vascular Surgical Society Meeting, Indianapolis, September 2010.
89. McCormick Sand **Bassiouny HS**, Differential Effects of Histone Deacetylase Inhibitors on Human Vascular Smooth Muscle Cells, accepted at the AHA Annual meeting for Arteriosclerosis, Vascular Thrombosis and Vascular Biology Meeting, Chicago April 2011
90. ElSorady M, McCormick S, Bernhardt V, **Bassiouny HS**, Clinical Value of CTA in 50% or greater Carotid Stenosis by Duplex Ultrasound, accepted at the Annual Vascular Meeting, Chicago, June 2011

### OTHER PRESENTATIONS (as presenter):

1. Subclavian venous thrombosis. Surgical Grand Rounds, Henry Ford Hospital, Detroit, Michigan, March, 1986.
2. Portal hypertension. Surgical Grand Rounds, Henry Ford Hospital, Detroit, Michigan, March, 1986.



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3. Effect of heart on coronary and peripheral atherosclerosis. SCOR External Advisory Committee Meeting, Chicago, Illinois, February, 1988.
4. Morphologic and biochemical analysis of human carotid lesions. Hugh Lofland Conference on Arterial Wall Metabolism, Chicago, Illinois, May, 1988.
5. Critical carotid stenosis: Morphologic and chemical similarity between symptomatic and asymptomatic plaques. International Society for Cardiovascular Surgery, Chicago, Illinois, June, 1988.
6. Quantitative inverse correlation of wall shear stress on experimental intimal thickening. Surgical Forum, American College of Surgeons, Chicago, Illinois, October, 1988.
7. Hemodynamic and structural determinants of human plaque stability. Biology of the Artery Wall -Satellite Meeting, 8th International Symposium on Atherosclerosis- Sienna, October, 1988.
8. Structural changes in the arterial wall in response to increased flow. Hugh Lofland Conference on Arterial Wall Metabolism, Welches, Oregon, May, 1989.
9. Noninvasive vascular diagnosis of deep venous thrombosis. Obstetrics and Gynecology Grand Rounds, University of Chicago, Chicago, IL, June 14, 1989.
10. Chronic venous insufficiency. Department of Surgery Grand Rounds, University of Chicago, Chicago, IL, August, 1989.
11. Management of deep venous thrombosis and pulmonary embolism in orthopedic patients. Orthopedic Surgery Grand Rounds, University of Chicago, Chicago, IL, August, 1989.
12. Peripheral vascular noninvasive imaging. Dermatology Grand Rounds, University of Chicago, Chicago, IL, August, 1989.
13. Management of chronic venous insufficiency. Dermatology Grand Rounds, University of Chicago, Chicago, IL, August, 1989.
14. Anastomotic intimal hyperplasia. SCOR Seminar, University of Chicago, Chicago, IL, October, 1989.
15. Artery wall restructuring in response to increased flow. Surgical Forum, American College of Surgeons, Atlanta, GA, October, 1989.
16. Aortic reconstruction of aneurysmal and occlusive disease. XIX World Congress, International Society for Cardiovascular Surgery, Toronto, September 1989.
17. Peripheral vascular noninvasive diagnosis. Little Company of Mary Hospital, Department of Surgery Meeting, Chicago, IL, February, 1990.
18. Symposium on the care of the patient with advanced peripheral vascular disease. University of Chicago, Chicago, IL, February, 1990.
19. Carotid stenosis. Medical Staff Conference, Methodist Hospitals, Merrillville, Indiana, May, 1990.
20. In vivo accumulation of indium-111[SCN-BZ-DTPA]-low density lipoprotein by experimental aortic lesions.

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Cardiovascular Science and Technology: Basic & Applied, II. Louisville, Kentucky, 1990.

21. Penile duplex sonography in the diagnosis of venogenic impotence. Society for Vascular Surgery Joint Annual Meeting, June, 1990.
22. Thromboembolism: Venous stasis. The Cook County Graduate School of Medicine, February 25, 1991.
23. Measurement of wall shear in an end to side vascular anastomosis model: correlation with experimental intimal thickening. HS Bassiouny, F. Loth, DP Giddens, S Jones, S Glagov, CK Zarins. Association for the Advancement of Medical Instrumentation Cardiovascular Science and Technology Conference, Bethesda, Maryland, 1991.
24. Relationship between flow patterns and geometry in end-to-side anastomotic grafts. American Society of Mechanical Engineers Winter Annual Meeting, December, 1991.
25. Velocity and wall shear measurements in an end to side vascular anastomosis model. F Loth, HS Bassiouny, SA Jones, DP Giddens, S Glagov, CK Zarins. NATO Advances Study Institute on Frontiers in Cardiovascular Engineering, Spain, 1991.
26. Anastomotic intimal hyperplasia: mechanical injury or flow induced? Bassiouny HS, White S, Choi E, Giddens DP, Glagov S, Zarins C. International Society for Cardiovascular Surgery/Society for Vascular Surgery. Boston, MA. January, 1991.
27. Color duplex ultrasonography in the assessment of total carotid occlusions. Bassiouny HS, Pooley T, Poindexter R. Society of Vascular Technology, January 1991.
28. Hemodynamic stress and experimental aortoiliac atherosclerosis. Bassiouny HS, Zarins CK, Choi E, Kadowaki M, Glagov S. The Midwestern Vascular Surgical Society, September, 1991.
29. Heart rate and experimental carotid atherosclerosis. Bassiouny HS, Zarins CK, Hovanessian A, Glagov S. American College of Surgeons, October, 1992.
30. Penile duplex sonography in the evaluation of vasculogenic impotence. Levine LA, Mutchnik S, Bassiouny H. Symposium on Noninvasive Diagnostic Techniques in Vascular Disease, San Diego, CA, 1992.
31. Induction and composition of intimal thickening and atherosclerosis. Glagov S, Bassiouny H, Giddens, DP, Zarins, C.K. 16th World Congress of the International Union of Angiology, Paris, 1992.
32. Distal arteriovenous fistula inhibits experimental anastomotic intimal thickening. Bassiouny HS, Krievins D, Glagov S, Abu-Hamad G, Zarins CK. American College of Surgeons- Surgical Forum, October, 1993.
33. Biomechanical factors and anastomotic intimal hyperplasia (progress report). NHLBI, Devices and Technology meeting, Washington D.C, December 9th-11th, 1994.
34. Shear stress modulates anastomotic intimal hyperplasia. Bassiouny HS, Loth F, Zarins CK, Jones SA, Giddens DP, Glagov S. SVS/NA-ISCVS Joint Mtg- Research Forum, June, 1995.
35. Low shear enhances progression of anastomotic intimal hyperplasia. Bassiouny HS, Ng A, Glagov S. 20th Annual Mtg- Peripheral Vascular Surgical Society, June, 1995.
36. Low diurnal heart rate variability inhibits experimental carotid stenosis. Bassiouny HS, Lee DC, Zarins CK, Glagov S. American College of Surgeons- 81st Annual Clinical Congress, October, 1995.

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37. Low diurnal heart rate variability inhibits experimental coronary stenosis. Lee DC, Bassiouny HS, Zarins CK, Glagov S. American Heart Association- 68th Scientific Sessions, November, 1995.
38. Juxtalumenal location of plaque necrosis and neof ormation in symptomatic carotid stenosis. Bassiouny HS, Sakaguchi Y, Mikucki S, McKinsey JF, Piano G, Gewertz BL, and Glagov S. 20th Annual Meeting of the Southern Association for Vascular Surgery, January, 1996.
39. Reduced flow enhances collagenase IV transcription after arterial injury. 69th Scientific Sessions of the American Heart Association, New Orleans, LA, November, 1996.
40. Flow regulation of 72 kDa collagenase IV (MMP-2) after experimental arterial injury. Bassiouny HS, Song RH, Hong XF, Sighn AK, Glagov S. 1997 Joint Annual Meeting, SVS/NA-ISCVS, Boston, MA, June, 1997.
41. Egr-1 is upregulated by reduced flow in the injured rabbit carotid artery. Bassiouny HS, Song RH, Kocharyan H, Vosicky J, Glagov S, Weichselbaum RR. American Heart Association, November, 70th Scientific Session, 1997.
42. Flow regulation of collagenase IV after experimental arterial injury. 21st Annual Meeting of the Midwestern Vascular Surgical Society, Chicago, IL, September, 1997.
43. Low flow enhances platelet activation after experimental arterial injury. 21st Annual Meeting of the Midwestern Vascular Surgical Society, Chicago, IL, September, 1997.
44. Optimizing fluorescent labeling of endothelial cells for tracking during long term studies of autologous transplantation. Discussant, 21st Annual Meeting of the Midwestern Vascular Surgical Society, Chicago, IL, 1997.
45. The management of acute DVT. Advances in Vascular Ultrasound, Rosemont, Illinois, October 25-26, 1997.
46. Flow regulation of transforming growth factor beta1 (TGFB1) after experimental arterial injury. SVS/NA-ISCVS, 46th Joint Annual Meeting, San Diego, CA, June, 1998.
47. Discussant: Prospective blinded study of the relationship between plasma homocysteine and progression of symptomatic peripheral arterial occlusive disease. 46th Joint Annual Meeting of the SVS/NA-ISCVS, San Diego, CA, June, 1998.
48. Flow regulation of 72Kda Collagenase IV (MMP-2) after experimental arterial injury. Second International Congress on Coronary Artery Disease- From Prevention to Intervention, Florence, Italy, October 18-21, 1998.
49. Catheter-directed thrombolysis. Treatment of Peripheral Vascular Disease in the New Millennium, The University of Chicago, Chicago, Illinois, March, 1999.
50. High flow enhances in-vivo transforming growth factor beta1 (TGFB) after experimental arterial injury. Experimental Biology 99 Meeting, Washington, D.C., April, 1999.
51. Lp(a) and the unstable carotid plaque. 23rd Annual Meeting, Midwestern Vascular Surgical Society, September 1999.
52. Apoprotein (A) in human carotid plaque instability. American Heart Association 72nd Scientific Sessions, November, 1999.

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53. Differential effect of injury and hemodynamics on in vivo MAP kinase activation in experimental intimal thickening. Bassiouny HS, Song RH, Kocharyan HK, Jiang B, Glagov S. Fifty- Fourth Annual Meeting of the Society for Vascular Surgery, Toronto, Ontario, Canada, 2000.
54. Is calcification a marker of human carotid plaque stability? Fourth Annual Conference of Arteriosclerosis, Thrombosis, and Vascular Biology /AHA Washington, DC, May 2003.