The Division of Vascular Diseases and Surgery continues to provide exemplary care to the citizens of Ohio and the surrounding area. We had more applicants this year for our fellowship position than ever before and continue to provide an extraordinary experience for our trainees. We did experience a reduction in our number of cases performed over the past year but the complexity has remained as high as ever.

Our primary mission is excellence in patient care. Our vascular clinics consistently achieve exceptional patient satisfaction ratings. Knightsbridge Vascular Surgery clinic achieved Quarterly Patient Satisfaction Awards for the third quarter 2012 timeframe with a satisfaction rating of 92.7%, and fourth quarter with a rating of 94.7%. Division of Vascular Diseases & Surgery physician team for Inpatient area received a BRAVO Patient Satisfaction Quarterly Achievement Award for 2013. We are designated a Level One CardioVascular Emergency System and as an Aortic Center of Excellence, with an interdisciplinary team of vascular surgeons, cardiac surgeons, anesthesiologist and cardiologist to care for patients with diseases of the aorta.

We are committed to training the next generation of vascular surgeons. Through our General Vascular Surgery Fellowship Program our faculty have trained 26 vascular surgeons who are currently practicing in the United States and international communities. Division chief Patrick Vaccaro, MD was recognized by The Ohio State University Wexner Medical Center, College of Medicine and the Department of Surgery for the “Excellence in Teaching Award.” Bhagwan Satiani, MD implemented and leads the Faculty Leadership Institute, a novel business skills training program, in the College of Medicine’s Center for Faculty Advancement, Mentoring and Engagement. Jean Starr, MD is an ongoing member of Society of Vascular Surgery Women’s Leadership Committee and in the past year received an award for $5,000 from the Society of Vascular Surgeons as a Women’s Leadership Grant.

In research, Dr. Cameron Rink directs a robust lab obtaining a 7% in fundable score for his most recent RO1 submission to the NIH. This should result in a grant of $1.9 million in direct and indirect funds starting December 2013. Dr. Rink received a first place young scientist award at the 6th Annual Translational to Clinical Regenerative Medicine Wound Care Conference and he continues his research on cerebrovascular collaterals and acute ischemic stroke for which he has an active award from the American Heart Association. During this academic year division faculty members published 57 scholarly articles, books, chapter’s abstracts, and posters. Michael Go, MD was awarded the Jack R. Pfeifer Best Venous Paper Award at the 2012 Midwestern Vascular Surgical Society Meeting.
Our Mission

The mission of the Division of Vascular Diseases and Surgery is to deliver the highest quality of care to patients throughout Central Ohio suffering with peripheral vascular disease, contribute to innovations in medicine through translational research and clinical outcomes studies, and educate medical students and postgraduate trainees. A key element of focus is our commitment to leadership in personalized health care.

Clinical Care

- Comprehensive general vascular diseases and surgery service
- Arterial surgery clinic
- Dialysis clinic
- Endovascular surgery
- Laser surgery for varicose veins
- Outreach vascular clinics in Ashland, Bellefontaine, Fayette, Marysville and Upper Sandusky
- Venous surgery clinic
- Varicose vein clinic
- Wound care clinic

<table>
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<tr>
<th>OR Procedures</th>
<th>Outpatient Visits</th>
<th>Admissions</th>
<th>Patient Days</th>
<th>Average Length of Stay (days)</th>
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<td>2,631</td>
<td>7,517</td>
<td>611</td>
<td>2,567</td>
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</table>

Education

- Two-year ACGME accredited fellowship in vascular diseases and surgery
- Comprehensive rotation in vascular diseases and surgery for junior and senior general surgery residents
- Sub-internship in vascular diseases and surgery
- Vascular Grand Rounds approved for Category 1 CME clinical and basic science topics discussed (bi-weekly)
Division of Vascular Diseases & Surgery
2012-2013 Annual Report

Overview

The Division of Vascular Diseases and Surgery has continued to provide exemplary care to the citizens of Ohio and the surrounding area. We had more applicants this year for our fellowship position than ever before and continue to provide an extraordinary experience for our trainees. We did experience a reduction in our number of cases performed over the past year but the complexity has remained as high as ever.

Dr. Starr remains one of our most productive surgeons in terms of our RVU output and at the same times has expanded her national recognition. She had two publications in peer reviewed journals and two abstracts this year and remains on the post-graduate educational committee of the Society of Vascular Surgeons. During the past national meeting she moderated one of the breakfast sessions. She also remains an ongoing member of Society of Vascular Surgery Women's Leadership Committee and in the past year received an award for $5,000 dollars from the Society of Vascular Surgeons as a Women's Leadership Grant. She has also been instrumental in bringing the institutions Vascular Equality Initiative to fruition and remains an active member on the Heart and Vascular Center Executive Committee. She has a paper presentation at this year’s Mid-Western Vascular Surgical Society Meeting and continues to add clinical trials to the division.

Dr. Michael Go also remains one of our busiest clinical surgeons and at the same time consistently scores extremely high in patient satisfaction. During the past year he had four peer reviewed publications and 15 presentations. His most recent was at the Mid-Western Vascular Surgical Society in Milwaukee Wisconsin where he won the John R. Pfeifer Award for Outstanding Venous Paper. He also remains the principle investigator or co-investigator on 5 protocols and continues to enter patients into his Basic Science Stem Cell study for non-reconstructable extremity ischemia. He had two papers accepted for presentations to the Mid-Western Vascular Surgical Society Meeting which will occur this fall.

Dr. Vermilion continues to be the Director of Utilization for the Medical Center while still running a robust venous practice at Vein Solutions.

Dr. Haurani has now completed 18 months on the faculty and also remains a clinical busy. He recently returned from training for the insertion of fenestrated endografts for juxtarenal aneurysm repair. He is the first individual trained from this medical center for the application of this technique. During the past year he has also had one case report published and has had three presentations, two at The Society of Clinical Vascular Surgery and one at The American Venous Forum.

Dr. Litzendorf has spent the better part of the year developing a vascular practice at OSU East and during this past winter gave birth to her second child. She will be leaving our practice at the end of July to enter a private practice in the state of Maryland. She will be missed.

Dr. Satiani continues to be extremely productive. He continues to run the practice management seminars for the residents including master students and work with the residents on their clinical research projects. He remained productive in his reading of the vascular labs and continues to run both the vascular lab at OSU main and OSU East. He has obtained ICAVL accreditation for
both labs. He had seven peer-reviewed publications and two posters during the past year and also three non-peer reviewed or online publications. He had seven national or regional presentations and twelve local presentations. He co-edited an Atlas of Vascular Diseases this year which will be published at the end of 2013. He continues to be the coordinator of the non-invasive vascular lab symposium which was expanded to two days since 2011 and remains extremely well attended. He is the director of the Faculty Leadership Institute for FAME and at a national level is on two committees for the Society of Vascular Surgery. He also was he guest reviewer for three journals during the past year. He was appointed Commissioner of the State of Ohio Minority Health Commission by Governor Kasich as well.

Dr. Cameron Rink continues to run a robust lab and this year he obtained a 7% in fundable score for his most recent RO1 submission to the NIH. This should result in a grant of $1.9 million in direct and indirect funds starting December 1st. Also during the past year he has received recognition as an entrepreneur scholar by the technology and commercialization office at The Ohio State University and was appointed as an instructor in Molecular and Cellular Biochemistry. He was a judge at two competitions this year and continues to mentor first year graduate students in the interdisciplinary human nutrition doctoral program. He received a first place young scientist award at the 6th Annual Translational to Clinical Regenerative Medicine Wound Care Conference and he continues his research on cerebrovascular collaterals and acute ischemic stroke for which he has an active award from the American Heart Association. He has had one peer-reviewed publication the past year which appeared in the Journal of Cerebral Blood Flow and Metabolism and he had on international presentation at The Palm International Nutraceutical Conference held in Kuala Lumpur, Malaysia.

Dr. Vaccaro will complete his MBA at Fisher in three months and received the Excellence in Teaching Award for the College of Medicine and the Department of Surgery. He had one peer-reviewed publication and was again appointed to the Audit Committee of the Central Surgical Association.

**Mission Statement**

The mission of the Division of Vascular Diseases and Surgery is consistent with that of The Ohio State University Wexner Medical Center and the College of Medicine to delivery of the highest quality of care to patients throughout Central Ohio suffering with peripheral vascular disease, the contribution to innovations in medicine through translational research and clinical outcomes studies, and the education of medical students and postgraduate trainees. Strategic planning has been a priority for us as we have focused on identifying how we can best fulfill our mission and truly create the future of medicine to improve people’s lives. A key element of that focus is our commitment to leadership in personalized health care as well as to help become a high-performance organization and workplace of choice.
Clinical Faculty Appointments (July 1, 2012 – June 30, 2013)

Patrick S. Vaccaro, M.D.
Luther M. Keith Professor of Surgery
Chief, Division of Vascular Diseases and Surgery 2011 – present
Program Director, Division of General Vascular Surgery
Chief of Staff, University Hospital Health System
B.S.: Yale University, New Haven, Conn., 1971
M.D.: University of Cincinnati, Cincinnati, Ohio, 1975
Specialty Training: General surgery residency, The Ohio State University, Columbus, Ohio; clinical fellowship in cardiothoracic surgery, Baylor College of Medicine, Houston, Texas
Appointment: 2004
Specialty Interest: General Vascular surgery, Endovascular Therapy
Research Interest: Endothelial Cell Biology, Spinal Cord Ischemia, Clinical Trials

Michael R. Go, M.D.
Assistant Professor of Surgery
B.S.: Duke University, Durham, NC, 1996
M.D.: University of Cincinnati College of Medicine, Cincinnati, Ohio, 2000
M.S.: The Ohio State University, Columbus, Ohio, 2005
Specialty Training: General surgery internship and residency, The Ohio State University, Columbus, Ohio 2006; Vascular and endovascular surgery fellowship, University of Pittsburgh Medical Center, Pittsburgh, PA 2008
Appointment: 2008
Specialty Interest: General Vascular surgery, Endovascular surgery
Research Interest: Endovascular surgery, stem cell therapy for limb ischemia

Mounir J. Haurani, M.D.
Assistant Professor of Clinical Surgery
B.S.: University of Michigan, Ann Arbor, MI 1998
M.D.: Wayne State University School of Medicine in Detroit, MI 2002
Specialty Training: General surgery residency, Henry Ford Hospital, Detroit, MI in 2009, Research fellowship, Henry Ford Hospital, Department of Hypertension and Vascular Research, Detroit, MI 2007, Clinical and Research Fellowship, Massachusetts General Hospital & Harvard Medical School in Boston MA 2011
Appointment: 2011
Specialty Interest: Thoracic, abdominal, and peripheral aneurysms, carotid disease, upper and lower extremity venous obstructive disease, peripheral vascular disease, complex endovascular revascularization and IVC filter retrieval and placement
Research Interest: Surgical education, reactive oxygen species and neointimal hyperplasia
**Maria E. Litzendorf, M.D.**  
Assistant Professor of Clinical Surgery  
**B.S.**: College of William and Mary, Williamsburg, VA 1999  
**M.D.**: Eastern Virginia Medical School, Norfolk, VA 2003  
**Specialty Training**: General surgery residency, Boston University Medical Center, Boston MA 2009; Vascular surgery fellowship, The Ohio State University Medical Center, Columbus, OH 2011  
**Appointment**: 2011  
**Specialty Interest**: Peripheral vascular disease, carotid disease, venous disease, abdominal and peripheral aneurysm disease  
**Research Interest**: Venous disease and endovascular surgery

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**Cameron Rink, PhD**  
Assistant Professor of Surgery  
**B.S.**: Hillsdale College, Hillsdale, Michigan, 2000  
**Ph.D.**: The Ohio State University, Columbus, Ohio, 2008  
Post-doctoral Research, Laboratory of Molecular Medicine, The Ohio State University, 2009  
Graduate Fellow, Department of Surgery, The Ohio State University, 2008  
Graduate Research Assistant, Laboratory of Molecular Medicine, The Ohio State University, 2006  
Graduate Fellow, Human Nutrition, The Ohio State University, 2005  
**Appointment**: 2009  
**Research Interest**: stroke injury, brain repair and oxygen as a key factor in stroke-mediated pathology, anti-platelet function of natural vitamin E alpha-tocotrienol

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**Bhagwan Satiani, M.D., M.B.A.**  
Professor of Clinical Surgery  
Director of Non-Invasive Vascular Services  
**M.D.**: Dow Medical College, University of Karachi, Karachi, Pakistan, 1971  
**M.B.A.**: Franklin University, Columbus, Ohio, 2002  
**Specialty Training**: General surgery residency and trauma fellowship, Emory University, Atlanta, GA; vascular surgery fellowship, The Ohio State University, Columbus, Ohio  
**Appointment**: 2004  
**Specialty Interest**: Non-Invasive Vascular Diagnosis, Healthcare Economics, Physician hospital integration and Business Aspects of Medicine  
**Research Interest**: Business Education for Physicians, Workforce Issues
Jean E. Starr, M.D.
Associate Professor of Clinical Surgery
Director of Endovascular Services
Associate Program Director
B.S.: The Ohio State University, Columbus, Ohio, 1985
M.D.: The Ohio State University, Columbus, Ohio, 1989
Specialty Training: General surgery residency and vascular surgery fellowship, Cleveland Clinic, Cleveland, Ohio
Appointment: 2004
Specialty Interest: Endovascular Surgery, Interventional Procedures, Carotid Stents, Open and endovascular surgery
Research Interest: Endovascular Aortic Aneurysm Repair, Carotid Stenting, Peripheral Arterial Lysis

Blair D. Vermilion, M.D.
Associate Professor of Clinical Surgery
Associate Medical Director, Utilization Review
B.S.: Miami University, Oxford, Ohio, 1968
M.D.: The Ohio State University, Columbus, Ohio, 1972
Specialty Training: General surgery residency, Indiana University, Indianapolis, Ind.; vascular surgery fellowship, St. Anthony Hospital, Columbus, Ohio
Appointment: 2004
Specialty Interest: General Vascular Surgery, Venous Disease
Research Interest: Clinical trials

Resident Staff

Nicolas Mouawad, M.D., M.B.A., M.P.H.
PGY-06
MD.: Royal College of Surgeons, Dublin, Ireland 2005
MBA.: Benedictine University, Chicago IL 2011
MPH.: Benedictine University, Chicago, IL 2011

Axel Thors, DO
PGY-07
BS.: University of Alabama at Birmingham, Birmingham, Alabama 1999
MD.: Nova Southeastern University College of Osteopathic Medicine, Fort Lauderdale, Florida 2006
Emeritus Faculty

William L. Smead, M.D.
Associate Professor Emeritus of Surgery
Luther M. Keith Professor of Surgery until 2011
B.A.: Amherst College, Amherst, Mass., 1968
M.D.: Vanderbilt University, Nashville, Tenn., 1972

Research Programs


Rink CL, Malaysian Palm Oil Board, Natural tocotrienol against ischemic stroke event. Clinical trial to test tocotrienol vitamin E on platelet aggregation in healthy volunteers (Phase I), hyperlipidemics (IIA) and stroke survivors (IIB). July 1, 2011 – June 30, 2015.


**Accomplishments in Research (July 1, 2012 – June 30, 2013)**

- Division faculty members published 57 scholarly articles, books, chapter’s abstracts, and posters.

- Cameron Rink, PhD was awarded 1st place poster award at 6th Annual Translational to Clinical (T2C) Regenerative Medicine Wound Care Conference and judged the 10th Annual Russell Klein Nutrition Research Symposium and the 17th Annual Denman Undergraduate Research Forum here at The Ohio State University Wexner Medical Center.

- Mallory Heigel was awarded 1st place in The Ohio State University Wexner Medical Center, DHLRI Research Day for her work on Tocotrienol vitamin E improves cerebrovascular collateral perfusion during acute ischemic stroke on October 11, 2012.

- IRB approval human trial investigating the use of autologous bone marrow derived hematopoietic stem cells with platelet rich plasma to stimulate angiogenesis for the treatment of critical limb ischemia.

- Bolton Relay-initial enrollment is now complete for endovascular arm of the original study plan but we were invited to participate in the continued access portion of the Bolton Relay Trial (Protocol Version I) which will allow 50 additional subjects to be treated with the Relay Thoracic Stent Graft at up to 20 of the investigative sites participating in the trial.

- CVRx Rheos Pivotal – Enrollment is complete and we are now in the follow up phase of the trial. Subjects enrolled in the trial will be followed through FDA approval/disapproval of the device.

- We are the Second top enroller in the Boston Scientific study called ORION: A Boston Scientific trial of the EPIC Nitinol Stent System in the Treatment of Atherosclerotic Lesions in Iliac Arteries. Closed to enrollment and in the follow up phase.

- SAPPHIRE WW, sponsored by Cordis, is a carotid stent registry in which we also currently enroll patients – enrollment has been extended to 21,000.

- Bayer Jetstream NAVITUS post market registry which is a rotating, aspirating, expandable catheter for active removal of atherosclerotic disease and thrombus in peripheral vasculature.
• Boston Scientific SuperNOVA stenting of the superficial femoral and proximal popliteal arteries with a self-expanding bare metal stent system. Closed to enrollment

• COOK Zenith TX2 Low Profile Thoracic aortic aneurysm endovascular graft is open for enrollment.

Clinical Programs

• Comprehensive general vascular diseases and surgery service.

• Endovascular surgery.

• Laser surgery for varicose veins.

• Arterial surgery clinic.

• Venous surgery clinic.

• Varicose vein clinic.

• Dialysis clinic.

• Wound care clinic.

• Outer-lying vascular clinics in Ashland, Bellefontaine, Fayette, Marysville and Upper Sandusky.

Accomplishments in Clinical Care (July 1, 2012 – June 30, 2013)

• Attending faculty in the division performed 1282 surgical procedures and received 7517 outpatient visits.

• Knightsbridge Vascular Surgery clinic achieved another Quarterly Patient Satisfaction Award for the July, August, September 2012 timeframe we achieved a 92.7% rating for the quarter; a second Patient Satisfaction Quarterly Achievement Award was achieved an average of 94.7% rating for the October, November and December.

• Division of Vascular Diseases & Surgery physician team for Inpatient area received a BRAVO Patient Satisfaction Quarterly Achievement Award FY13 2nd quarter 88% with target of 82.3%.

• Offering of outpatient clinic varicose vein treatment instead of hospital-based treatment.

• Dr. Patrick S. Vaccaro was elected Chief of Staff of the University Hospital Health System, Columbus, Ohio, 2011-2013

• Continuation of a high patient satisfaction score. As of April 2013, the overall assessment total was 84.2%.
• Dr. Bhagwan Satiani passed his American Board of Surgery Recertifying Exam in Vascular Surgery.

• Level One CardioVascular Emergency System

• Aortic Center of Excellence, interdisciplinary team of vascular surgeons, cardiac surgeons, anesthesiologist and cardiologist to care for patients with diseases of the aorta.

Educational Programs

• Two-year fellowship in vascular diseases and surgery, accredited in 2006 by the Accreditation Council for Graduate Medical Education.

• Comprehensive rotation in vascular diseases and surgery for junior and senior general surgery residents.

• Sub-internship

• Vascular Grand Rounds approved for Category 1 CME clinical and basic science topics discussed (bi-weekly)

• Divisional Morbidity and Mortality Conference (biweekly), Pre-Operative Case Conference (monthly), Journal Club (monthly), Endovascular M&M and Angiogram Conference (monthly), Interesting Case Conference (monthly), Research Update Conference (quarterly), Vascular Lab Lecture (quarterly) and outside speaker conference (quarterly).

• Seminar in Practice Management lead by Dr. Bhagwan Satiani, presents monthly business classes to the students and residents in the Department of Surgery.

• Bhagwan Satiani led and implemented the Faculty Leadership Institute in the Center for FAME.

• Faculty have trained 26 vascular surgeons that are currently practicing in the United States and international communities through our General Vascular Surgery Fellowship Program.

Accomplishments in Education (July 1, 2012 – June 30, 2013)

• Completion of our two-year fellowship training program in vascular surgery by Axel Thors, DO.

• Michael Go, MD was awarded the Jack R. Pfeifer Best Venous Paper Award at the 2012 Midwestern Vascular Surgical Society Meeting 2012, Milwaukee, WI September 6-8, 2012; appointed member of The Ohio State University Wexner Medical Center, Hydrid OR Executive Committee, IHIS Anesthesia Implementation Subcommittee, Ross OR
Operating Council, Level One Cardiac and Vascular Emergency Program Committee, CME Level One Cardiovascular Emergency Conference Committee, Technology Assessment Committee and Stroke Performance Improvement Committee; featured in The Ohio State University Wexner Medical Center, This Week communication September 24, 2012 “Exploring Stem Cell Therapy to Treat Vascular Conditions”; attended VIVA Conference in Las Vegas, October 9-11, 2012; attended the ACS Annual Meeting in Chicago, IL, October 1-2, 2013; also featured in Heart and Vascular Center 2012 Year in Review, page 17 April 2013.


- Mounir Haurani, MD was appointed as a member of The Ohio State University Wexner Medical Center, College of Admissions Screener Committee and the Clinical Resource Utilization Committee; attended the AVF meeting in Phoenix AZ February 26-March 2, 2013; attended the SCVS meeting in Miami FL March 13-16, 2013; attended Maquet Training Cardio/Vascular in Cleveland OH, August 16, 2012.

- Maria Litzendorf, MD was appointed as a member of The Ohio State University Wexner Medical Center, Evidence-Based Practice Policy Group and the Clinical Resource Utilization Committee; attended RPVI Review Course in Chicago, IL, March 16-17, 2013.

- Nicolas Mouawad, MD attended and member of the Residency Executive Council meeting at the ACS Meeting in Chicago, IL, October 1-2, 2012; attended VEITH Symposium in New York, NY, November 15-16, 2012; attended and poster presentation at the SCVS meeting in Miami FL, March 13-16, 2013; attended and presented at the AVF meeting in Phoenix AZ, February 26-March 2, 2013.

- Cameron Rink, PhD attended and presented Malaysian Palm Oil Council Meeting in Malaysia, May 17-23, 2013; mentoring at The Ohio State University Wexner Medical Center: Yue Zhang BS, MS and Seth Teplitsky.


- Bhagwan Satiani, MD attended the MWVS Meeting September 5-7, 2012 in Milwaukee, WI; attended ACS Meeting in Chicago, IL, Oct 1-2, 2012; attended and had a poster presentation at the SCVS Meeting in Miami FL, March 13-16; attended and lectured at the 2013 Cherry Blossom Vascular Symposium in Washington DC, April 26-27, 2013; attended the SVS Meeting in San Francisco CA, May 28 – June 1, 2013.

- Jean Starr, MD was appointed a member of The Ohio State University Wexner Medical Center, Neurovascular Division- Stroke PI Committee, Medical Student Research Program Faculty Advisory Council, Heart and Vascular Executive Committee, chairs the Vascular Operations Council, Heart & Vascular Executive Committee; attended the MWVS Meeting in Milwaukee WI, September 5-8, 2012; attended and lectured at the 4th Annual Contemporary Multidisciplinary Cardiovascular Conference in Orlando FL September 28-30, 2012; attended Abbott Vascular Endovascular Medical Advisory Board Meeting in Dallas TX November 9-10, 2012; attended Boston Scientific Medical Advisory Board Meeting in Salt Lake City, UT March 4-6, 2013; attended Central
Surgical Society Annual Meeting in Amelia Island, FL, March 15-17, 2013; attended and moderator at the SVS Meeting May 29-June 2, 2013 San Francisco, CA.

- Axel Thors, DO was awarded with the Teaching Award by The Ohio State University, College of Medicine, Department of Surgery, Medical Students; attended Maquet Training Course in Cleveland OH August 16, 2012; attended the 30th Annual UCLA Vascular Symposium and Gore Training Course for Fellows in Las Angeles CA September 8-13, 2012; attended and lectured at the VIVA Annual Meeting in Las Vegas, NV October 8-11, 2012; attended and lectured at Columbus Surgical Society 2013 Presidential Symposium, Columbus, OH, March 16, 2013.

- Patrick Vaccaro, MD was recognized by The Ohio State University Wexner Medical Center, College of Medicine and the Department of Surgery for “Excellence in Teaching Award”; appointed a member of The Ohio State University Wexner Medical Center, Product Value Analysis Team, Cardiovascular Services Committee; and finished his term as Chief of Staff for The Ohio State University Medical Center Medical Staff; attended Central Surgical Society Meeting in Amelia Island FL March 13-15, 2013; attended APDVS meeting in Chicago, IL March 22-23, 2013; attended Ohio Chapter, ACS Annual Meeting in Columbus OH, May 3-4, 2013.

Community Outreach Programs

Go MR. Statistics for the clinician and surgeon. The Ohio State University Wexner Medical Center, Division of Trauma, Critical Care and Burn Research Series, Columbus OH, August 2012

Go MR. Aortic aneurysms. MedCentral Health System, Mansfield, OH, August 14, 2012

Go MR. Vascular Emergencies: How to Diagnose and Manage Acute Limb Ischemia. 4th Annual Acute Myocardial Infarction Update: Beyond STEMI: An Introduction to Level 1 Heart and Vascular Emergency Program, The Ohio State University Wexner Medical Center, Columbus, OH, September 21, 2012

Go MR. Moderator – Med IV Honors Vascular Lab, The Ohio State University Wexner Medical Center, Department of Surgery, Columbus, OH, February 18, 2013

Go MR. Iliac and IVC injury, The Ohio State University Wexner Medical Center, OB-GYN Resident Lecture, Columbus, OH, March 5, 2013

Go MR. Arterial Disease. The Ohio State University Wexner Medical Center, Department of Surgery/Basic Science Conference – Moderator, Columbus, OH, March 7, 2013

Go MR. Arterial Anastomosis. The Ohio State University Wexner Medical Center, College of Medicine, Surgical Skills Lab Lecture with PGY1-3, Columbus, OH, March 12, 2013

Go MR. Statistics for the clinician and surgeon. The Ohio State University Wexner Medical Center, Division of Trauma, Critical Care and Burn Research Series, Columbus OH, March 29, 2013

Haurani MJ. Cath Lab/Endovascular Nightmares. 4th Annual Acute Myocardial Infarction Update: Beyond STEMI: An Introduction to Level 1 Heart and Vascular Emergency Program, The Ohio State University Wexner Medical Center, Columbus, OH, September 21, 2012

Haurani MJ. Aortic Dissection. Licking County Memorial Hospital, Medical Staff Meeting, Newark, OH, September 24, 2012

Haurani MJ. Discussant: Adaptations in gene and protein expressions within different regions of the left ventricle after an acute myocardial infarction. Ohio State University Wexner Medical Center, Department of Surgery Research Day, Columbus OH, May 23, 2013


Satiani B. Ruberg R. Surgery program trains tomorrow’s leaders. InSight onCampus, The Ohio State University Faculty Staff Newspaper, page 16, Columbus OH, August 23, 2012


Satiani B. Middle Eastern American Identities. All Sides with Ann Fisher – WOSU, Columbus, OH, September 19, 2012

Satiani B. Clinical Evaluation of Suspected DVT Guides the Decision to Prophylactically Anticoagulate But Does Not Impact the Decision to Perform After Hours Duplex Venous Scanning or Increase Its Yield. Presented OSE Hospital, Emergency Department, Columbus OH, December 7, 2012

Satiani B. Overview of healthcare cluster program for 2013. The Ohio State University Wexner Medical Center, Fisher School of Business, Undergraduate Healthcare Cluster, Columbus, OH, January 8, 2013

Satiani B. Limb Loss: Difference and disparity. Ohio Commission on Minority Health, Columbus, OH, January 18, 2013

Satiani B. Venous Disease. The Ohio State University Wexner Medical Center, Professor Conference, Department of Surgery, Columbus, OH, February 9, 2013

Satiani B. Medicare & Medicaid. The Ohio State University Wexner Medical Center, Undergraduate Healthcare Cluster at Fisher School of Business, Columbus OH, February 12, 2013
Satiani B. Insurance to get: why? Which one? How much? The Ohio State University Wexner Medical Center, General Surgery Resident Practice Management class, Columbus OH, February 14, 2013


Satiani B. Basics of Malpractice, Torts, and Negligence. The Ohio State University Wexner Medical Center, College of Medicine, Seminar in Practice Management, Columbus OH, May 9, 2013

Starr JE. Arterial Vascular Disease in Women. The Ohio State University Wexner Medical Center 4th Annual Women's Cardiovascular Health Conference, Columbus, OH, September 14, 2012

Starr JE. Endovascular Case Studies. 4th Annual Acute Myocardial Infarction Update: Beyond STEMI: An Introduction to Level 1 Heart and Vascular Emergency Program, The Ohio State University Wexner Medical Center, Columbus, OH, September 21, 2012

Starr JE. Noninvasive workup of intermittent claudication. The Ohio State University Heart and Vascular Center 4th Annual Contemporary Multidisciplinary Cardiovascular Medicine Seminar, Orlando, FL, September 29, 2012


Starr JE. Moderator – Med II Student Small Group, The Ohio State University Wexner Medical Center, Department of Surgery, Columbus OH, October 9, 2012

Starr JE. Peripheral Vascular Disease. The Ohio State University Wexner Medical Center, Department of Surgery, Professor Conference, Columbus, OH, October 25, 2012

Starr JE. Peripheral Arterial Disease in Women. Southern Ohio Medical Center, Grand Rounds, Portsmouth, OH, February 15, 2013

Starr JE. Anatomy. Chalmers P. Wyle VA Hospital, Columbus OH, February 20, 2013

Starr JE. Matters of the Heart “Advances in Aneurysm Treatment” WCMH NBC 4 TV, Columbus, OH, February 28, 2013


Vaccaro PS. Vascular Emergencies: Thoracic and Abdominal Aortic Dissection Management Options 2012. 4th Annual Acute Myocardial Infarction Update: Beyond STEMI: An Introduction to Level 1 Heart and Vascular Emergency Program, The Ohio State University Wexner Medical Center, Columbus, OH, September 21, 2012
Vaccaro PS. Moderator - Department of Surgery, Surgical Interest Group, The Ohio State University Wexner Medical Center, Columbus, OH, October 3, 2012

Vermilion BD. Strategies to reduce re-admission for chronic illness. Mount Nittany Symposium, State College PA, October 26, 2012

Vermilion BD. Varicose Veins. The Ohio State University Wexner Medical Center, OSU MedNet21 CME Webcast, Columbus, OH, March 15, 2013

Accomplishments in Community Outreach (July 1, 2012 – June 30, 2013)


- Mounir Haurani, MD was nominated by the Peripheral Vascular Surgical Society to the Annual (winter) Program Committee for a two year term and elected member in the Central Surgical Association and the Society for Vascular Surgery; ad hoc reviews for Antioxidants and Redox Signaling

- Cameron Rink, PhD serves as Editorial Board Member for Advances in Wound Care, Review Editor for Frontiers in Oxidant Physiology, Ad Hoc Reviewer for Journal of Neuroimmunology and Ad Hoc Reviewer for Antioxidants and Redox Signals

- Bhagwan Satiani, MD received an Outstanding Service Award from the American Association of Physicians from Indian sub-continent (Central Ohio); was elected to the Board of "Asha Ray of Hope"; appointed to Grant Committee of the Ohio Commission on Minority Health; member of the Executive Council for Midwestern Vascular Surgical Society’; member of the Clinical Practice Council as well as Community Practice Advisory Committee for the Society for Vascular Surgery; Co-Chair Strategic Planning Committee for ASHA Ray Of Hope

- Jean Starr, MD was awarded by the Society for Vascular Surgery the “Women’s Leadership Award”; invited to serve as a member of the American College of Surgeons, 2013 Clinical Congress Abstract Review Task Force and is a reviewer for journal American Family Physician and continues to sit on the Executive Council for the Midwestern Vascular Surgical Society.

- Patrick Vaccaro, MD was elected member of Central Surgical Association Executive Council Auditing Committee

Publications


Go MR, Kiser D, Wald P, Haurani MJ, Moseley M, Satiani B. Clinical evaluation of suspected DVT guides the decision to prophylactically anticoagulate but does not impact the decision to perform after hours duplex venous scanning or increase its yield. *J Vasc Surg* 2013 Feb; 6: S0741-5214.


Mouawad NJ, Thors A, Haurani MJ, Satiani B. Varicose Veins – An evaluation of management outcomes between endovenous therapy and open surgical ligation. 2013 *Submitted for publication*


Satiani B. Physician incentives may not be aligned with their health system employer. What is a physician to do? *Surgery* 2012; March 30, 2012 1-4.

Satiani B. Regarding “Association of Program Directors in Vascular Surgery (APDVS) survey of program selection, knowledge acquisition, and education provided as viewed by vascular trainee from two different training programs”. Letter to the Editor, *J Vasc Surg* 2012 Aug;56(2)589.
Satiani B. Physician productivity measures should include more than just RVUs. Getting Paid, weblog August 13, 2012.


Thors A, Haurani MJ, Nelson K, Crestanello JA. Aortic arch replacement through a left thoracotomy for right sided aortic arch aneurysm with complete vascular ring. 2013 Accepted for publication *Annals of Thoracic Surgery*

Thors A, Mouawad NJ, Haurani MJ, Go MR. Endovascular intervention for pelvic congestion syndrome is justified for chronic pelvic pain relief and patient satisfaction. 2013 Submitted for publication.

Thors A, Vaccaro PS. Cystic adventitial disease of the popliteal artery with direct connection to the joint space. 2013 Submitted for publication.


Books


Chapters


Posters

Haurani MJ, Kiser DL, Satiani B. 24/7 vascular lab access demanded: providing more value will be incongruent with cost control mandates. E-Poster presentation at the 41st Society for Clinical Vascular Surgery annual meeting, Miami, FL March 13, 2013.


Peterson L, Starr JE. Influence of obesity on groin surgical site infections after vascular surgery. The Ohio State University Wexner Medical Center, Department of Surgery, 17th Annual Research Day, Columbus, OH May 25, 2012.


Interdisciplinary Lectures

Steven Dean, DO, Program Director, Vascular Medicine, Director Stoneridge Cardiology Peripheral Vascular Laboratory, The Ohio State University. Vascular Jeopardy. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, OH February 4, 2013.
Kavita Sharma, MD, Assistant Professor, Cardiovascular Medicine, The Ohio State University Wexner Medical Center. Current statin use and peri-operative cardiac management for non-coronary surgery. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, OH November 26, 2012.

Ravi Tripathi, MD, Assistant Professor, Anesthesiology, The Ohio State University Wexner Medical Center. Operative Vascular Surgical patient management, esp from an intensivist viewpoint. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus OH June 10, 2013.

International Presentation


National Presentations

Go MR, Kiser D, Wald P, Haurani MJ, Moseley M, Satiani B. Clinical evaluation of suspected DVT guides the decision to prophylactically anticoagulate but does not impact the decision to perform after hours duplex venous scanning or increase its yield. Midwestern Vascular Surgical Society Meeting, Milwaukee, WI, September 6, 2012.

Go MR. The modified frailty index as a predictor of operative mortality and morbidity in lower extremity amputations. American College of Surgeons Meeting, Chicago, IL, October 1, 2012.

Go MR. Diabetic Vascular Disease. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, OH, January 7, 2013.


Rink C. Robot assisted mechanical therapy and post-stroke functional recovery. 6th Annual Translational to Clinical (T2C) Regenerative Medicine Wound Care Conference, The Ohio State University Wexner Medical Center, March 17, 2013.

Rink C. Palm Tocotrienol Attenuates Stroke Injury and Improves Collateral Circulation During Cerebral Ischemia. Abstracted accepted and invited to lecture at Malaysian Palm Oil Council

Satiani B. “Creating a Local Program for Leadership Training.” Presented at the Society of Surgical Chairs (SSC) and Association of Academic Surgical Administrators (AASA) joint program ‘Life Cycle of an Academic Surgeon’ on Sunday September 30, 2012, Chicago, IL.

Satiani B. Creating a local program for leadership training. Society of Surgical Chairs Meeting, American College of Surgeons Meeting, Chicago, IL, October 2, 2012.


Satiani B. Injecting business sense and common sense into the vascular lab: a few practical pearls from an MD, MBA, RPVI. 24th Annual Society for Vascular Medicine Meeting, Cleveland, OH, June 15, 2013.


Regional Presentations


**Miscellaneous Presentation**

**Go MR.** Portal Hypertension. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, OH, July 16, 2012.

**Go MR.** Aneurysmal Disease of the abdominal aorta. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, OH, July 30, 2012.

**Go MR.** Use of lumbar drains and narcan drips. Ross Heart Hospital 5th Floor In-Service, Columbus, OH, September 26, 2012.

**Go MR.** Temporary IVC filters are the best. The Ohio State University Heart and Vascular Center, Controversies in Vascular Diseases Seminar, Columbus, OH, October 12, 2012.

**Go MR.** Endovascular intervention for tibial artery disease has made surgery a relic of the past. The Ohio State University Heart and Vascular Center, Controversies in Vascular Diseases Seminar, Columbus, OH, October 12, 2012.

**Go MR.** Endografting scanning: new data. The Ohio State University Heart and Vascular Center, 5th Annual Vascular Noninvasive Testing Symposium, Columbus, OH, October 13, 2012.

**Go MR.** Portal Hypertension, The Ohio State University Wexner Medical Center, Department of Surgery, Professor Conference, Columbus, OH, November 8, 2012.

**Go MR.** Diabetic Vascular Disease. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, OH, January 7, 2013.

**Go MR.** Long term PAD patient, claudication, critical limb ischemia, treatments, etc. Ross 5th Floor In-Service, Columbus OH, June 26, 2013.

**Haurani MJ.** Facilitator – Hemostasis, Surgical Bleeding & Transfusion. The Ohio State University Wexner Medical Center, Department of Surgery, Basic Science Conference, Columbus, OH, August 2, 2012.

**Haurani MJ.** Perioperative hemodynamics and fluid management. Ross Heart Hospital, 5th floor In-Service, Columbus, OH, August 15, 2012.

**Haurani MJ.** Permanent IVC filters are better. The Ohio State University Heart and Vascular Center, Controversies in Vascular Diseases Seminar, Columbus, OH, October 12, 2012.

**Haurani MJ.** Surgery is the best option for type B thoracic aortic dissection. The Ohio State University Heart and Vascular Center, Controversies in Vascular Diseases Seminar, Columbus, OH, October 12, 2012.
Haurani MJ. Vascular Access and Basic Science of Hemodialysis Access. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, OH, October 29, 2012.

Haurani MJ. Thoracic Outlet Syndrome/Rib Resection. The Ohio State University Wexner Medical Center, Ross 5th Floor In-service, Columbus, OH, January 16, 2013.

Haurani MJ. Coagulation & Disorders of Hemostasis. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus OH, March 18, 2013.

Litzendorf ME. Blood Rheology and the Microcirculation. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus OH, April 5, 2013.

Litzendorf ME. Mesenteric Ischemia. Ross Heart Hospital, 5th floor In-service, Columbus, OH, April 10, 2013.

Mouawad NJ. Drugs in Vascular Disease. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Columbus, OH October 15, 2012.

Mouawad NJ. Use of Endovascular Therapy in the management of PVD. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus OH, March 4, 2013.

Rink C. Cerebrovascular Collaterals in Acute Ischemic Stroke. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, OH, October 1, 2012.

Rink C. NIH R01 Grant Review: Targeting Arteriogenesis in Acute Ischemic Stroke. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus OH, April 15, 2013.

Satiani B. Diagnostic evaluation of chronic venous insufficiency. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, OH, August 6, 2012.

Satiani B. Case presentation: stump the audience #2. The Ohio State University Heart and Vascular Center, 5th Annual Vascular Noninvasive Testing Symposium, Columbus, OH, October 13, 2012.

Satiani B. Upper Extremity Arterial Evaluation. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, OH, November 5, 2012.

Satiani B. Clinical Evaluation of Suspected DVT Guides the Decision to Prophylactically Anticoagulate But Does Not Impact the Decision to Perform After Hours Duplex Venous Scanning or Increase Its Yield. The Ohio State University Wexner Medical Center, Emergency Department, Columbus, OH, December 7, 2012.
Satiani B. Upper Extremity Venous Duplex Scanning. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, OH, February 4, 2013.

Satiani B. Renal Artery Duplex Examination. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus OH, May 13, 2013.

Starr JE. Anticoagulation goals/therapies for PVS patients. The Ohio State University Wexner Medical Center, Ross 5th Floor in-service, Columbus, OH, July 18, 2012.

Starr JE. Acute Arterial Occlusion. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, OH, August 13, 2012.

Starr JE. Preoperative angiography is necessary prior to most surgical interventions. The Ohio State University Heart and Vascular Center, Controversies in Vascular Diseases Seminar, Columbus, OH, October 12, 2012.

Starr JE. Surgical option for tibial artery disease remains the gold standard. The Ohio State University Heart and Vascular Center, Controversies in Vascular Diseases Seminar, Columbus, OH, October 12, 2012.


Starr JE. Cerebral Blood Flow. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus OH, February 18, 2013.


Thors A. Diagnosis & Management of Misc Vasculogenic Problems. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, OH, November 19, 2012.

Thors A. Cigarette Smoking & Vascular Disease. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus OH, June 17, 2013.

Vaccaro PS. Arteriovenous Malformations and Arteriovenous Fistula. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, OH, September 17, 2012.

Vaccaro PS. Carotid endartectomy is the best option for asymptomatic high grade carotid stenosis. The Ohio State University Heart and Vascular Center, Controversies in Vascular Diseases Seminar, Columbus, OH, October 12, 2012.

Vaccaro PS. Aorta & Great Vessels. The Ohio State University Wexner Medical Center, Professor Conference, Department of Surgery, Columbus, OH, February 28, 2013.
Vermilion BD. Plasma Lipoproteins & Vascular Disease. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, OH, July 2, 2012.

Vermilion BD. Perforator intervention is still hocus pocus. The Ohio State University Heart and Vascular Center, Controversies in Vascular Diseases Seminar, Columbus, OH, October 12, 2012.

Vermilion BD. Vascular Graft Infections. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus, OH, December 3, 2012.

Vermilion BD. Sympathectomy. The Ohio State University Wexner Medical Center, Division of Vascular Diseases & Surgery, Vascular Grand Rounds, Columbus OH, May 13, 2013.

Distinguished Visitors:

Teresa L. Carman MD, Director of Vascular Medicine at Harrington Heart and Vascular Center, Case Western Reserve University. Preoperative angiography is a waste of time and money. The Ohio State University Heart and Vascular Center, Controversies in Vascular Diseases Seminar, Columbus, OH, October 12, 2012.

Teresa L. Carman MD, Director of Vascular Medicine at Harrington Heart and Vascular Center, Case Western Reserve University. Medical treatment is the safest option for type B thoracic aortic dissection. The Ohio State University Heart and Vascular Center, Controversies in Vascular Diseases Seminar, Columbus, OH, October 12, 2012.

Michael Dalsing MD, Director, Section of Vascular Surgery; E. Dale and Susan E. Habbeggar Professor of Surgery, Indiana University. Treating everyone with calf deep venous thrombosis is unnecessary. The Ohio State University Heart and Vascular Center, Controversies in Vascular Diseases Seminar, Columbus, OH, October 12, 2012.

Michael Dalsing MD, Director, Section of Vascular Surgery; E. Dale and Susan E. Habbeggar Professor of Surgery, Indiana University Perforator intervention for chronic venous disease is now justified. The Ohio State University Heart and Vascular Center, Controversies in Vascular Diseases Seminar, Columbus, OH, October 12, 2012.

Michael Dalsing MD, Director, Section of Vascular Surgery; E. Dale and Susan E. Habbeggar Professor of Surgery, Indiana University Controversy over ‘free floating’ DVT. The Ohio State University Heart and Vascular Center, 5th Annual Vascular Noninvasive Testing Symposium, Columbus, OH, October 13, 2012.

Michael Dalsing MD, Director, Section of Vascular Surgery; E. Dale and Susan E. Habbeggar Professor of Surgery, Indiana University Imaging perforating veins: how and why. The Ohio State University Heart and Vascular Center, 5th Annual Vascular Noninvasive Testing Symposium, Columbus, OH, October 13, 2012.

Steven Dean, DO, Program Director, Vascular Medicine, Director Stoneridge Cardiology Peripheral Vascular Laboratory, The Ohio State University. Must treat calf venous thrombosis.
The Ohio State University Heart and Vascular Center, Controversies in Vascular Diseases Seminar, Columbus, OH, October 12, 2012.

Steven Dean, DO, Program Director, Vascular Medicine, Director Stoneridge Cardiology Peripheral Vascular Laboratory, The Ohio State University. Case presentations: stump the audience #1. The Ohio State University Heart and Vascular Center, 5th Annual Vascular Noninvasive Testing Symposium, Columbus, OH, October 13, 2012.

Heather Gornik, MD, Medical Director, Non-Invasive Laboratory Heart and Vascular Institute, Cleveland Clinic Foundation. Acute versus chronic DVT: ultrasound differentiation. The Ohio State University Heart and Vascular Center, 5th Annual Vascular Noninvasive Testing Symposium, Columbus, OH, October 13, 2012.

Heather Gornik, MD, Medical Director, Non-Invasive Laboratory Heart and Vascular Institute, Cleveland Clinic Foundation. Duplex findings in arteritis. The Ohio State University Heart and Vascular Center, 5th Annual Vascular Noninvasive Testing Symposium, Columbus, OH, October 13, 2012.

Dennis Kiser, BS, RVT, Technical Director, Peripheral Vascular Laboratory, The Ohio State University Wexner Medical Center. Wound care protocols in the vascular laboratory. The Ohio State University Heart and Vascular Center, 5th Annual Vascular Noninvasive Testing Symposium, Columbus, OH, October 13, 2012.


Patricia A. Poe, RVT, Director, Non-Invasive Vascular Laboratory, University of Cincinnati Surgeons, Vascular Division. Dialysis access: how, what why. The Ohio State University Heart and Vascular Center, 5th Annual Vascular Noninvasive Testing Symposium, Columbus, OH, October 13, 2012.

Patricia A. Poe, RVT, Director, Non-Invasive Vascular Laboratory, University of Cincinnati Surgeons, Vascular Division. Flow direction: special and color. The Ohio State University Heart and Vascular Center, 5th Annual Vascular Noninvasive Testing Symposium, Columbus, OH, October 13, 2012.

Yvette Ramos, RVT, Section Manager, Ultrasound & Peripheral Vascular Laboratory, Riverside Methodist Hospital. Unusual renal artery duplex cases & findings. The Ohio State University Heart and Vascular Center, 5th Annual Vascular Noninvasive Testing Symposium, Columbus, OH, October 13, 2012.

Mehdi H. Shishehbor, DO, Director, Endovascular Services, Associate Director, Interventional Cardiology Fellowship, Department of Cardiovascular Medicine, Cleveland Clinic Foundation. Endovascular options for complex chronic limb ischemia cases. Mid Ohio Endovascular Club Meeting, Cooper’s Hawk Restaurant, Columbus OH, April 17, 2013.