Vascular Surgery Fellowship Program

at The Ohio State University Wexner Medical Center
About the Division

The Division of Vascular Diseases and Surgery is one of eight specialty divisions within the Department of Surgery at The Ohio State University Wexner Medical Center.

Our Division provides state-of-the-art vascular care to the citizenry of Ohio and surrounding states at the Richard M. Ross Heart Hospital and the affiliated health-care facilities of The Ohio State University Medical Center. We remain deeply engaged in the education and training of medical students, surgery residents, and fellows while continuing our involvement in clinical outcomes research and more recently expanding our faculty’s efforts in vascular biology.

Ohio State’s heart and vascular experts offer the best care in central Ohio. No other hospitals or heart centers in central Ohio are ranked among the nation’s best by U.S. News & World Report. Only Ohio State.

Opened in 2004 and expanded in 2007, Ohio State’s Richard M. Ross Heart Hospital is a 150-bed facility that combines the latest technology with patient-focused care to create the best possible healing environment. Each floor is dedicated to a specific service, such as cardiac surgery or vascular medicine, and we offer universal patient rooms. This means rooms are designed to be adaptable, allowing most patients to stay in the same private room throughout their hospitalization rather than having to move from room to room as their medical needs change. From diagnostic studies and routine care to implantation of life-saving heart pumps, robot-assisted surgical procedures and heart transplants, the Ross Heart Hospital offers the full spectrum of heart and vascular care, including medications; vascular, valve and bypass surgery; pacemaker implants; coronary and vascular angioplasty and stents; arrhythmia surgery and ablation.

Mission

The mission of the Division of Vascular Diseases and Surgery is to deliver the highest quality of care to vascular patients throughout Ohio and the surrounding regions, to innovate in medicine through translational research and clinical outcomes studies, and to educate medical students, postgraduate trainees, and vascular care providers.
Patient Care

We specialize in complete care for any vascular condition, from a patient’s initial visit, to diagnostic testing, endovascular treatments, open surgical procedures, and most importantly, ongoing lifelong post-treatment care as needed. Faculty in our Division see over 7,600 outpatient visits and perform over 1,500 major endovascular cases and open vascular procedures yearly. Outpatients are seen in Columbus, and also in outreach clinics throughout central Ohio for ease of patient access. We are proud of our personalized approach to each and every person we care for and perennially have one of the highest patient satisfaction ratings in the Medical Center.

Ultrasound testing is intimately involved in the diagnosis and treatment of most vascular problems. We have an ICAVL-accredited vascular ultrasound lab that services both the Ross Heart Hospital and our Knightsbridge Boulevard outpatient clinic. Our vascular sonographers are experienced and perform tests of the highest quality, ensuring accurate and rapid diagnosis of conditions, with results immediately available to the physicians.

Outpatient treatment of varicose veins and spider veins is done at our VeinSolutions office on Knightsbridge Boulevard in Columbus. We offer sclerotherapy, phlebectomy, endovenous laser therapy, and radiofrequency ablation in a comfortable, relaxing outpatient office environment. These procedures can be done for cosmetic improvement, or to treat symptoms such as swelling, pain, heaviness, or ulcers related to venous disease.
Education

The crown jewel of the Division is our accredited Vascular Surgery fellowship, which has been in existence since 1978. This is a two-year fellowship, and qualified applicants have completed the requirements for certification in general surgery by the American Board of Surgery.

The Division is responsible for the vascular education of Ohio State's medical students and surgical residents, and is home to one of the oldest vascular surgery fellowships in the country. Graduates of our fellowship finish equipped to practice the full spectrum of vascular and endovascular surgery in a community or an academic setting. Six faculty staff the Vascular Surgery clinical teaching service. As our fellowship evolves to follow the changing paradigms in vascular education, we have maintained a high quality depth and breadth of experience for our general surgery residents, and the vascular surgery rotation remains a favorite among the residents. The service consists of a second-year fellow, a first-year fellow, a fourth-year senior resident, a junior resident, and one to three interns, as well as medical students. Most clinical activity occurs in the Ross Heart Hospital, University Hospital, and the James Cancer Center, but service is also provided at University Hospital East and Nationwide Children’s Hospital. With all five surgeons operating at the main campus, there is ample operative experience for both fellows and all the residents. There are three operating rooms dedicated to the vascular surgery service in the Ross Heart Hospital OR, one of which is a GE Innova-equipped hybrid endovascular suite. Two other dedicated peripheral vascular GE Innova suites are used in the cath lab.

In the shadow of Ohio State University Wexner Medical Center’s $1.1 billion expansion, a separate $3.5 million project will add onto the Ross Heart Hospital. A new hybrid operating room is planned for the fourth floor, scheduled to open by the end of 2016.

To prepare physicians to function as well-qualified, independent specialists in Vascular Surgery, the faculty is committed to the education of Vascular Surgery residents in basic science and vascular surgery as it relates to the specialty. We hope to instill in our trainees the essential elements of success for a career in Vascular Surgery including honesty and integrity, objectivity, self-motivation, curiosity, timeliness, a sense of responsibility, and a commitment to excellence established by the Accreditation Council for Graduate Medical Education (ACGME). Implicit in the educational goals of our program is the successful acquisition of the six general competencies adopted by the ACGME.
Clinical Experience

The strength of our fellowship is the tremendous depth and breadth of clinical material. We offer a comprehensive educational program in routine and complex vascular reconstructions using both open and endovascular techniques. The endovascular and open surgery experience is combined seamlessly throughout the fellowship experience, as in real world practice. The experience covers the full range of Vascular Surgery, including:

- Aortoiliac, femoropopliteal, and tibial occlusive disease
- Cerebrovascular disease
- Thoracic, thoracoabdominal, and abdominal aortic aneurysms and dissections
- Peripheral and visceral aneurysms
- Open mesenteric and renal revascularization
- Open venous reconstructions
- Management of outpatient venous diseases
- Endovascular aneurysm repair including thoracic and fenestrated
- Tibial, mesenteric, renal, and carotid interventions
- Percutaneous atherectomy, thrombectomy, and pharmacomechanical and standard thrombolysis
- Percutaneous venous interventions including DVT thrombolysis
- Thoracic outlet disease
- Spine exposure
- Dialysis access
- Pediatric vascular surgery
- Portal hypertension

While we are fully engaged in all progressive developments in endovascular surgery, the open surgical experience remains robust at Ohio State. Recent graduates have finished with an average of over 250 major vascular operations and nearly 250 endovascular procedures. Fellows benefit from a faculty with a healthy age and experience range and diverse training backgrounds, ensuring exposure to multiple solutions to vascular problems.

Fellows also participate in the outpatient clinic one day per week to ensure continuity of care and familiarity with outpatient diseases and preoperative risk stratification.
The Noninvasive Vascular Laboratory
The fellowship offers extensive experience in the noninvasive lab and requires active weekly participation not only in interpretation of studies but also in performance of sonography. RPVI certification is obtained during the fellowship.

Educational Conferences
Every Monday from 7:00 am to 9:00 am, clinical activity is suspended and our educational conferences take place. All faculty, fellows, and on-service residents and students participate. Faculty and fellows rotate presenting topics following the APDVS basic science and clinical curricula; the entire curriculum is covered over a two-year period. Morbidity and Mortality conference, journal club, interesting cases, preoperative case conference, and endovascular morbidity and mortality conference each occur monthly. Quarterly, a vascular lab topics meeting, research update conference and VQI meeting are held. In addition, every Wednesday morning from 7:00 am to 8:00 am faculty-led teaching rounds are held, and once a month, the fellows spend an hour with a single faculty member devoted to discussion of advanced vascular topics. Quarterly a Multi-Disciplinary Peripheral Endovascular Conference is held with attendees from our division as well as the Divisions of Cardiovascular Medicine and Interventional Radiology. We have a bi-monthly meeting, Aortic Center of Excellence, where physicians in the Heart and Vascular Center meet and discuss care for patients with diseases of the aorta. Our Division organizes and hosts the annual “Vascular Non-Invasive Testing Symposium and Controversies in Vascular Diseases” every Fall, which is in its ninth year. Fellows are given the opportunity to present at this regional conference. We also participate in General Surgery Grand Rounds and Morbidity and Mortality conferences, and quarterly we host a visiting professor in vascular disease at our Mid-Ohio Endovascular Club.

Research Opportunities
Each fellow is expected to submit an abstract for presentation at a regional or national meeting annually. Ample opportunities are available in outcomes research, retrospective chart reviews, and prospective trials run by our faculty. For those with a sincere interest, vascular biology research opportunities are available in the lab of Cameron Rink, Ph.D., and dedicated time for basic research may be arranged on an individual basis.

Current Prospective Research trials include:

- American Heart Association: Cameron Rink, PhD PI - Cerebrovascular collaterals in acute ischemia stroke.
- BEST-CLI trial: Jean Starr, M.D. PI - Randomized, multicenter, controlled trial to compare best endovascular versus surgical therapy in patients with critical limb ischemia.
- Cook: Zenith TX2 LP, Jean Starr, M.D., PI - Zenith TX2 low-profile thoracic TAA endovascular graft clinical study.
- CVRx: Hope 4 HF, Jean Starr, M.D., PI - Heart failure trial for carotid baroreceptor device.
- CREST-Z Trial: Jean Starr, M.D., PI - Randomized, multicenter, controlled trial to compare carotid intervention to medical management.
- KCI Provena: Jean Starr, M.D. PI – Effects of Provena therapy on reduction of groin surgical site infections in obese and/or diabetic patients undergoing vascular surgery.
- Treovance: Mounir Haurani, M.D., PI - Clinical study of the safety and performance of the Bolton Medical Treovance stent graft with Navitel delivery system for patients with infrarenal AAA.
- National Institute of Health: Cameron Rink, PhD PI - Nanotechnology-based non-viral derivation of induced endothelium for ischemic disorders.
Additional Information

Scholarship has always been a point of emphasis in our Division. In particular, Bhagwan Satiani, M.D., M.B.A. (upper right) has written and presented extensively in the areas of the business of medicine, workforce issues, health care policy, and administration and has become an acknowledged regional and national expert.

Clinically, we consistently enroll high numbers of patients in multicenter clinical trials and registries, and have recently renewed our focus on outcomes research, especially utilizing the Vascular Quality Initiative database.

Researcher Cameron Rink, Ph.D. (lower right) has expanded our scientific focus to include the basic mechanisms of stroke infarct evolution and exciting translational applications of oxygen and nutrient therapy to treat stroke. He also has a newer focus on the mechanics of prosthetic development.
Faculty

Patrick S. Vaccaro, M.D., M.B.A.
Chief, Division of Vascular Diseases and Surgery;
Luther M. Keith Professor of Surgery
B.S.: Yale University, New Haven, Conn., 1971
M.D.: University of Cincinnati, Cincinnati, Ohio, 1975
M.B.A.: The Ohio State University Fisher College of Business, Columbus, Ohio, 2013
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 Interests: General vascular surgery, endovascular surgery, thoracic and abdominal aneurysms
Research Interests: Clinical trials

Hosam F. El Sayed, M.D., Ph.D.
Associate Professor of Clinical Surgery
Associate Program Director, General Vascular Surgery Fellowship
B.S.: University of Cairo, School of Medicine
M.D.: University of Cairo, School of Medicine
Ph.D.: General surgery, University of Cairo, School of Medicine
Specialty Training: General surgery residency, University of Cairo and The Ohio State University, Columbus, Ohio; Vascular surgery fellow, Eastern Virginia Medical School
Appointment: 2015
Specialty Interests: Complex aortic disease, limb salvage, complex endovascular interventions, complex vascular access procedures, minimally invasive venous interventions and non-invasive vascular lab diagnosis.
Research Interests: Outcome clinical research, complex aortic endograft therapy for thoracic and abdominal aortic disease, endovascular lower extremity revascularization, evaluation and adoption of new technologies and therapies in vascular surgery.

Michael R. Go, M.D.
Associate Professor of Clinical Surgery
Medical Director, Vascular Surgery OSU Hospital East
B.S.: Duke University, Durham, N.C., 1996
M.D.: University of Cincinnati, Cincinnati, Ohio, 2000
M.S.: The Ohio State University, Columbus, Ohio, 2005
Specialty Training: Residency in general surgery, The Ohio State University, Columbus, Ohio; fellowship in vascular surgery, University of Pittsburgh, Pittsburgh, Pa.
Appointment: 2008
Specialty Interests: General vascular surgery, endovascular surgery, limb salvage preservation
Research Interests: Endovascular surgery, stem cell research

Mounir J. Haurani, M.D.
Assistant Professor of Clinical Surgery
B.S.: University of Michigan, Ann Arbor, Mich., 1998
M.D.: Wayne State University School of Medicine, Detroit, Mich., 2002
Specialty Training: Residency in general surgery, Henry Ford Hospital, Detroit, Mich.; research fellowship, Henry Ford Hospital, Detroit, Mich.; clinical and research fellowship in surgery, Massachusetts General Hospital and Harvard Medical School, Boston, Mass.
Appointment: 2011
Specialty Interests: Aneurysms, carotid disease, venous obstructive disease, peripheral vascular disease, complex endovascular revascularization, IVC filter retrieval and placement.
Research Interests: Surgical education, clinical outcomes reactive oxygen species and neointimal hyperplasia.
Cameron L. Rink, Ph.D.
Associate Professor of Surgery
Ph.D.: The Ohio State University, Columbus, Ohio, 2008
Appointment: 2009
Research Interests: Intersections of human nutrition, stroke, and vascular disease

Bhagwan Satiani, M.D., M.B.A.
Professor of Clinical Surgery
Director of Non-Invasive Laboratories
Undergraduate Degree: Shah Abdul Latif College, Mirpurkhas, Pakistan, 1964
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 Interests: Non-invasive vascular studies and diagnoses, healthcare economics, business aspects of medicine
Research Interests: Medical economics

Jean E. Starr, M.D.
Associate Professor of Clinical Surgery
Director of Endovascular Services
Program Director, General Vascular Surgery Fellowship
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 Interests: Vascular and endovascular surgery, intervention procedures, thoracic and abdominal aneurysms
Research Interests: Endovascular trials

For an application or more information on the vascular training program, contact the address below. This division also participates in the ERAS registration program. Selected applicants will be invited for a personal interview.

Dawn M. Sagle
Residency Coordinator
Division Administrator
701 Prior Hall
376 West 10th Avenue
Columbus, OH 43210
Phone: (614) 293-8536
Fax: (614) 293-8902
Dawn.Sagle@osumc.edu
Alumni List of Vascular Fellows
THE OHIO STATE UNIVERSITY WEXNER MEDICAL CENTER
AND COLLEGE OF MEDICINE
DIVISION OF VASCULAR DISEASES & SURGERY

1984-1985 Benson Harvey, MD
1987-1988 Alan J. Annenberg, MD
1988-1989 William R. Finklemeier, MD
1989-1990 Edward E. Rigdon, MD
1989-1990 Douglas W. Massop, MD
1990-1992 Matthew L. Lukens, MD
1991-1993 John D. Horowitz, MD
1992-1994 J. Chadwick Tober, MD
1993-1995 Deepak Gupta, MD
1995-1996 George Geroulakos, MD
1996-1997 David S. Landau, MD
1997-1998 Stavros Kalliafas, MD
1998-1999 Norman Kuminis, MD
1999-2000 Randy J. Irwin, MD
2000-2001 Dawn M. Salvatore, MD
2001-2002 Bart A. Chess, MD
2002-2003 Deepak Guttikonda, MD
2003-2004 David J. Finley, MD
2004-2005 John S. Foor, MD
2005-2006 Kenneth J. Wright, MD
2006-2007 Nnamdi Azie, MD
2006-2007 Gregory W. Walker, MD
2007-2009 Richard R. Fries, MD
2008-2010 Siddharth K. Bhende, MD
2009-2011 Maria Litzendorf, MD
2010-2012 Joseph Habib, MD
2011-2013 Alex Thors, MD
2012-2014 Nicolas Mouawad, MD
2013-2015 Loren Masterson, MD
2014-2016 Babatunde Oriowo, MD
2015-2017 Suzanne A. Siefert-Kool, MD
2016-2018 Ghaleb Darwazeh, MD
2017-2019 Daisy Chou, MD
Life in Columbus
This list of useful websites will provide you and your family some information that will acquaint you with Columbus

General Information – OSU
OSU Human Resources hr.osu.edu/benefits/
OSU Map www.osu.edu/map/
OSU Medical Center medicalcenter.osu.edu/
OSU Office of Academic Affairs oaa.osu.edu/
OSU Vascular Surgery surgery.osu.edu/vascular/

Columbus Web Pages
City of Columbus ci.columbus.oh.us
Columbus City Guide columbus.citysearch.com
Columbus rankings www.columbus-chamber.org/columbus/
Greater Columbus Convention & Visitors Bureau www.columbuscvb.org/
Greater Columbus Chamber of Commerce www.columbus.org/
Columbus, Ohio www.liveworkplaycolumbus.com

Schools
Educational Council site has links to most public schools in the central OH area. www.edcouncil.org/

Ohio Web Pages
Travel Ohio Internet Guide www.travelohio.com/
Ohio Tourism consumer.discoverohio.com/
State of Ohio ohio.gov/
Ohio’s Home Page www.ohio.com/

Banks
Bank of America: www.bankofamerica.com/
Chase www.chase.com/
Credit Union of Ohio www.cuofohio.org/
Guernsey Bank: www.guernseybank.com/
Fifth Third 53.com/
First Community Bank www.firstcommunitybank.com/
Huntington www.huntington.com/pcf/banks_in_columbus.htm
Key Bank www.key.com/
Park National Bank www.parknationalbank.com
PNC Bank www.pnc.com
U.S. Bank www.usbank.com

Childcare
OSU Child Care Center hr.osu.edu/childcare/
Ohio Jobs & Family Services Information jfs.ohio.gov/

Employment opportunities for spouses/family
OSU www.jobs.osu.edu/
General – Columbus Dispatch www.ohgetit.com/
State of Ohio ohio.gov/
Dept of Development www.development.ohio.gov
Education www.ode.state.oh.us
Chronicle of Higher Education www.chronicle.com
Industry Cardinal Health www.cardinal.com/
Honda American www.hondaameric.com/
Limited www.limitedbrands.jobs/
Nationwide www.nationwide.com/careers
Medical Ohio State www.jobs.osu.edu/
Nationwide Children’s Hospital www.nationwidechildrens.org/healthcare-career-opportunities
Mt Carmel/St. Ann’s www.mountcarmelhealth.com/
Ohio Health (Grant/Riverside) www.ohiohealth.com/jobs

Continued on back
Life in Columbus continued

Arts & Music
OSU theater                      theatre.osu.edu/
Wexner Center                   www.wexarts.org/
BalletMet                        www.balletmet.org
Center for Science and Industry www.cosi.org/
Columbus Arts                   www.columbusarts.com/
Columbus Association of the Performing Arts www.capa.com
Columbus Blues Alliance        www.colsbluesalliance.org
Columbus Events                www.experiencecolumbus.com/
Columbus Museum of Art          www.columbusmuseum.org
Columbus Symphony Orchestra    www.columbussymphony.com/
Greater Columbus Arts Council   www.gcac.org
Ohio Dance                      ohiodance.org
Opera Columbus                  www.operacolumbus.org/

Housing
Columbus Bd of Realtors        columbusrealtors.com/
Apartment Guide                www.apartmentguide.com
                           www.forrent.com
                           www.livingchoices.com
                           www.forsalebyowner.com

Newspapers & Publications
Columbus Dispatch              www.dispatch.com
Columbus Alive                  www.columbusalive.com
The Daily Reporter              www.thedailyreporteronline.com/
Columbus Free Press            www.freepress.org
OSU - The Lantern               www.thelantern.com
The Other Paper                 www.theotherpaper.com
Suburban News                   www.snponline.com

Organizations
American Red Cross of Greater Columbus www.columbus.redcross.org/
Capital Humane Society          www.cahs-pets.org
Habitat for Humanity            www.habitatcolumbus.org
Ohio Environmental Council     www.theoec.org

Parks, Zoo & Recreation
OSU Recreation Sports          recsports.osu.edu/
Bike Paths                     www.dot.state.oh.us/bike/
Center for Science and Industry www.cosi.org/
Columbus & Franklin County Parks www.metroparks.net/
Columbus Outdoor Pursuits      www.outdoor-pursuits.org/
Columbus Recreation & Parks    parks.columbus.gov/
Columbus Road Runners          www.columbusroadrunners.org
Columbus Zoo                   www.colszoo.org
Ohio Department of Natural Resources www.ohiodnr.com/parks

Sports
Ohio State Buckeyes            www.ohiostatebuckeyes.com/
Columbus Blue Jackets – Ice Hockey bluejackets.nhl.com/
Columbus Clippers Baseball    www.clippersbaseball.com
Columbus Crew – Soccer         www.thecrew.com
Nationwide Arena               www.nationwidearena.com
Schottenstein Center           www.schottensteincenter.com/
Columbus Marathon              www.columbusmarathon.com

Useful sites for relocating to Columbus
Electric/Water/Phone            www.ohioelectricchoice.com/
Cable/Phone                     www.moveutilities.com/
Bureau of Motor Vehicles       www.bmv.ohio.gov/
Voter Registration              www.sos.state.oh.us/SOS/voter.aspx