About the Division
Our Mission

The Division of Vascular Surgery at the University of Florida is committed to providing the highest quality of cutting edge vascular surgical care, training the next generation of preeminent vascular surgeons, and engaging in research that will generate seminal contributions allowing better understanding and treatment of vascular diseases in the future.
About the Division

Standards of Excellence

Clinical Care

Research

Education
About the Division

Gainesville Clinical Faculty

Thomas S. Huber, MD, PhD
Professor and Chief

Medical School:
University of Michigan
Residency:
University of Michigan
Fellowship:
University of Michigan

Gilbert R. Upchurch, Jr., MD
Professor and Chair of Surgery

Medical School:
UNC-Chapel Hill
Residency:
Brigham and Women’s
Fellowship:
Brigham and Women’s

Martin R. Back, MD, MS
Professor

Medical School:
UCLA
Residency:
UCLA
Fellowship:
University of Florida
About the Division

Gainesville Clinical Faculty

Scott A. Berceli, MD, PhD
Professor and Chief VAMC
Medical School:
University of Pittsburgh
Residency:
Beth Israel Deaconess
Fellowship:
University of Washington

Salvatore T. Scali, MD
Associate Professor
Medical School:
Georgetown University
Residency:
Beth Israel Deaconess
Fellowship:
Dartmouth Hitchcock

Kristina A. Giles, MD
Assistant Professor
Medical School:
Mount Sinai
Residency:
Beth Israel Deaconess
Fellowship:
Dartmouth Hitchcock
About the Division

Gainesville Clinical Faculty

Samir Shah, MD, MPH
Assistant Professor

Medical School:
Baylor

Residency:
Cleveland Clinic

Fellowship:
Brigham and Women’s

Dean Arnaoutakis, MD, MBA
Assistant Professor

Medical School:
Cornell

Residency:
Johns Hopkins

Fellowship:
Brigham and Women’s

Michol Cooper, MD, PhD
Assistant Professor

Medical School:
University of Cincinnati

Residency:
Johns Hopkins

Fellowship:
Massachusetts General
About the Division

Halifax Clinical Faculty

Robert J. Feezor, MD
Associate Professor

Medical School:
Medical College of Virginia
Residency:
University of Florida
Fellowship:
University of Florida

Michael Yacoub, MD
Assistant Professor

Medical School:
Ross University
Residency:
St John Hospital
Fellowship:
West Virginia University
Charleston Division
About the Division

Research Faculty

Research – UF College of Medicine
• Ashish K. Sharma, MBBS, PhD, Associate Professor
• Kerri O’Malley, PhD, Assistant Professor
• Zhihua Jiang, PhD, Assistant Professor
• Yong He, PhD, Assistant Professor
• Guanyi Lu, MD, PhD, Associate Professor
Vascular Fellowship
Our mission is to produce a modern vascular surgeon with the necessary technical skills in both open vascular surgery and endovascular therapies to independently handle the entire gamut of vascular pathologies.

These technical skills are backed by a broad knowledge base of the fundamental vascular literature through a structured program of didactic and interactive case conferences.

The Fellowship program has been designed to accommodate applicants with future interests in either academic vascular surgery or private practice and past graduates have been successful in both arenas.
Vascular Fellowship

Current Fellows

2nd Year Fellows

Zain Shahid, MD
Residency: UTSW

Kenneth DeSart, MD
Residency: UF

1st Year Fellows

Jon Rehfuss, MD
Residency: UF

Derek Klarin, MD
Residency: MGH
Standards of Excellence: Clinical Care
## Clinical Care

### Fellowship Rotations

<table>
<thead>
<tr>
<th>Open Vascular (Shands)</th>
<th>Endovascular (Shands)</th>
<th>“Hybrid fellow” (Shands)</th>
<th>VAMC</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Runs clinical service</td>
<td>• Assists with clinical service</td>
<td>• Assists with clinical service</td>
<td>• Endovascular cases at the VAMC</td>
</tr>
<tr>
<td>• Majority of “open” cases</td>
<td>• Majority of “endo” cases</td>
<td>• Clinic on Wednesday</td>
<td>• Vascular Ultrasound</td>
</tr>
<tr>
<td>• Clinic on Friday</td>
<td>• Clinic on Tuesday</td>
<td></td>
<td>• Resource for PGY-4</td>
</tr>
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</table>
## Fellows’ Weekly Schedule

<table>
<thead>
<tr>
<th></th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UF Open</strong></td>
<td>OR 5</td>
<td>OR 5</td>
<td>OR 5</td>
<td>OR 5</td>
<td>Clinic</td>
</tr>
<tr>
<td><strong>UF Endo</strong></td>
<td>OR 9</td>
<td>Clinic</td>
<td>OR 9</td>
<td>OR 9</td>
<td>OR 5/9</td>
</tr>
<tr>
<td><strong>UF Hybrid</strong></td>
<td>OR 10</td>
<td>OR 9/10</td>
<td>OR 10</td>
<td>OR 10</td>
<td>OR 10</td>
</tr>
<tr>
<td><strong>VAMC</strong></td>
<td>VAMC</td>
<td>VAMC</td>
<td>VAMC</td>
<td>VAMC</td>
<td>Clinic</td>
</tr>
</tbody>
</table>

Room 5 – Traditional operating room  
Room 9 – hybrid fixed imaging suite  
Room 10 – hybrid fixed imaging suite
Clinical Care

“Open” Fellow

- Primary management of the Shands/UF inpatient service (endovascular + open)
- Emphasis on open cases performed at Shands/UF
- Call – q5 (ENDO/VAMC/HYBRID/Resident)
- UF Health Vascular Clinic (Friday)
Clinical Care

“Endovascular” Fellow

• Focus on endovascular cases at Shands/UF
• Call – q5 (OPEN/VAMC/Resident)
• UF Health Vascular Clinic (Tuesday)
Clinical Care

“Hybrid” Fellow

- Focus on open and endovascular cases at Shands/UF
- Call q5 (OPEN/ENDO/HYBRID/Resident)
- UF Health Vascular Clinic (Wed)
Clinical Care

VAMC Fellow

- All endovascular and hybrid cases at VAMC
- Vascular laboratory/advanced imaging
- RPVI requirement
- VAMC vascular clinic (Fri)
- Call q5 (OPEN/ENDO/HYBRID/Resident)
- Backup 4th year Resident at VAMC
Clinical Care

UF/Health Vascular Team

- Attending's (Huber, Back, Arnaoutakis, Upchurch, Cooper, Shah)
- Vascular Fellows/General Surgery Residents
- Nurse Practitioners/Physician Assistants
- Research Coordinators
- Vascular Technologists (8500 studies/year)
- Discharge Coordinator/Social Worker
- Dedicated OR personnel
- Electronic medical record (EPIC)
Clinical Care

VAMC Vascular Team

- Attending's (Berceli, Giles, Scali)
- Vascular Fellow/General Surgery Residents
- Physician Assistant/Nurse Practitioner
- Nurse Research Coordinators
- Vascular Technologists (2500 case/year)
- Electronic medical record (CPRS)
- Dedicated endovascular suite
Clinical Care

Vascular Service – Residents ‘19-’20

- Shands/UF Health
  - 3 Vascular Fellows
  - 1 PGY-3
  - 2 PGY-1

- Malcom Randall VAMC
  - 1 Vascular Fellow
  - PGY-4 Chief Resident
  - PGY-1
Clinical Care

UF/Health Shands Hospital

- Clinical enterprise
- Teaching Hospital
- Tertiary care center
- Aortic Treatment Center
- Excellent referral base
- Level I Trauma
- Critical Care Service
Clinical Care

UF Health Imaging Laboratory

- TeraRecon Aquarius workstations
- Cardiology Web digital image workstation - US
Clinical Care

Case Volumes – UF/Health & VAMC

- UF/Shands
- VAMC

Year

'02-'03  '03-'04  '04-'05  '05-'06  '06-'07  '07-'08  '08-'09  '09-'10  '10-'11  '11-'12  '12-'13  '13-'14  '14-'15  '15-'16  '16-'17  '17-'18  '18-'19

#cases

0  500  1000  1500  2000  2500
Clinical Care

Open Vascular Procedures

Total Open cases—Shands (2018-2019)

- 211 Aortic
- 81 Carotid/cerebrovascular
- 265 Distal revascularization
- 51 Visceral revascularization
- 260 Dialysis
- 372 Amputations

1240 OPEN CASES
Endovascular Procedures

UF/Health (2018-2019)
- 174 Aortic
- 175 Peripheral

VAMC (2018-2019)
- 58 Aortic
- 118 Peripheral
Clinical Care

Endovascular Procedures

Therapeutic Case Mix (PVOD)

- Carotid stents
- Arch vessel interventions
- Renal/visceral interventions
- Aorto-iliac interventions
- Infrainguinal interventions
- Dialysis-related interventions
- IVC filters
- Venous interventions (AVM, Complex Venous Occlusive)
- Others
Clinical Care

Aortic Volume at UF/Health

Year

#cases

Open

Endovascular
# Fellow Case Volumes (Primary + Secondary)

<table>
<thead>
<tr>
<th>Graduating Year</th>
<th>Index case number</th>
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<tbody>
<tr>
<td>2007</td>
<td>780</td>
</tr>
<tr>
<td>2008</td>
<td>738</td>
</tr>
<tr>
<td>2009</td>
<td>845</td>
</tr>
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<td>2010</td>
<td>721</td>
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<tr>
<td>2011</td>
<td>841</td>
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<td>2012</td>
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<td>2013</td>
<td>846</td>
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<td>2014</td>
<td>1047</td>
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<tr>
<td>2015</td>
<td>775</td>
</tr>
<tr>
<td>2016</td>
<td>902</td>
</tr>
<tr>
<td>2017</td>
<td>1027</td>
</tr>
<tr>
<td>2018</td>
<td>1071</td>
</tr>
<tr>
<td>2019</td>
<td>971</td>
</tr>
</tbody>
</table>
# Clinical Care

**VS ACGME Case Volumes 2018-2019** [93 programs, 120 fellows]

<table>
<thead>
<tr>
<th>Category</th>
<th>RRC Minimum</th>
<th>National Average</th>
<th>UF Fellow (%)</th>
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<tbody>
<tr>
<td>Abdominal obstructive</td>
<td>30</td>
<td>32</td>
<td>45 (95)</td>
</tr>
<tr>
<td>Aneurysm [endo+open]</td>
<td>--</td>
<td>87</td>
<td>197 (99)</td>
</tr>
<tr>
<td>Cerebrovascular</td>
<td>25</td>
<td>69</td>
<td>60 (45)</td>
</tr>
<tr>
<td>Complex</td>
<td>10</td>
<td></td>
<td>199 (99)</td>
</tr>
<tr>
<td>Peripheral obstructive</td>
<td>45</td>
<td>202</td>
<td>235 (88)</td>
</tr>
<tr>
<td>Mesenteric/renal</td>
<td>--</td>
<td>14</td>
<td>40 (80)</td>
</tr>
<tr>
<td>Venous</td>
<td>20</td>
<td>48</td>
<td>67 (65)</td>
</tr>
<tr>
<td>Endovascular diagnostic</td>
<td>100</td>
<td>108</td>
<td>467 (99)</td>
</tr>
<tr>
<td>Endovascular therapeutic</td>
<td>80</td>
<td>98</td>
<td>350 (99)</td>
</tr>
<tr>
<td>Endovascular Aneurysm Repair</td>
<td>20</td>
<td>44</td>
<td>89 (92)</td>
</tr>
<tr>
<td>Vascular access (total)</td>
<td>15</td>
<td>76</td>
<td>165 (98)</td>
</tr>
<tr>
<td>Total operations</td>
<td>350</td>
<td>892</td>
<td>971</td>
</tr>
</tbody>
</table>
Clinical Care
Focus on Aortic Surgery

Predicted shortfall in open aneurysm experience for vascular surgery trainees

Anahita Dua, MD, MS, MBA, Gilbert R. Upchurch Jr, MD, Jason T. Lee, MD, John Eidt, MD, Sapan S. Desai, MD, PhD, MBA, Houston, Tex; Milwaukee, Wis; Charlottesville, Va; Stanford, Calif; Greenville, SC; and Durham, NC

".... Vascular fellows will complete 10 open aortic repair cases in 2015 and five in 2020 ..."


- Open Infrarenal AAA repair, Elective n = 8.2
- Open Infrarenal AAA repair, Rupture n = 2.6
- Aorto-iliac/femoral bypass, Obstructive, n = 8.0
- Open TAAA repair, n = 2.8

<table>
<thead>
<tr>
<th>UF Graduating Year</th>
<th>Percentile aortic aneurysm</th>
<th>Percentile abdominal obstructive</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>99</td>
<td>92</td>
</tr>
<tr>
<td>2018</td>
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<td>2017</td>
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<td>92</td>
</tr>
<tr>
<td>2016</td>
<td>99</td>
<td>97</td>
</tr>
<tr>
<td>2015</td>
<td>99</td>
<td>90</td>
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# Clinical Care

## Typical Week (1/12-1/17)

### Sunday
- Iliac stent, Fem-tibial bypass
- Fem/pop embolectomy, SFA pseudoaneurysm repair
- SMA stent

### Monday
- **NAIS**
- Carotid subclavian bypass
- Brachiocephalic AVF
- L5-S1 spine exposure
- L4-S1 spine exposure
- L3-L5 spine exposure
- Brachial thromboembolectomy
- 2\textsuperscript{nd} stage brachiobasilic AVF
- EVAR revision
- Iliac stent
- SFA angioplasty
- IMA stent

### Tuesday
- Open juxta-renal AAA repair
- AV fistulogram, angioplasty
- AVF revision
- Mesenteric angiogram
- Stab phlebectomy
- GSV ligation and stab phlebectomy
- Venous thrombolysis, angioplasty
- RP wound washout
- BKA
- BKA
- BKA

### Wednesday
- **EVAR, iliac branch device**
- TEVAR
- SMA stent, Accessory renal coiling
- FEVAR, EIA to SMA bypass
- TEVAR
- Thoracic dual branch endograft
- Thrombolysis check

### Thursday
- AVF ligation
- Ilio-profunda bypass with femoral vein
- Fem-pop with vein
- Fem-pop with vein
- Abdominal washout and closure
- RFA and stab phlebectomy
- Carotid subclavian bypass
- Carotid-axillary bypass
- AV fistulogram, angioplasty
- AV fistulogram, angioplasty
- Venogram
- Brachial bypass with vein
- 2\textsuperscript{nd} stage brachiobasilic AVF

### Friday
- Ilio-profunda bypass with femoral vein
- **Aortobifemoral bypass**
- **Thoracic dual branch endograft**
- Thrombolysis check, angioplasty
- AV fistulogram, angioplasty
- AVG ligation
- Toe amp
- Toe amp
Standards of Excellence: Education
Clinical Curriculum (APDVS)*

- Aneurysms (4 mos)
- PAOD (4 mos)
- Renal (1 mos)
- Mesenteric (1 mos)
- CVOD (3 mos)
- Venous (3 mos)
- Diagnostic (1 mos)

- Trauma (1 mos)
- Complications (1 mos)
- Risk/non-op (1 mos)
- Hematology (1 mos)
- Hemodialysis (1 mos)
- Clin Science (1 mos)
- Other (1 mos)

*Pilot Site for VSCORE Academic Year 2019-2020
# Vascular Surgery Conference Schedule

**February 2020**

<table>
<thead>
<tr>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
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<th>Saturday</th>
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<tr>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>7:00a Pre-op HVH 6546</td>
<td>7:00a Aortic Treat HVH 6546</td>
<td>7:00a Case Conference HVH 6546</td>
<td>7:00a VSCORE, Rutherford Chaps 81, 82 HVH 6546</td>
<td>6:45a M&amp;M 7:15a Grand Rounds TCV Visiting Prof – Joseph Cleveland MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>7:00a Pre-op HVH 6546</td>
<td>7:00a Clinical Practice – Shands Faculty HVH 6546</td>
<td>7:00a Case Conference HVH 6546</td>
<td>7:00a VSCORE, Rutherford Chaps 76, 77, 78 HVH 6546</td>
<td>6:45a M&amp;M 7:15a Grand Rounds Surg Onc Visiting Prof - Jeffrey Dreben MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
</tr>
<tr>
<td>6 PM: Fellowship Interview Dinner</td>
<td>Fellowship Interview HVH 6546</td>
<td>7:00a Aortic Treat HVH 6546</td>
<td>7:00a M&amp;M HVH 6546</td>
<td>7:00a VSCORE, Rutherford/IVS Chaps 79, 80 HVH 6546</td>
<td>6:45a M&amp;M 7:15a Grand Rounds GI Visiting Prof – Ann Lowry MD</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
</tr>
<tr>
<td>7:00a Pre-op HVH 6546</td>
<td>7:00a Case Conference HVH 6546</td>
<td>7:00a VSCORE, Rutherford/Vasc Lab Chap 75 HVH 6546</td>
<td>6:45a M&amp;M 7:15a Grand Rounds Vas Visiting Prof – Ali AbuRahma MD</td>
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</table>
Education

Educational Block

- VSCORE/Rutherford
- Case conference
- VQI / Morbidity and mortality
- Vascular lab / RPVI preparation
- JVS conference
- Trauma / vascular conference (on hold, quarterly)
Education

Visiting Professors

Kimberley J. Hansen, M.D.
Michael S. Conte, M.D.
Louis Messina, M.D.
Ronald Dalman, M.D.
David M. Williams, M.D.
Gregorio A. Sicard, M.D.
Frank W. Logerfo, M.D.
Robert M. Zwolak, M.D.
Ronald M. Fairman, M.D.
Michael Lawrence-Brown, M.D.
Spence Taylor, M.D.
Joseph Mills, M.D.
Timothy A. M. Chuter, MD
Harry (Hal) Dietz, MD
Gerald B. Zelenock, MD
Richard P. Cambria, MD
Carlos Donayre, MD
Ali AbuRhama, MD
Standards of Excellence: Research
Research

Clinical Research Interests

- Aneurysm disease
- Aortic dissection
- Endovascular aortic repair
- Hemodialysis access
- Lower extremity bypass
- Nutritional modulation of inflammation and frailty
- Tertiary care vascular surgery

“Write about what you do...” - JMS
Research

Research - Clinical

- NIH Hemodialysis Fistula Maturation
- NIH BEST Chronic Limb Ischemia
- Vascular Quality Initiative
- VA Cooperative studies
- Industry-sponsored device trials
- Industry-sponsored pharmaceutical trials
Research

Fellow / Resident Research

Management of Patch Infections after CEA & Utility of Femoral Vein Interposition Bypass
Javairiah Fatima, Vincent Fedeico, Salvatore Scali, Robert Feezor, Scott Berceli, Kristina Giles, Dean Arnaoutakis, Martin Back, Gilbert Upchurch, Thomas Huber
SAVS, Scottsdale, Arizona, January, 2018

Outcomes of Antegrade and Retrograde Open Mesenteric Bypass for Acute Mesenteric Ischemia
Diego Ayo, Sal Scali, Kristina Giles, Sarah Gray, Paul Kubilis, Martin Back, Javairiah Fatima, Dean Arnaoutakis, Scott Berceli, Gib Upchurch, Robert Feezor, Thomas Huber
SAVS, Scottsdale, Arizona, January 2018

Contemporary Outcomes of Thoracofemoral Bypass
Jeffery Crawford, Salvatore Scali, K. Giles, M. Back, Javairiah Fatima, Dean Arnaoutakis, Scott Berceli, Gib Upchurch, Thomas Huber
SCVS, Las Vegas, March, 2018

Management of Complex Vascular Surgery Groin Wound Complications
Salim Lala, Salvatore Scali, K. Giles, M. Back, Javairiah Fatima, Dean Arnaoutakis, Scott Berceli, Gib Upchurch, Thomas Huber
SCVS, Boca Raton, FL 2019

Comparative Outcomes of Open, Hybrid, and Fenestrated Branched Endovascular Repair of Extent II and III Thoracoabdominal Aortic Aneurysms
Dean Arnaoutakis, Salvatore Scali, Adam Beck, Thomas Huber, Andrew Martin, Liza Laquian, Thomas Beaver, Gilbert Upchurch
SAVS, Boca Raton, FL, January 2019

Safety and Efficacy of Hybrid Thoracic Endovascular Aortic Repair for Management of Aberrant Subclavian Artery Complications
Sarah Gray, Salvatore Scali, Kristina Giles, Dean Arnaoutakis, Martin Back, Michol Cooper, Scott Berceli, Gilbert Upchurch, Thomas Huber, Javairiah Fatima.
SCVS, Boca Raton, FL 2019

Treatment Strategies and Outcomes of Infected Thoracoabdominal and Pararenal Aortic Aneurysms
Javairiah Fatima, Erik Anderson, Jeffrey Crawford, Michol Cooper, Salvatore Scali, Martin Back, Kristina Giles, Scott Berceli, Dean Arnaoutakis, Gilbert Upchurch, Thomas Huber
SCVS, Boca Raton, FL 2019

Management and Outcomes of Superior Mesenteric Artery Aneurysm Repair
Zachary Hodges, Javairiah Fatima, Salvatore Scali, Robert Feezor, Martin Back, Kristina Giles, Scott Berceli, Michol Cooper, Dean Arnaoutakis, Thomas Huber, Gilbert Upchurch
SCVS, Boca Raton, FL 2019
Research

Vascular Database

OR Scheduler  Enter Faculty Days Out

- Main Switchboard
- Endovascular AAA Registry
- Endovascular TAA Registry
- VA Endo AAA F/U List
- VIEW Endovascular Case List
- VIEW Shands Morbidity and Mortality List
- VIEW VA Morbidity and Mortality List
- VIEW Morbidity/Mortality Summary Report

effective since July 1, 2002
Research
Research - Translational

- Industry/University Cooperative Research Center - Computational Biology and Surgical Innovation
- Genomic determinants of revascularization failure
- Shear stress and the localization of vein graft lesions
- Biologic mechanisms underlying ARHI
- Biomechanics of advanced stent graft repair
- Biomarkers of spinal cord ischemia
- Short-term protein calorie restriction & immunomodulation
- In-vivo drug US-guided drug delivery

Support in recent years NIH, NSF, VA, Industry
Research

Research – Basic Science

- Hemodynamics and vascular remodeling
- Systems biology
- Inflammation and immune response
- Molecular basis for aneurysm development
- Aortic Dissection Disease
- Biology of Frailty
- Biology of Access Related Hand Ischemia
Lifestyle and Amenities
Lifestyle and Amenities

Fellow Support

- Computer/laptop
- Administrative support
- Educational support
- Travel - anticipated (SVS, SAVS, FVS)
- Travel – presentations
- Rutherford’s Vascular Surgery
- Journal of Vascular Surgery

- Pellerito & Polak 6th Ed. Intro Vascular Ultrasound
- Equipment (i.e. apron, glasses, coats, cards)
- Discretionary funds (~$1000/yr)
Lifestyle and Amenities

Gainesville, Florida

- College town
- Great sports
- Great weather
- Affordable, quality housing
- Excellent for families
- Great weekend getaway spots
Lifestyle and Amenities

Future Directions

• Sustained clinical growth
  • Cardiovascular Center
  • Heart and Vascular Hospital
  • Aortic Treatment Center
  • Limb Salvage initiative
• Continued academic emphasis
Thank You and Welcome!

Tradition of excellence
Rich educational experience
Supportive environment