About the Division
“Our mission is to produce a modern vascular surgeon with the necessary technical skills in open vascular surgery and endovascular therapies in order to independently manage the entire spectrum of vascular disease. These technical skills are backed by a broad knowledge base of the fundamentals of 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.”
About the Division

Standards of Excellence

Clinical Care

Research

Education
About the Division

Gainesville Clinical Faculty

Martin R. Back, MD, MS
Professor and Chief
Medical School:
UCLA
Residency:
UCLA
Fellowship:
University of Florida

Thomas S. Huber, MD, PhD
Professor
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

American Board of Surgery
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
Professor
Program Director

Medical School:
Georgetown
Residency:
Beth Israel Deaconess
Fellowship:
Dartmouth

Michol Cooper, MD, PhD
Assistant Professor

Medical School:
University of Cincinnati
Residency:
Johns Hopkins
Fellowship:
Massachusetts General
About the Division

Gainesville Clinical Faculty

Samir Shah, MD, MPH
Assistant Professor
Medical School:
Baylor
Residency:
Cleveland Clinic
Fellowship:
Brigham and Women’s

Zain Shahid, MD
Assistant Professor
Medical School:
Aga Khan University
Residency:
UT-Southwestern
Fellowship:
University of Florida

Ben Jacobs, MD
Assistant Professor
Medical School:
University of Toledo
Residency:
Michigan
Fellowship:
Dartmouth

Scott Robinson, MD, PhD
Assistant Professor
Medical School:
Emory
Vascular Residency:
Michigan
About the Division

Halifax Clinical Faculty

Robert J. Feezor, MD
Associate Professor and Chief

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

Felipe Cadavid, MD
Assistant Professor

Medical School:
Florida State
Residency:
University of Florida
Fellowship:
UAB
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, Associate Professor
• Yong He, PhD, Assistant Professor
• Guanyi Lu, MD, PhD, Associate Professor
Vascular Fellowship
Current Fellows

2nd Year Fellows

Morgan Cox, MD
Residency: Duke

Christopher Jacobs, MD
Residency: UF
Vascular Fellowship

Current Fellows

1st Year Fellows

Sarah Gray, MD
Residency: UF

Brian Gilmore, MD
Residency: Duke

Drew Martin, MD
Residency: UF
Vascular Fellowship

Incoming Fellows

Kha Tran, MD
Residency: University of Chicago

Derek Leaderer, MD, PhD
Residency: UF
Standards of Excellence: Clinical Care
### Clinical Care

#### Vascular Service – House Officer Complement ‘22-’23

<table>
<thead>
<tr>
<th>Location</th>
<th>Fellows</th>
<th>Residents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shands/UF Health</td>
<td>4 Vascular Fellows</td>
<td>1 PGY-3, 2 PGY-1</td>
</tr>
<tr>
<td>Malcom Randall VAMC</td>
<td>1 Vascular Fellow</td>
<td>PGY-4 Chief Resident, PGY-1</td>
</tr>
<tr>
<td>UF/Halifax Transition to Practice</td>
<td>1 Vascular Fellow</td>
<td>1 Alternating block scheme w/ UF Flex rotation</td>
</tr>
</tbody>
</table>

Still planning not finalized
# Clinical Care

## Current Vascular Fellowship Rotations

<table>
<thead>
<tr>
<th>UF ‘Open’</th>
<th>UF ‘Endo’</th>
<th>UF ‘Consult’</th>
</tr>
</thead>
</table>
| - Runs clinical service  
- Majority of “open” cases  
- Clinic on Friday | - Assists with clinical service  
- Majority of “endo” cases  
- Clinic on Tuesday | - Assists with consult service  
- Clinic on Wednesday |

<table>
<thead>
<tr>
<th>VAMC</th>
<th>UF ‘Flex’</th>
</tr>
</thead>
</table>
| - Endovascular cases  
- Vascular Ultrasound  
- Teaching conference  
- Resource for PGY-4 | - UF PMEG program  
- Case planning  
- Vein practice  
- Clinic on Thursday |
## Clinical Care

### Current Fellowship Rotation Block Schedule

<table>
<thead>
<tr>
<th>Start Date</th>
<th>End Date</th>
<th># of weeks</th>
<th>UF OPEN 1° Service Clinic Fri</th>
<th>UF ENDO Pre-op Clinic Tue</th>
<th>UF CONSULTS Clinic Wed</th>
<th>UF FLEX Clinic Thur (PMEG/veins)</th>
<th>VA Clinic Fri</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/1/2022</td>
<td>9/18/2022</td>
<td>7</td>
<td>Cox</td>
<td>Gray</td>
<td>Jacobs</td>
<td>Gilmore</td>
<td>Martin</td>
</tr>
<tr>
<td>9/19/2022</td>
<td>10/23/2022</td>
<td>5</td>
<td>Gray</td>
<td>Jacobs</td>
<td>Martin</td>
<td>Cox</td>
<td>Gilmore</td>
</tr>
<tr>
<td>10/24/2022</td>
<td>11/27/2022</td>
<td>5</td>
<td>Jacobs</td>
<td>Cox</td>
<td>Gilmore</td>
<td>Martin</td>
<td>Gray</td>
</tr>
<tr>
<td>11/28/2022</td>
<td>1/1/2023</td>
<td>5</td>
<td>Martin</td>
<td>Gilmore</td>
<td>Cox</td>
<td>Gray</td>
<td>Jacobs</td>
</tr>
<tr>
<td>1/2/2023</td>
<td>2/5/2023</td>
<td>5</td>
<td>Gilmore</td>
<td>Martin</td>
<td>Gray</td>
<td>Jacobs</td>
<td>Cox</td>
</tr>
<tr>
<td>2/6/2023</td>
<td>3/12/2023</td>
<td>5</td>
<td>Gray</td>
<td>Cox</td>
<td>Martin</td>
<td>Gilmore</td>
<td>Jacobs</td>
</tr>
<tr>
<td>3/13/2023</td>
<td>4/16/2023</td>
<td>5</td>
<td>Cox</td>
<td>Gilmore</td>
<td>Jacobs</td>
<td>Martin</td>
<td>Gray</td>
</tr>
<tr>
<td>4/17/2023</td>
<td>5/21/2023</td>
<td>5</td>
<td>Jacobs</td>
<td>Martin</td>
<td>Gilmore</td>
<td>Gray</td>
<td>Cox</td>
</tr>
<tr>
<td>5/22/2023</td>
<td>6/25/2023</td>
<td>5</td>
<td>Gilmore</td>
<td>Gray</td>
<td>Cox</td>
<td>Jacobs</td>
<td>Martin</td>
</tr>
<tr>
<td>6/26/2023</td>
<td>7/31/2023</td>
<td>5</td>
<td>Martin</td>
<td>Jacobs</td>
<td>Gray</td>
<td>Cox</td>
<td>Gilmore</td>
</tr>
</tbody>
</table>

*Schedule generated by 2nd year fellows in coordination with 1st year fellows and PD*
# Fellows’ Weekly UF/Health Shands Schedule

<table>
<thead>
<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>UF ‘Open’</td>
<td>OR</td>
<td>OR</td>
<td>OR</td>
<td>OR Clinic</td>
</tr>
<tr>
<td>UF ‘Endo’</td>
<td>OR Clinic</td>
<td>OR</td>
<td>OR OR Clinic</td>
<td>OR OR Clinic</td>
</tr>
<tr>
<td>UF ‘Consult’</td>
<td>OR OR Clinic</td>
<td>Clinic OR</td>
<td>OR OR Clinic</td>
<td>OR OR Clinic</td>
</tr>
<tr>
<td>UF ‘Flex’</td>
<td>PRN OR Clinic</td>
<td>OR OR Clinic</td>
<td>Clinic OR</td>
<td>OR OR Clinic</td>
</tr>
<tr>
<td>VA Fellow</td>
<td>OR OR Clinic</td>
<td>Research/Vasc</td>
<td>OR OR Clinic</td>
<td>Clinic OR</td>
</tr>
<tr>
<td>VA Chief Resident</td>
<td>OR OR Clinic</td>
<td>OR OR Clinic</td>
<td>OR OR Clinic</td>
<td>Clinic OR</td>
</tr>
</tbody>
</table>

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

UF/Health Vascular Team

- Attending’s (Back, Huber, Upchurch, Cooper, Shah, Shahid, Jacobs)
- Vascular Fellows (4) /General Surgery Residents (PGY3, PGY1 x2)
- Advanced Practice Providers
- Research Coordinators (2)
- Vascular Technologists (~8700 studies/year)
- Discharge Coordinator/Social Worker
- Dedicated OR personnel
- Electronic medical record (EPIC)
## Clinical Care

### Possible Future Fellowship Rotations

<table>
<thead>
<tr>
<th>Rotation</th>
<th>Description</th>
</tr>
</thead>
</table>
| **UF ‘Open’**   | • Runs clinical service  
                  • Majority of “open” cases  
                  • Clinic on Friday          |
| **UF ‘Endo’**   | • Assists with clinical service  
                  • Majority of “endo” cases  
                  • Clinic on Tuesday         |
| **UF ‘Consult’**| • Assists with consult service  
                    • Clinic on Wednesday       |
| **VAMC**        | • Endovascular cases  
                  • Vascular Ultrasound  
                  • Teaching conference  
                  • Resource for PGY-4      |
| **UF ‘Flex’ & Transition to Practice** | • UF PMEG program alternate with UF/Halifax  
                                             • Case planning  
                                             • Vein practice  
                                             • Clinic on Thursday |
Clinical Care

Transition to Practice (planning)

• One time per year per fellow at UF/Halifax (~5 week block or 10 weeks in 2 years/fellow)
• Plan to have apartment/food allowance
• Busy practice with spectrum of vascular care
• Practice Development & Education
• RVU/Billing Instruction
• Vascular clinic
• Call – 1 weekend out of 5
• “Junior Faculty Role”
• In alternating month, will be at UF/Health Shands, to have focused PMEG, vein practice, vascular lab and clinical research experience

~100 miles
2 hour drive
[plan to stay at apartment M-F]
Clinical Care

VAMC Vascular Team

- Attending's (Berceli, Robinson, Scali)
- Vascular Fellow (1)/General Surgery Residents (PGY4, PGY1)
- Physician Assistants (2)
- Research Coordinators (3)
- Vascular Technologists (~2500 studies/year)
- Electronic medical record (CPRS)
- Dedicated endovascular suite
Clinical Care

UF/Health Shands Hospital

- Clinical enterprise (>1000 beds)
- Teaching Hospital
- Tertiary care center
- Aortic Treatment Center
- Excellent referral base
- Level I Trauma
- Critical Care Service
Artis zee- Siemens Fixed Imaging Hybrid OR
Clinical Care

UF Health Imaging Laboratory

- TeraRecon Aquarius workstations
- Cardiology Web digital image workstation - US
Case Volumes – UF/Health & VAMC

Clinical Care

AY’21-22 = 2,621 total cases
Clinical Care

Open Vascular Procedures

Total Open cases—Shands (2021-2022)

- 185 Aortic/mesenteric
- 68 Carotid/cerebrovascular
- 225 Distal revascularization
- 45 Visceral revascularization
- 235 Dialysis
- 382 Amputations

1,140 OPEN CASES
Endovascular Procedures

UF/Health (2021-2022)
- 220 Aortic
- 264 Peripheral

VAMC (2021-2022)
- 38 Aortic
- 148 Peripheral
Clinical Care

Endovascular Procedures

Therapeutic Case Mix

- Carotid stents
- F/B-EVAR (including PMEG)
- Arch vessel interventions
- Renal/visceral interventions
- Aorto-iliac interventions
- Intrainguinal interventions
- Dialysis-related interventions
- Venous interventions (complex)
- Others
Clinical Care

**Typical Week (2/5-2/10)**

**Sunday**
- Symptomatic AAA repair (open)
- Ankle disarticulation

**Monday**
- RLE stab phlebectomy
- RLE stab phlebectomy
- RLE stab phlebectomy
- L foot wound debridement
- Femoral thromboembolectomy
- PMEG
- L Fem-BK pop bypass
- B/L LE angio, tibial intervention
- R 4th met head resection
- R forefoot wound closure

**Tuesday**
- LLE Agram, SFA intervention
- LLE Agram, iliac/SFA intervention
- LUE fistulagram with venous PTA
- Left iliofem TEA, iliac stenting
- R AKA
- Aortobifemoral bypass

**Wednesday**
- Ruptured AAA repair
- L groin debridement, mm flap
- TEVAR/C-S Bypass
- R Brach-Ax AV graft
- TEVAR/C-S Bypass
- LLLE SFA/tibial PTA
- RLE iliac/SFA stenting
- Fem-fem bypass

**Thursday**
- Visceral debranching
- Reopening abdomen/washout
- R AK-BK pop bypass
- RLE agram, SFA/tibial intervention
- L femoral recon/iliac stenting
- B/I venous closure/stabs

**Friday**
- Exploration of neck hemorrhage
- L SCA embolization
- Fem-fem bypass
- Open AAA repair/L renal bpg
- R Ax-Ax Loop AV graft
- R BKA
- LAKA
- TEVAR
- PMEG

**Monday**
- LLE Agram, SFA intervention
- LLE Agram, iliac/SFA intervention
- LUE fistulagram with venous PTA
- Left iliofem TEA, iliac stenting
- R AKA
- Aortobifemoral bypass

**Sunday**
- RLE stab phlebectomy
- RLE stab phlebectomy
- RLE stab phlebectomy
- L foot wound debridement
- Femoral thromboembolectomy
- PMEG
- L Fem-BK pop bypass
- B/L LE angio, tibial intervention
- R 4th met head resection
- R forefoot wound closure

**Tuesday**
- LLE Agram, SFA intervention
- LLE Agram, iliac/SFA intervention
- LUE fistulagram with venous PTA
- Left iliofem TEA, iliac stenting
- R AKA
- Aortobifemoral bypass

**Wednesday**
- Ruptured AAA repair
- L groin debridement, mm flap
- TEVAR/C-S Bypass
- R Brach-Ax AV graft
- TEVAR/C-S Bypass
- LLLE SFA/tibial PTA
- RLE iliac/SFA stenting
- Fem-fem bypass

**Thursday**
- Visceral debranching
- Reopening abdomen/washout
- R AK-BK pop bypass
- RLE agram, SFA/tibial intervention
- L femoral recon/iliac stenting
- B/I venous closure/stabs

**Friday**
- Exploration of neck hemorrhage
- L SCA embolization
- Fem-fem bypass
- Open AAA repair/L renal bpg
- R Ax-Ax Loop AV graft
- R BKA
- LAKA
- TEVAR
- PMEG
Clinical Care

Focus on Aortic Surgery

The decline of open abdominal aortic aneurysm surgery among individual training programs and vascular surgery trainees

Margaret E. Smith, MD, MS, Elizabeth A. Andraska, MD, MS, Danielle C. Sutzko, MD, MS, Anna M. Boniakowski, MD, Dawn M. Coleman, MD, and Nicholas H. Osborne, MD, MS, Ann Arbor, Mich. and Pittsburgh, Pa


“... 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>2022</td>
<td>99</td>
<td>94</td>
</tr>
<tr>
<td>2021</td>
<td>99</td>
<td>92</td>
</tr>
<tr>
<td>2020</td>
<td>99</td>
<td>95</td>
</tr>
<tr>
<td>2019</td>
<td>98</td>
<td>92</td>
</tr>
<tr>
<td>2018</td>
<td>99</td>
<td>97</td>
</tr>
</tbody>
</table>
## Clinical Care

### Aortic Volume at UF/Health

<table>
<thead>
<tr>
<th>Aortic Procedure</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aortic Root</td>
<td>13</td>
<td>13</td>
<td>8</td>
<td>14</td>
<td>13</td>
<td>10</td>
<td>9</td>
<td>12</td>
<td>11</td>
<td>5</td>
<td>11</td>
<td></td>
<td>128</td>
</tr>
<tr>
<td>Aorto-Iliac/Femoral</td>
<td>5</td>
<td>7</td>
<td>7</td>
<td>6</td>
<td>4</td>
<td>2</td>
<td>3</td>
<td>5</td>
<td>3</td>
<td>5</td>
<td>1</td>
<td></td>
<td>51</td>
</tr>
<tr>
<td>Aorto-Mesenteric/Renal</td>
<td>2</td>
<td>1</td>
<td>5</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td>34</td>
</tr>
<tr>
<td>Ascending</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>Ascending w Hemi- Arch</td>
<td>6</td>
<td>7</td>
<td>6</td>
<td>4</td>
<td>12</td>
<td>7</td>
<td>5</td>
<td>5</td>
<td>7</td>
<td>6</td>
<td>6</td>
<td>4</td>
<td>75</td>
</tr>
<tr>
<td>Ascending w Total Arch</td>
<td>8</td>
<td>6</td>
<td>4</td>
<td>5</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>6</td>
<td>8</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>73</td>
</tr>
<tr>
<td>EVAR</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>7</td>
<td>1</td>
<td>4</td>
<td>5</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>4</td>
<td>39</td>
</tr>
<tr>
<td>EVAR + Visceral Stent</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>FEVAR</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>4</td>
<td>5</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>5</td>
<td>2</td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>Hemi-/Total Arch+FrozEleTmk</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>5</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>Hybrid Arch</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Ilio-Mesenteric/Renal</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td>Open AAA</td>
<td>7</td>
<td>6</td>
<td>7</td>
<td>4</td>
<td>8</td>
<td>11</td>
<td>7</td>
<td>3</td>
<td>3</td>
<td>8</td>
<td>3</td>
<td></td>
<td>70</td>
</tr>
<tr>
<td>Open TAA</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Open TAAA</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>2</td>
<td></td>
<td>23</td>
</tr>
<tr>
<td>TEVAR</td>
<td>3</td>
<td>5</td>
<td>9</td>
<td>3</td>
<td>6</td>
<td>8</td>
<td>11</td>
<td>2</td>
<td>7</td>
<td>10</td>
<td>9</td>
<td>5</td>
<td>78</td>
</tr>
<tr>
<td>TEVAR + Visceral Stent</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>10</td>
</tr>
</tbody>
</table>

**Total CY21**: 676

<table>
<thead>
<tr>
<th>Aortic Procedure</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aortic Root</td>
<td>11</td>
<td>14</td>
<td>17</td>
<td>11</td>
<td>4</td>
<td>15</td>
<td>9</td>
<td>14</td>
<td>12</td>
<td>10</td>
<td>9</td>
<td></td>
<td>136</td>
</tr>
<tr>
<td>Aorto-Iliac/Femoral</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>3</td>
<td>3</td>
<td>7</td>
<td>2</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td></td>
<td>48</td>
</tr>
<tr>
<td>Aorto-Mesenteric/Renal</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>5</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>Ascending</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>5</td>
<td>2</td>
<td>7</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td>29</td>
</tr>
<tr>
<td>Ascending w Hemi- Arch</td>
<td>5</td>
<td>5</td>
<td>2</td>
<td>3</td>
<td>9</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>5</td>
<td>10</td>
<td>7</td>
<td></td>
<td>54</td>
</tr>
<tr>
<td>Ascending w Total Arch</td>
<td>6</td>
<td>5</td>
<td>8</td>
<td>8</td>
<td>3</td>
<td>4</td>
<td>3</td>
<td>4</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td>47</td>
</tr>
<tr>
<td>EVAR</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>7</td>
<td>5</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td></td>
<td>34</td>
</tr>
<tr>
<td>EVAR + Visceral Stent</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>FEVAR</td>
<td>5</td>
<td>8</td>
<td>7</td>
<td>5</td>
<td>2</td>
<td>9</td>
<td>7</td>
<td>6</td>
<td>7</td>
<td>10</td>
<td>7</td>
<td></td>
<td>73</td>
</tr>
<tr>
<td>Hemi-/Total Arch+FrozEleTmk</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>13</td>
</tr>
<tr>
<td>Hybrid Arch</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Ilio-Mesenteric/Renal</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>17</td>
</tr>
<tr>
<td>Open AAA</td>
<td>4</td>
<td>8</td>
<td>7</td>
<td>12</td>
<td>9</td>
<td>8</td>
<td>11</td>
<td>6</td>
<td>6</td>
<td>3</td>
<td>3</td>
<td></td>
<td>77</td>
</tr>
<tr>
<td>Open TAA</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Open TAAA</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>2</td>
<td></td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>TEVAR</td>
<td>6</td>
<td>4</td>
<td>2</td>
<td>13</td>
<td>11</td>
<td>12</td>
<td>9</td>
<td>5</td>
<td>4</td>
<td>13</td>
<td>5</td>
<td></td>
<td>84</td>
</tr>
<tr>
<td>TEVAR + Visceral Stent</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

**Total CY22**: 690
## Top 10 Vizient Volume

<table>
<thead>
<tr>
<th>Hospital</th>
<th>Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLEVELAND CLINIC</td>
<td>1,507</td>
</tr>
<tr>
<td>MAYO CLINIC ROCHESTER</td>
<td>710</td>
</tr>
<tr>
<td>SHANDS_UF</td>
<td>690</td>
</tr>
<tr>
<td>MICHIGAN</td>
<td>683</td>
</tr>
<tr>
<td>UPHS-HUP (UPMC)</td>
<td>609</td>
</tr>
<tr>
<td>ALABAMA (UAB)</td>
<td>605</td>
</tr>
<tr>
<td>STANFORD</td>
<td>473</td>
</tr>
<tr>
<td>USC KECK</td>
<td>449</td>
</tr>
<tr>
<td>INOVA FAIRFAX</td>
<td>430</td>
</tr>
<tr>
<td>MASS GENERAL/ BRIGHAM</td>
<td>422</td>
</tr>
</tbody>
</table>
### UF Vascular Fellow Case Volumes & ACGME Case Logs

<table>
<thead>
<tr>
<th>Graduating Year</th>
<th>Index case number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>845</td>
</tr>
<tr>
<td>2010</td>
<td>721</td>
</tr>
<tr>
<td>2011</td>
<td>841</td>
</tr>
<tr>
<td>2012</td>
<td>842</td>
</tr>
<tr>
<td>2013</td>
<td>846</td>
</tr>
<tr>
<td>2014</td>
<td>1047</td>
</tr>
<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>998</td>
</tr>
<tr>
<td>2020</td>
<td>1022</td>
</tr>
<tr>
<td>2021</td>
<td>980</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Category</th>
<th>National Average</th>
<th>UF Fellow (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aneurysm</td>
<td>87</td>
<td>165 (99)</td>
</tr>
<tr>
<td>Cerebrovascular</td>
<td>67</td>
<td>63 (48)</td>
</tr>
<tr>
<td>Peripheral</td>
<td>175</td>
<td>203 (72)</td>
</tr>
<tr>
<td>Mesenteric/renal</td>
<td>15</td>
<td>32 (99)</td>
</tr>
<tr>
<td>Venous</td>
<td>59</td>
<td>45 (43)</td>
</tr>
<tr>
<td>Endo. diagnostic</td>
<td>105</td>
<td>202 (82)</td>
</tr>
<tr>
<td>Vascular access (total)</td>
<td>60</td>
<td>82 (84)</td>
</tr>
<tr>
<td>Total operations</td>
<td>881</td>
<td>980 (70)</td>
</tr>
</tbody>
</table>

- Cerebrovascular Cases- ~40-50\(^{th}\) percentile nationally; remaining core categories > 70\(^{th}\) percentile
- AY22 fellows: ~ 21-25 CEA each ['60-65’ cerebrovascular]
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)
<table>
<thead>
<tr>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7:00a VSCORE Chaps: 154, 155 HVH 6546/Zoom</td>
<td>7:00a Grand Rounds North Tower 6120</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7:00a aortic treat HVH 6546</td>
<td>7:00a Case Conference HVH 6546/Zoom</td>
<td>7:00a no VSCORE – no conf HVH 6546/Zoom</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
</tr>
<tr>
<td>Fellowship Interviews</td>
<td>7:00a aortic treat HVH 6546</td>
<td>7:00a vascular M + M HVH 6546/Zoom</td>
<td>7:00a Vasc Lab conf Chaps: 55, 71, 78-81 HVH 6546/Zoom</td>
<td>7:00a M + M North Tower 6120</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
|        | 26     | 27      | 28        | 1        | 2      | 3        | 4
Education

Educational Block

• VSCORE/Rutherford
• Case conference
• VQI / Morbidity and Mortality
• Vascular lab curriculum/ RPVI preparation
• JVS conference
• Endo case planning (quarterly)
• Statistical Analysis/Review (bi-annually)
• DOS Grand Rounds/MM
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
Clinical Research Interests

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

“Write about what you do...” -JMS
UF D.O.S. Ranked #4 in NIH Funding

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

- 18 actively enrolling studies, 6 in start-up, 3 in follow-up
- 85 total IRB approved studies
- Seven active R01 grants within division
- One active K-award
- Over 75 publications generated AY21-22
Research

Fellow / Resident Research

**Treatment and Outcomes of Aortic Graft Infections: a Single Center Experience** Amanda Filberto, Craig Elder, Javairiah Faitma, Sal Scali, Gilbert Upchurch, Jr, Martin Back, Thomas Huber

*PVSS, Colorado, February 2021*

**Comparative Outcomes of Open Mesenteric Bypass after Prior Failure of Endovascular or Open Revascularization for Acute and Chronic Mesenteric Ischemia** Chris Jacobs, Salvatore Scali, Gib Upchurch, Jr, Javairiah Fatima, Martin Back, Thomas Huber, Kristina Giles

*SCVS, Huntington Beach, CA, March 2021*

**Cause Specific Long-Term Mortality Outcomes after Physician Modified Endovascular Aortic Repair**

Scott Robinson, Sal Scali, Kristina Giles, Martin Back, Tom Huber, Phil Goodney, Bjoern Suckow, Richard Powell, Adam Beck

*VAM, Boston, MA, June 2021*

**15-year Trends in Participation of Women in Presentation and Leadership Positions in the SAVS, 2006-2020** Libby Weaver, Rebecca Sorber, Michol Cooper

*SAVS, Scottsdale, AZ, 2021*

**Non-guideline Compliant EVAR in Women is Associated with Increased Mortality and Re-intervention Compared to Men** Sadia Ilyas, Dave Stone, Jean Kang, Michol Cooper, Jesse Columbo, Tom Huber, Bjoern Suckow, Phil Goodney, Richard Powell, Sal Scali

*SAVS, Scottsdale, AZ, 2021*

**Outcomes of EVAR Conversion in Octogenarians at a High Volume Aorta Center** Chris Jacobs, Sal Scali, Kyle Staton, Dan Neal, Michol Cooper, Scott Robinson, Ben Jacobs, Zain Shahid, Martin Back, Gib Upchurch, Jr., Thomas Huber

*SAVS, San Diego, CA, June, 2021*

**Uremic Contribution to Skeletal Muscle Mitochondrial Bioenergetic Dysfunction in a Novel Murine AVF Model** Erik Anderson, Raymond Kim, Brian Fazzone, Kerri O’Malley, Scott Berceli, Terence Ryan, Sal Scali

*SAVS, Palm Beach, FL, January 2022*

**Psoas Muscle Area is a Useful Prognostic Tool for Risk Stratifying Patients Undergoing EVAR Conversion**

Chris Jacobs, Sal Scali, Amanda Filiberto, Kyle Staton, Scott Robinson, Martin Back, Michol Cooper, Gib Upchurch, Jr., Thomas Huber

*VESS, Aspen, CO, January, 2022*

**Paradoxical Arterial Embolization of a Missile Via the Pulmonary Vein in a Pediatric Penetrating Trauma Patient**

Weaver ML, Jenkins P, Badru F, Staton KM, Huber TS, Mustafa MM< Shah SK

*VESS, Aspen, CO, January, 2022*

**Impact of C Difficile Infection on Contemporary Vascular Surgery Outcomes** Morgan Cox, David Stone, Jesse Columbo, George Sarosi, Cris Crippen, Thomas Huber, Sal Scali

*FVS, Orlando, FL, April 2022*
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
- Venous disease compression

Support in recent years by 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 and Nutritional Modulation of Surgical Stress Response
- Biology of Access Related Hand Ischemia
- Biology of venous hypertension
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 7th Ed. Intro Vascular Ultrasound*
- Equipment (i.e. apron, glasses, coats, cards)
- Hand-held Doppler
- 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
  - Vein center initiative
• Continued academic emphasis
• T32 Program
• Addition of transition to practice opportunities (AY ‘23-24)
Thank You and Welcome!

Tradition of excellence
Rich educational experience
Supportive environment