UMass Vascular Skills and Simulation Course

APRIL 25 – 26, 2014

UMass Memorial Medical Center
University Campus
Albert Sherman Center
Albert Sherman Auditorium
55 Lake Avenue North
Worcester, MA

Sponsored by:
UMass Division of Vascular and Endovascular Surgery
University of Massachusetts Medical School interprofessional Center for Experiential Learning and Simulation (iCELS)
**COURSE INFORMATION**

**COURSE DESCRIPTION:** Simulation and surgical skills training is playing an increasingly important role in training future vascular and endovascular surgeons. The UMass Vascular Skills and Simulation Course (UVASC) will be held April 24-26, 2014. Sponsored by the University of Massachusetts Medical School Division of Vascular and Endovascular Surgery, in conjunction with the interprofessional Center for Experiential Learning and simulation (iCELS), this is an intensive 1.5 day experience for Vascular Surgery Integrated Residents and Vascular Surgery Fellows to gain open vascular surgical and endovascular skills in a simulated setting.

The goal of the course is to improve trainees’ skill and understanding in performing a comprehensive array of endovascular and open vascular procedures for aortic, carotid, and lower extremity aneurismal and occlusive disease. In addition, trainees will learn how to utilize current simulation platforms and skill trainers for the ongoing improvement of their technical skills. UVASC emphasizes hands-on instruction in a high-fidelity simulated learning environment. Trainees will receive hands-on instruction in open and endovascular surgical skills in a high fidelity simulated learning environment. The curriculum includes endovascular simulators, open simulation models, cadaver dissections, and some didactic presentations.

The UMass Vascular Skills and Simulation Course will be held at the 24,000-square-foot interprofessional Center for Experiential Learning and Simulation (iCELS) located on the campus of the University of Massachusetts Medical School in Worcester, MA.

**Specific Objectives:** At the conclusion of the course, the participant will be able to:

1. Understand and describe the anatomical considerations and approach to vessel exposure and perform the following vascular exposures in a cadaver model:
   a. Aortic Arch and Great Vessels
   b. Cervical Vessels and Thoracic Outlet
   c. Thoracoabdominal and Paravisceral Aorta
   d. Transabdominal approach to the Infrarenal Aorta
   e. Retroperitoneal approach to the Infrarenal Aorta, Iliac Arteries, and Lumbosacral Spine
   f. Popliteal, Tibial, and Pedal Vessel for lower extremity revascularization

2. Understand, describe, and execute appropriate technique in each of the following realms of open vascular surgery
   a. Basic Vascular Suture Skills
   b. Open AAA Repair
   c. Carotid Endarterectomy
   d. Lower Extremity Bypass
   e. Upper Extremity Hemodialysis Access
3. Understand, describe, and execute appropriate technique in each of the following realms of endovascular therapy
   a. EVAR
   b. TEVAR
   c. Renal Artery Angioplasty and Stenting
   d. Carotid Artery Angioplasty Stenting
   e. Lower extremity Peripheral Vascular Intervention
      i. Iliac
      ii. Infrainguinal

**Target Audience:** Vascular Surgery Integrated Residents and Vascular Surgery Fellows

**Deadline:** Registration will be closed when space is full or on April 1, 2014

**Weather Emergency Policy:** While the probability of delay or cancellation of the conference is highly unlikely, we recognize that we are subject to the vagaries of weather. If a weather emergency does occur, and you are in doubt as to whether or not the course will be held, call 508-856-1671 after 6:00 pm on April 24, 2014.

**Additional Info:** The University of Massachusetts Division of Vascular and Endovascular Surgery and iCELS reserve the right to cancel the program at any time due to circumstances not under its control.

The technology-infused interprofessional Center for Experiential Learning and Simulation (iCELS) at the University of Massachusetts Medical School provides state of the art simulation to meet the needs of learners across the spectrum of clinical education. With over 24,000 square feet of space, iCELS is a fully multidisciplinary center, housing a comprehensive array of simulation programs, services, resources and technologies. Designed for flexibility and adaptability, the space can be specifically configured to create the customized educational milieu that replicates the look and feel of an authentic practice environment to best meet the needs of the UMass Vascular Skills and Simulation Course.

The UMass Vascular Skills and Simulation course will be held in iCELS training space which includes two technical skills labs (for “wet” lab specimens and dry lab computer-based technology), four team-based scenario rooms and several multifunctional task-training/debriefing/conference rooms as well as dedicated space in the UMMS Anatomical Lab. iCELS learners have access to comprehensive audiovisual software integrated in the Center to record live events for feedback and training purposes.

For more information about the Center and to view an interactive floor plan, go to www.umassmed.edu/iCELS.
**THURSDAY, APRIL 24, 2014**

- 7-9 pm Welcome Reception (Beechwood Hotel)

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**FRIDAY, APRIL 25, 2014**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:30-7:30 am</td>
<td>Breakfast</td>
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<tr>
<td>7:45-7:50 am</td>
<td>Introductory Remarks</td>
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<tr>
<td></td>
<td>William Robinson, MD (Director, UVASC)</td>
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<tr>
<td>7:50-8:00 am</td>
<td>Welcome Address</td>
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<td>Michele Pugnaire, MD (Senior Associate Dean for Educational Affairs, Executive Director, interprofessional Center for Experiential Learning and Simulation)</td>
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<tr>
<td></td>
<td>Introduction by</td>
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<tr>
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<td>Louis Messina, MD (Chief of Vascular and Endovascular Surgery)</td>
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**SESSION I: LECTURES: TECHNICAL ASPECTS OF OPEN VASCULAR SURGERY (SHERMAN AUDITORIUM)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Lecture</th>
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<tbody>
<tr>
<td>8:00-8:10 am</td>
<td>Thoracoabdominal and Paravisceral Aorta</td>
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<td>Louis Messina, MD</td>
</tr>
<tr>
<td>8:10-8:20 am</td>
<td>Open Infra-renal AAA</td>
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<td>Jeff Indes, MD</td>
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<tr>
<td>8:20-8:30 am</td>
<td>Aortic Arch De-branching /TEVAR</td>
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<td>Danielle Doucet, MD</td>
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<tr>
<td>8:30-8:40 am</td>
<td>CEA</td>
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<td></td>
<td>Francesco Aiello, MD</td>
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<tr>
<td>8:40-8:50 am</td>
<td>Infringuinal Bypass</td>
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<td>Elias Arous, MD</td>
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<tr>
<td>8:50-9:15 am</td>
<td>Break and change for cadaver lab</td>
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**SESSION II: VASCULAR EXPOSURES ON CADAVERS**

<table>
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<tr>
<th>Time</th>
<th>Lecture</th>
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<tbody>
<tr>
<td>9:15-10:00 am</td>
<td>Aortic Arch and Great Vessels</td>
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<tr>
<td>10:00-10:30 am</td>
<td>Cervical Vessels and Thoracic Outlet</td>
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<tr>
<td>10:30-11:15 am</td>
<td>Thoracoabdominal and Paravisceral Aorta</td>
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<tr>
<td>11:15-11:45 am</td>
<td>Break</td>
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<tr>
<td>11:45-12:15 pm</td>
<td>Transabdominal/Retroperitoneal approach to the Infrarenal Aorta, Iliac Arteries, and Lumbosacral Spine</td>
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<tr>
<td>12:15-12:50 pm</td>
<td>Popliteal, tibial, and pedal exposures for lower extremity revascularization</td>
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<td>1:00-2:00 pm</td>
<td>Lunch at The Cube</td>
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## SESSION III: OPEN VASCULAR SIMULATION

<table>
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<tr>
<th>Time</th>
<th>Activity</th>
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| 2:00-3:45 pm | Simulation Stations:  
  - Basic Vascular Suture Skills  
  - Open AAA Repair  
  - Carotid Endarterectomy  
  - Femoropopliteal Bypass  
  - Upper Extremity Hemodialysis Access |
| 3:45-4:15 pm | Break                                                                                   |
| 4:15-5:30 pm | Simulation Stations:  
  - Basic Vascular Suture Skills  
  - Open AAA Repair  
  - Carotid Endarterectomy  
  - Femoropopliteal Bypass  
  - Upper Extremity Hemodialysis Access |
| 7:00-10:00 pm | Trainee Dinner / Faculty Dinner                                                         |

## SATURDAY, APRIL 26, 2014

### SESSION IV: LECTURES: TECHNICAL ASPECTS OF ENDOVASCULAR SURGERY (SHERMAN AUDITORIUM)

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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| 7:45-7:55 am | Introduction to Endovascular Simulation  
  William Robinson, MD |
| 7:55-8:05 am | Carotid Angioplasty and Stenting  
  Jessica Simons, MD |
| 8:05-8:15 am | EVAR / FEVAR  
  Andres Schanzer, MD |
| 8:15-8:25 am | Lower extremity angioplasty/ stenting  
  Donald Baril, MD |

### SESSION V: ENDOVASCULAR SIMULATION

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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| 8:30-10:30 am | Simulations Stations:  
  - Endovascular AAA Repair (EVAR)  
  - EVAR of Ruptured AAA  
  - Thoracic Endovascular Aneurysm Repair (TEVAR)  
  - Iliac Artery Angioplasty and Stenting  
  - Infrainguinal Angioplasty and Stenting  
  - Renal Artery Angioplasty and Stenting  
  - Carotid Artery Angioplasty and Stenting (CAS) |
| 10:30-11:00 am | Break                                                                 |
| 11:00-1:00 pm | Simulation Stations:  
  - Endovascular AAA Repair (EVAR)  
  - EVAR of Ruptured AAA  
  - Thoracic Endovascular Aneurysm Repair (TEVAR)  
  - Iliac Artery Angioplasty and Stenting  
  - Infrainguinal Angioplasty and Stenting  
  - Renal Artery Angioplasty and Stenting  
  - Carotid Artery Angioplasty and Stenting (CAS) |
| 1:00-1:15 pm | Closing Remarks and Adjourn                                                  |
## PROGRAM FACULTY

### COURSE DIRECTOR:

**William P. Robinson III, MD**  
Assistant Professor of Surgery  
Director of Simulation  
Division of Vascular & Endovascular Surgery  
University of Massachusetts Medical School

### UMASS FACULTY:

**Francesco A. Aiello, MD**  
Assistant Professor of Surgery  
Division of Vascular and Endovascular Surgery

**Elias Arous, MD**  
Professor of Surgery  
Division of Vascular & Endovascular Surgery

**Danielle Doucet, MD**  
Assistant Professor of Surgery  
Division of Vascular & Endovascular Surgery

**Louis M. Messina, MD**  
Professor and Chief  
Division of Vascular & Endovascular Surgery  
Vice Chair, Department of Surgery

**Jessica Simons, MD**  
Assistant Professor of Surgery  
Division of Vascular & Endovascular Surgery

**Andres Schanzer, MD**  
Associate Professor of Surgery and Quantitative Health Sciences  
Program Director, Integrated Vascular Residency  
Division of Vascular & Endovascular Surgery

**Mark A. Mattos, MD**  
Clinical Professor of Surgery  
Department of Surgery  
Wayne State University  
Detroit, MI

**Matthew T. Menard, MD**  
Assistant Professor of Surgery  
Harvard Medical School  
Division of Vascular & Endovascular Surgery  
Brigham and Women’s Hospital  
Boston, MA

**Erica Mitchell, MD**  
Associate Professor of Surgery  
Division of Vascular & Endovascular Surgery  
Oregon Health Sciences University  
Portland, OR

**Malachi G. Sheahan III, MD**  
Associate Professor of Surgery and Radiology  
Division of Vascular Surgery  
Louisiana State University Health Sciences Center  
New Orleans, LA

**David H. Stone, MD**  
Assistant Professor of Surgery  
Section of Vascular Surgery  
Dartmouth-Hitchcock Medical Center  
Lebanon, NH

### GUEST FACULTY:

**Donald T. Baril, MD**  
Assistant Professor  
Division of Vascular Surgery  
University of Pittsburgh School of Medicine  
Pittsburgh, PA

**Jean Bismuth, MD, Ch.B., R.V.T., F.A.C.S.**  
Assistant Professor of Surgery  
Methodist Debakey Heart & Vascular Center  
Houston, TX

**Jeffrey E. Indes MD, F.A.C.S.**  
Assistant Professor of Surgery and Radiology  
Section of Vascular & Endovascular Surgery  
Yale University School of Medicine  
New Haven, CT
REGISTRATION FOR THIS EVENT IS ONLY AVAILABLE ONLINE.
VISIT WWW.UMASSMED.EDU/CME/EVENTS TO GET STARTED.
(Online registrations are viewed as complete; you will receive a confirmation via email to the address provided.)

Register Instantly Using your Smart Phone:
