Lessons Learned in Implementing Bootcamps for VS Trainees

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**EDUCATION CORNER**

<table>
<thead>
<tr>
<th>Teach early</th>
<th>Maximal duration of benefit within the program</th>
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<tr>
<td>Teach the basics</td>
<td>This is about broadly elevating cardiovascular knowledge</td>
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<tr>
<td>Teach broadly</td>
<td>Broad and shallow rather than focused and in-depth</td>
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<tr>
<td>Teach multiple cardiovascular disciplines</td>
<td>A great deal of this core curriculum is of broad value to all cardiovascular disciplines</td>
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We are pleased to invite your fellows to attend the eighth annual Cardiovascular Fellows’ Bootcamp. Bootcamp will provide hands-on training along with two days of succinct lectures, all designed to understand the fundamentals of cardiovascular disease and management. This course consists of two tracks: vascular and cardiology/cardiac. This event is held early in the year so that trainees can obtain a rapid précis of the basic skills that are required to make them competent fellows. Past attendees have found this course valuable and highly beneficial.

events.houstonmethodist.org/2016CVFellowsBootcamp
Cardiovascular Fellows’ Bootcamp

- Course started in 2009
- Initially didactic, skills lab introduced in 2011
- First year only 50 participants were taken
- This quickly grew to 150 the second year
- Currently run parallel agendas for Cardiology and Cardiac Surgery (some didactics overlap)
Overview
Cardiovascular Fellows’ Bootcamp

- Tracks: Vascular Surgery & Cardiology/Cardiac
- Audience: Residents entering a CV fellowship
- Duration: 2 ½ day crash course
- Agenda: 1 day hands-on training, 1 ½ days didactics

- More hands on with 2 days in lab and 1 day didactics
Overview
Cardiovascular Fellows’ Bootcamp

Hands-on training at Methodist Institute for Technology, Innovation & Education (MITIE)

Didactics at boutique hotel - Hotel ZaZa
Vascular Agenda: Day 1
Cardiovascular Fellows’ Bootcamp 2016

REGISTRATION: Thursday, August 18 • 4:30-7:30 p.m.  ■ Hotel ZaZa, Phantom Pre-Function

FRIDAY, AUGUST 19  ■ Moderator: Alan B. Lumsden, MD

6:00 a.m.  **Skills Lab Registration** (Hotel ZaZa: Phantom Pre-Function) • **Breakfast** (Hotel ZaZa: Hemingway/Deja Vu Rooms)
7:00  Board buses to MITIE facility  ■ Hotel ZaZa • Registration desk
7:30  Arrive at MITIE for Debriefing Sessions with Jean Bismuth, MD  ■ change attire
8:00  **VASCULAR SKILLS LAB**  ■ **Houston Methodist MITIE**
5:00 p.m.  Board buses to Hotel ZaZa
6:30  Jeopardy-Social  ■ Hotel ZaZa • Phantom Ballroom A
7:30  **Evening Reception**  ■ Hotel ZaZa • Texas Tycoon Suite/12th Fl. (sponsored by W.L. Gore)
Overview
Cardiovascular Fellows’ Bootcamp

Hands-on training and access to faculty
Overview
Cardiovascular Fellows’ Bootcamp

Hands-on training floor plan

Cadaver Room

A: Abdominal/Visceral; B: Tibial Exposures; C: Carotid/Subclavian; D: Chest Exposures

Open Simulation Room

Trainee Practice Stations

Open Skills (Pulsatile flow models): CEA; Eversion/Patch Angioplasty; Fem-pop bypass; Open AAA repair with Dacron Graft

Endovascular Simulation Room

EVAR: Simbionix Simulators

TEVAR: Pontresina Simulators

EVAR: virtual reality simulators 1 faculty, 2 trainees, 1 tech
TEVAR: pulsatile silicone model; 1 faculty, 2 trainees, 1 tech
Vascular Agenda: Day 2
Cardiovascular Fellows’ Bootcamp 2016

SATURDAY, AUGUST 20  ■  Hotel ZaZa  ■  Phantom Ballroom C
6:30 a.m.  Breakfast
Fountain/Ultimate Ransom
LOWER EXTREMITY ARTERIAL DISEASE  ■  Moderator: Carlos Bechara, MD
7:00 a.m.  Radiation Safety
Carlos Bechara, MD
Michael B. Silva, MD
John M. Buerger, MD
Charudatta Bavare, MD
Erica L. Mitchell, MD
Rabih Chaer, MD
Brian DeRubertis, MD
John Eidt, MD
Jason Lee, MD
William T. Bohannon, MD
Vijay Nambi, MD
Phantom Pre-Function
7:15  Wires, Catheters, Balloons, Stents
7:30  Testing and Risk Stratification
8:00  Lower Extremity Anatomy
8:15  Endovascular Interventions
8:30  Open Interventions-Grafts and Techniques
8:45  Amputations
9:00  Compartment Syndromes
9:15  Lower Extremity Aneurysms
9:30  Medical Management
9:45  Break
CEREBROVASCULAR DISEASE  ■  Moderator: John Eidt, MD
10:00 a.m.  Neurovascular Anatomy, Physiology and Carotid Imaging
John Eidt, MD
John Volpi, MD
10:15  Diagnosis and Management of Stroke
David Rigberg, MD
Carlos Bechara, MD
10:30  Open Surgical Management of Carotid and Vertebral Stenosis
10:45  Endovascular Management of Carotid and Vertebral Stenosis
11:00  Carotid Body Tumors

SATURDAY, AUGUST 20 (CONTINUED)
VISCERAL-RENAL ARTERY DISEASE  ■  Moderator: David Rigberg, MD
William Robinson, MD
William T. Bohannon, MD
Mitul Patel, MD
Erica L. Mitchell, MD
Fountain/Ultimate Ransom Room
11:15 a.m.  Anatomy and Physiology
11:30  Management of FMD
11:45  Management of Occlusive Disease of Visceral/Renal Arteries
Noon  Management of Aneurysmal Disease of Visceral/Renal Arteries
12:15 p.m.  Lunch
AORTIC ANEURYSM DISEASE  ■  Moderator: Mitul Patel, MD
Rabih Chaer, MD
Mitul Patel, MD
Jason Lee, MD
Alan B. Lumidin, MD
Gregory Pearl, MD
1:00 p.m.  Anatomy and Physiology of the Aorta
1:15  Diagnosis and Imaging of Thoracic and Abdominal Aortic Aneurysm
1:30  Medical Management of Abdominal Aortic Aneurysm
1:45  Endovascular Management of Abdominal Aortic Aneurysms
2:00  Open Surgical Management of Abdominal Aneurysms
THORACIC AORTIC ANEURYSM DISEASE  ■  Moderator: Jean Bismuth, MD
Ali Azzizadeh, MD
Brian DeRubertis, MD
Alan B. Lumidin, MD
Jean Bismuth, MD
Phantom Pre-Function
2:15 p.m.  Traumatic Aortic Injury
2:30  Endovascular Management of Thoracic and Thoraco-Abdominal Aortic Aneurysm
2:45  Open Surgical Management of Thoracic and Thoraco-Abdominal Aortic Aneurysm
3:00  Management of Aortic Dissection
3:15  Break
LOWER EXTREMITY VENOUS DISEASE  ■  Moderator: Michael B. Silva, MD
Claudia Sheehan, MD
David Rigberg, MD
Michael B. Silva, MD
Mitul Patel, MD
Ulises Baltazar, MD
Houssam Younes, MD
Alan B. Lumidin, MD
Black Label Suite (12th Fl.)
3:30 p.m.  Anatomy and Disease
3:45  Diagnosis DVT and PE
4:00  Management of Anticoagulation and Venous Thrombolysis
4:15  Diagnosis and Management of Varicose Veins
4:30  Diagnosis and Management of Deep Venous Insufficiency
4:45  Management of PE
5:00  Diagnosis and Management of AVFs
6:00  Evening Reception (sponsored by Cook Medical)
Follow Up Content on DICET YouTube
Cardiovascular Fellows’ Bootcamp 2016

https://www.youtube.com/c/DeBakeyInstituteForCardiovascularEducationTraining
Course Pitfalls and Strengths

- Cost
- Needs assessment - know your target audience
- Playing in the sandbox with others is great but....

- Know your faculty, they make the course
- Make it as painless as possible for faculty
- Start small, don’t be too ambitious
- Need other courses to complement (Finishing School and Pre-Intern)
Appropriate Level of Training

- Residents are hard to place
- When we started residents were not part of equation
- Widely differing abilities depending on program
- Stronger endo than open