Update on Fundamentals of Vascular and Endovascular Surgery (FVES)

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Disclosures

• None

FLS & FES

\[ \text{Image of FLS & FES logo} \]
Introduction

- Fundamentals Technical Skills assessments – mandatory steps to certification for General Surgery
- No vascular or endovascular correlate to an FLS model

Objective

- Fundamental skills testing is now required for certification in general surgery.
- No model for assessing fundamental vascular or endovascular skills has existed.
- Our objective was to develop a model that tests the fundamental skills and differentiates competent from noncompetent performance.

Core Concepts for FVES

- All models are patented
- None of the core developers of the models stand to personally gain from the models financially. Although the developers will retain the IP, the models will otherwise be owned by the APDVS.
- We have partnered with one major vendor (Simbionix/3D Systems) to cover all endovascular models and a second vendor (WL Gore & Associates) to provide materials for the surgical models. This setup very much mirrors what SAGES uses for the FLS training. Simbionix has put substantial R&D hours into the models.
- We anticipate that all purchases of the models will happen via a link off of the APDVS website to the aforementioned vendors, again mirroring what SAGES uses for the FLS trainer.
- In order to support educational endeavors vendors will discount their products so that we could secure 5-10% of overall cost to provide grants in the name of our vendors, to be presented to grant applicants with the most deserving proposals. This will be a peer-reviewed process executed by the Education Committee.
- Data will be collected from 12 launch centers in a prospective fashion; these data will serve to further refine the models and the overall implementation.
- The intent is that eventually trainees would not be able to sit for boards without having passed the minimum requirements for the Fundamentals of Vascular and Endovascular Surgery.
Endovascular Testing

- Endovascular model (3D Systems Simbionix)
  - 8 Scenarios
  - Two platforms
    - Physical model
    - Virtual model

- Vascular models (WL Gore & Associates)
  - Clockface
  - Patch
  - End-to-side

Endovascular Model

Vascular Models

*Close to 700 trainees evaluated to date*
Goals for 2016-2017

• Identify 10 programs nationally for the limited roll-out
• Complete committee Bylaws
• Contracts to be reviewed by APDVS/SVS legal
• Complete contracts with vendors:
  • 3D Systems/Simbionix
  • WL Gore
• Fundamentals platform presented to vascular board in June 2016 and under consideration
• Identify process for involving junior faculty

Launch Sites

• Michigan - Dawn Coleman
• BIDMC - Mark Wyers
• UC Davis - Misty Humphries
• Michigan State - Robert Cuff/Ash Mansour
• Dartmouth - David Stone
• Pittsburgh - Ryan McEnaney
• UAB - Ben Pearce/Mark Patterson
• MUSC - Jean Ruddy
• Wisconsin - John Rectenwald
• Cornell - Sharif Ellozy
• U Mass - Jessica Simons
• Penn State - Faisal Aziz

Bylaws

• Completed in 2017
• Revisions will be necessary in 2019
Contracts

- Executed contracts
  - 3D Systems/Simbionix - Ken Slaw
  - WL Gore

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- Identify process for involving junior faculty
  - Supervised evaluation at FVES sessions
  - Involvement in data analysis and peer reviewed publications

Goals for 2019

- Initiate program at twelve programs
- Prospective collection of trainee simulation data
- Logistics
- Refinement of protocols
- Present data for APDVS in 2020
Thank you

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