



4th Annual ACS AEI Postgraduate Course: Measuring Procedural Competence

PROGRAM

FRIDAY, SEPTEMBER 16, 2011 – INTERCONTINENTAL HOTEL, HOUSTON, TX

- 7:00 – 7:30 am **Registration and Continental Breakfast**
- 7:30 – 8:00 am **Welcoming Comments and Introduction**
Barbara L. Bass, MD, FACS – The Methodist Hospital, Houston, TX
Carlos A. Pellegrini, MD, FACS, FRCSI (Hon) – University of Washington, Seattle, WA
Ajit K. Sachdeva, MD, FRCSC, FACS – Division of Education, American College of Surgeons, Chicago, IL
- 8:00 – 8:30 am **Update on the ACS Program for Accreditation of Education Institutes**
Ajit K. Sachdeva, MD, FRCSC, FACS
- 8:30 – 9:15 am **Keynote Address: Retooling the surgical work force – who’s responsible?**
Barbara L. Bass, MD, FACS
- 9:15 – 9:45 am **Break / Exhibits**
- 9:45 – 11:00 am **Session I – Measuring procedural performance – what’s available?**
Moderator: Vadim Sherman, MD, FACS, FRCSC – The Methodist Hospital, Houston, TX
- **What’s available in surgery?**
Brian J. Dunkin, MD, FACS – MITIE, Houston, TX
 - OSATS
 - GOALS
 - GEARS
 - FLS
 - FRS
 - MIMIC
 - **What’s available in flexible endoscopy?**
Melina Vassiliou, MD, MEd, FRCSC – McGill University, Montreal, QC, Canada
 - GAGES
 - FES
 - **Lessons learned from other specialties**
Jean Bismuth, MD – The Methodist Hospital, Houston, TX
- 11:00 am – 12:00 noon **Session II – Thinking outside the box**
Moderator: Patrick Reardon, MD, FACS – The Methodist Hospital, Houston, TX
- **Quantitative stress measurement and procedural competence**
Ioannis Pavlides, PhD – University of Houston, Houston, TX
 - **Motion capture and orthopedic surgery**
Kenneth Mathis, MD – The Methodist Hospital, Houston, TX
 - **Robotically guided force feedback for error correction**
Marcia O’Malley, PhD – Rice University, Houston, TX



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- 12:00 – 1:00 pm **Lunch and Exhibits**
- 1:00 – 2:00 pm **Updates from the Four Committees of the Consortium**
Moderator: Carlos A. Pellegrini, MD, FACS, FRCSI (Hon)
- **Research and Development Committee**
Janis A. Cannon-Bowers, PhD - Division of Education, American College of Surgeons, Chicago, IL
 - **Curriculum Committee**
Brian J. Dunkin, MD, FACS
 - **Technologies and Simulation Committee**
Yuri Millo, MD – SiTEL, MedStar Health, Washington, DC
 - **Administration and Management Committee**
Sandra J. Feaster, RN, MS, MBA – Stanford University, Stanford, CA
- 2:00 – 3:15 pm **Session III – Bigger issues in outcomes measures**
Moderator: Shanda Blackmon, MD, FACS – The Methodist Hospital, Houston, TX
- **Measuring the utility of new procedures**
Nelda Wray, MD, MPH – The Methodist Hospital, Houston, TX
 - **Using NSQIP as a Platform for Education & Performance Improvement**
Steve Jones, MD, MSHI – The Methodist Hospital, Houston, TX
 - **Computer assisted decision support – instituting best practices**
Joseph F. Sucher, MD, FACS – The Methodist Hospital, Houston, TX
 - **TASSL (Texas Association of Surgical Skills Labs) – a consortium within the consortium!**
Danny Scott, MD, FACS – University of Texas Southwestern, Dallas, TX
- 3:15 – 3:45 pm **Break and Exhibits**
- 3:45 – 5:00 pm **Session IV – Where are we with simulation of surgical procedures?**
Moderator: Bridget Fahy, MD, FACS – The Methodist Hospital, Houston, TX
- **How do you know if a simulator is any good?**
Brian J. Dunkin, MD, FACS
 - **What’s available in off-the-shelf simulation that I can plug into residency training?**
Melina Vassiliou, MD, FRCSC
 - **Updates on the “gold standards” – FLS 2.0 and ACS/APDS curriculum**
Danny Scott, MD, FACS
 - **Simulation for robotic surgery – what’s the data?**
Calvin Lyons, MD – MITIE, Houston, TX
- 5:15 – 6:15 pm **Reception and Exhibitor Presentations**



SATURDAY, SEPTEMBER 17, 2011 – MITIE

7:00 – 7:30 am **Continental Breakfast – MITIE**

7:30 – 7:50 am **Orientation to MITIE and hands-on laboratories**

7:50 – 8:00 am **Transition to MITIE Lab**

8:00 am – 12:30 pm *Participants will rotate among 6 hands-on training stations in 90 minute blocks. Each participant can attend any 3 stations.*

Station 1: ACS U/S guided central line placement

- An introduction to the ACS ultrasound guided central line placement program developed by the AEI Curriculum Committee and available to all AEI member institutions.

Station 2: ACS AEI electronic Platform for Education and Research (eP-ER)

- An introduction to the ACS AEI eP-ER, a learning management system donated to the ACS by the University of British Columbia as a resource for members of the AEI consortium. This system enhances program planning and implementation at member institutes and fosters collaboration within the consortium.

Station 3: Novel measures of procedural skill

- Come see the next generation of measures in procedural skill acquisition. Modules presented include:
 - Quantitative stress measurement using thermal imaging as a marker of competence in laparoscopic skills
 - Motion capture analysis for orthopedic joint replacement surgery
 - Novel simulation and performance measures for robotic surgery
 - Patient specific endovascular simulation
 - MAD skills – The Methodist Advanced Drills for laparoscopic surgery – this is FLS on steroids!

Station 4: Hybrid Human Patient Simulator (HPS) models

- An introduction to methods of enhancing human patient simulators by adding synthetic and animate tissue blocks that recreate intraoperative bleeding scenarios during laparoscopic and robotic surgery. These modules enhance OR crisis training by recreating a high fidelity surgical emergency that capitalizes on both the HPS computer physiology and the realistic intrabdominal surgical model.

Station 5: Audio-Video (AV) Integration

- AV communication is a powerful tool for showing experts in action during live surgical procedures and for briefing sessions before and after team training. Come see and use the latest technology in audio-video communication which leverages the internet and is mobile and scalable.



SATURDAY, SEPTEMBER 17, 2011 – MITIE

Station 6: Flexible endoscopy training package

- Many surgical programs struggle to provide a meaningful flexible endoscopy experience to their residents. This module will demonstrate a complete package for flexible endoscopy that includes didactic material and validated written and hands-on testing. Train-to-proficiency modules will also be demonstrated and hands-on experience with FES (Fundamentals of Endoscopic Surgery), STEP (Surgical Training in Endoscopic Proficiency) and GAGES (Global Assessment of Gastrointestinal Endoscopic Skills) provided.

12:30 – 1:15 pm

Lunch

1:15 – 2:00 pm

Accreditation Process Lessons Learned from the Institutes, Surveyors, and Reviewers

Kathleen Johnson, EdM – Division of Education, American College of Surgeons, Chicago, IL

2:00 – 2:30 pm

Open Discussion and Closing Remarks

Barbara L. Bass, MD, FACS

Ajit K. Sachdeva, MD, FRCSC, FACS

Carlos A. Pellegrini, MD, FACS, FRCSI (Hon)

2:30 pm

Adjourn