Starting a skills lab...
On a BUDGET
Why Start Simulation?

- ACGME Rules
- Patient driven
- Core Competencies
Basic Needs

- **Space**
  - ACS requirements-
    - 4000sf
- **Surgical Staff Support**
  - Some type of director
  - Surgical attendings to support its importance
- **Resident buy-in**
  - Time
Where to Start?

- Don’t reinvent the wheel…
  - Staff at your program
  - Other programs here today.
  - APDS, ACS websites
Curriculum

- **MIZZOU example-Laparoscopy simulation**
  - Residents participate 6 times per year
  - Same simulation lab repeated two months in a row
  - Modules
    - Biliary
    - Small Bowel
    - Hernia
    - Colon
    - Gastric
    - Solid Organ and Laparoscopic Complications.

- Starting July 1
- Trauma, Open and Laparoscopic curriculum
- Professionalism
- Mock Codes
- Team Training
- Pig Lab
Curriculum

• Journal articles-landmark articles
• Technical didactic lectures
  – Taught by the expert attendings and the fellows
    • Chief residents will start assisting in teaching-7/1
  – 20 minutes each-no more than 2-3
  – *This will be changed to web based in a year
    • SAGES
Not possible at your program?

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- Web based curriculum
  - Not included in 80hours
  - Do from home
  - Administrations can follow progress
  - Pre and post tests

- Chief Resident Run
  - Once they have passed FLS and are deemed appropriate by PD.
Dry Lab

- Dry lab stations
  - Based on the topic for the month
  - Basic skills station and advanced
  - All residents are expected to do all stations
  - Validate before
  - Monitor progress (timed)
  - Attendings and fellows assist and give feedback as they go through their stations.
Dry lab video
Animal Lab

• Two residents per animal
  – They are given a review of the procedure during the technical lecture.
  – When they are finished with their procedure they are to repeat the procedure from their last session.
  – Attendings and fellows at each table.
Not Possible

- Consider talking with local reps and vets who may be able to do an animal lab at their facility once a year.
- SAGES sponsored resident course
  - Basic and Advanced
Barriers

- Time
- Difficult to make mandatory
- Other attendings’ participation
- Cost
Don’t reinvent the wheel

Resources already present

• Old trainers in closets?

• Talk with OR about old equipment.
  – Needle drivers, clamps, scissors

• Ask OR to save suture, graft, mesh etc
  – Keep reminding them.

• Reps-Equipment, grants, books.
Where to start—laparoscopy

- FLS
  - Fundamentals of Laparoscopic Surgery
  - Basic Laparoscopic skills
  - Cognitive Component
    - Validated
  - Consists of CD-rom study guide
  - Basic laparoscopy trainer.
  - Assessment tool
• Peg Transfer
• Pattern Cutting
• Endoloop
• Intracorporeal knot tying
• Extracorporeal knot tying
Covidien Grant

- Grant to cover cost of each program 5\textsuperscript{th} year residents and fellows to test out in FLS
- Provides CDs, task trainer box, and test vouchers to each program.
  - Supplies
- How to apply.
Other Basic Laparoscopy Skills
(This is where Hobby Lobby and Lowes come in handy.)

- Needle righting
- Rope run
- Clip Applying
Advanced Laparoscopic Skills

- Butch Rosser-Top Gun
- FLS is working on an advanced module
- Closure of Crura
- Anvil placement on EEA stapler
Lap training device video
Thank you

Any Questions?
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