Surgical Education Robotic Training

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STATE AND DESIGNATION

Robotic Surgery - Certification

- <u>Training through residency or</u> <u>fellowship program</u>
- Practice through Intuitive HQ
- Experience case logs, letters from prior employer

Training Equivalency Certificate

- 1. Online Module Completion Certificate
- 2. Hands On Orientation
- 3. SimNow Simulation Modules
- 4. Case Logs
 - 10 bedside assist
 - 20 console
- 5. Letter of Attestation from training program

Robotic Surgery - Certification

If you ever want robotic surgical privileges at a hospital, you will need this!



Robotic Surgery - Curriculum

- Orientation
 - CSI hands-on orientation
 - Online modules
- PGY 1-2
 - SimNow training basic
 - CSI training basic
 - Bedside assist training
- PGY 3-5
 - SimNow training expert
 - CSI training expert
 - Console training

- Rotations
 - Thoracic
 - Platinum (Colorectal)
 - Copper (Bariatric/MIS)
 - White (Surgical Oncology)
 - Green (Surgical Oncology)
 - Colorado Springs
 - VA

SimNow Curriculum by PGY Year

PGY1

- 1. Sea spikes 1
- 2. Three arm relay 1
- 3. Energy Pedals 1
- 4. Ring roller coaster 1
- 5. Camera 0
- 6. Needle pose match

PGY2

- 1. Sea Spikes 2
- 2. Energy pedals 2
- 3. Anterior needle driving Horizontal
- 4. Knot tying
- 5. 30-degree scope swap
- 6. Wrist Articulation 1

PGY3

- 1. Sea Spikes game
- 2. Three Arm Relay 3
- 3. Anterior Needle Driving Vertical
- 4. Clutch
- 5. Wrist Articulation 2
- 6. Vessel Energy Dissection

PGY4

- 1. 4th Arm Cutting
- 2. Big Dipper Needle Driving
- 3. Running Suture
- 4. Around the world needle driving
- 5. Posterior Needle driving ATW
- 6. Anterior needle driving ATW

PGY5

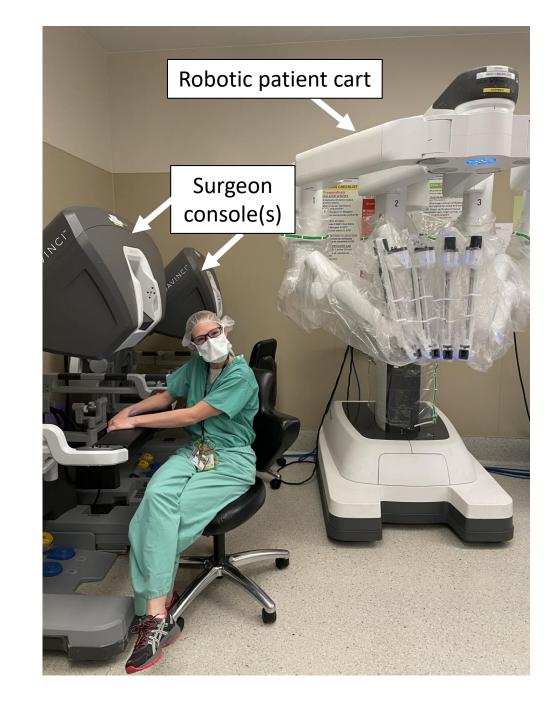
- 1. Railroad Track
- 2. Ring tower transfer
- 3. Combo Exercise
- 4. Puzzle Piece Dissection
- 5. Instrument Playground

Optional/Research Residents

- 1. Competitive Needle Posematch 30
- 2. Competitive Needle Posematch 60
- 3. Competitive Needle Posematch 90
- 4. Three Arm relay 2
- 5. Ring Roller coaster 2
- 6. Ring Roller Coaster 3
- 7. Ring Roller Coaster 4
- 8. Ring Roller Coaster 5

Robotic Surgery

- Intuitive Da Vinci robotic console
 - FDA approved in 2000
 - Most commonly used
 - Consoles present in every major academic center in the US
- Other robotic consoles have been approved
 - Others are on the way



Robotic Surgery - Usage

- Comprises ~15% of all general surgery operations
 - Used by 35% of general surgeons
- Survey of residents from last 5 years
 - 50% of graduates use robotics in their independent practice!
- Most commonly used for
 - Cholecystectomy
 - Colectomy
 - Ventral hernia repair
 - Inguinal hernia repair
 - Reflux surgery
 - Cancer surgery

