

Robotic Surgery Curriculum for CMHS Surgical Residents

Robotic Surgery Training Pathway

STEP ONE: Training Session (given by Intuitive Surgical Representative)

- Advantages/Disadvantages of Robotic Surgery
- Basic Components of the Robotic System
 - Console (Camera and Instrument control)
 - Docking/Undocking
 - Insert/Exchange of Instruments
 - Equipment Tray
- Operations that are appropriate for Robotic Surgery
- Patients that are appropriate for Robotic Surgery
- Safety issues unique to Robotic Surgery
- Create Logins for Console and Online site

STEP TWO: Online Training

- Login at www.davincisurgerycommunity.com
“Training” => “Surgeons” => “Online Training Courses”
- Complete online training modules
 - daVinci Xi System Overview
 - Docking
 - Advanced Surgeon Console Controls
 - Safety Features
- Assessment (Save/Print certificate and turn in to Dr. Barry Sanchez)
- View video of Cholecystectomy and Hernia Repair

STEP THREE: Simulator Modules

- Complete the Simulator Modules with > 85% score
 - Endowrist Manipulation - Pegboard 1+2; Matchboard 1+2; Ring&Rail1
 - Camera Control - Camera Targeting 1
 - Energy & Dissection - Energy Switching 1 and Energy Dissection 1
 - Needle Driving - Needle Targeting and Suture Sponge 1
 - Suturing - Complete all 5 modules (no score available)

STEP FOUR: At-Patient Training

- Bedside assistant in 10 robotic cases (OK to do concomitant to STEP 3)
Docking, Instrument exchange
- Console surgeon experience with attending for 5 cases
Perform some portion of the case with active guidance by attending
- *Pig Lab Training @Harbor-UCLA, UCLA or Sunnyvale HQ (optional)

STEP FIVE: Robotic Surgery Case log – Basic Cases

- Perform Cholecystectomy and/or Hernia Repair (5 cases minimum)
**If > 30 days between cases, complete 2 hours simulation to refresh skills
**OK to start STEP SIX before completing this step

STEP SIX: Advanced Simulator Training

- Complete the Simulator Modules with > 85% score
 - Endowrist Manipulation – Matchboard 3; Ring & Rail 2
 - Camera Control - Camera Targeting 2
 - Energy & Dissection – Energy Switching 2; Energy Dissection 3
 - Needle Driving – Suture Sponge 2

STEP SEVEN: Robotic Surgery Case log – Advanced Cases

- Perform the majority of at least two Advanced Cases (MUST complete STEP SIX first)

i.e. Segmental Colectomy, Rectopexy, Adrenalectomy, Proctectomy, Gastric bypass, sleeve gastrectomy, hiatal hernia repair

STEP EIGHT: Final Certification

- Basic and Advanced modules completed with >85% score
- Minimum 5 cases as console surgeon
- Minimum 5 cases docking robot
- Perform 5 cases as console surgeon that are formally reviewed and determined competent by the Director of Robotics at VCMC.