

## **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](http://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&Rail 1
  - 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.