NYU OBGYN
Robotically Assisted Laparoscopic Surgical Training
Program for Residents
April 13, 2014 version

Phase I part 1- Introduction To Robotic Surgery - completed by 1st half of 1st

- A. Sign on to the RTN (Robotic Training Network) website: 10 Minutes
  - Your log on is provided to you (http://www.robotictraining.org)
  - First time you log on, please update your profile to “resident” before your proceed

- B. da Vinci Si System Preparation & On-Line Training (via phase 1 RTN website): 2 Hours
  - System Technical Overview
  - Surgeon Console- 4 Pedal Energy Configuration
  - Docking
  - Safety Features- 4 Pedal Energy Configuration
  - da Vinci Si Surgeon Assessment

- C. On-Site Training ‘Dry lab”: 3 Hours
  - System Component Overview & OR Setup
  - Procedure Port Placement Philosophy
  - Docking & Instrument Overview
  - Surgeon Console Overview & Dual Console Setup
  - Emergency Procedures
  - Surgical Skills Practicum on inanimate models: please contact Veronica Lerner to set this up after you have completed your mimic modules

D. Assist in minimum of 10 robotic cases: Complete Log (attached below)

Phase I part 2– Preparation & System Training completed by 1st half of 2nd

- B. Watch On-line Video Or Procedure On DVD & Take Online Assessment: 2 Hours
  - Dr. Thomas Payne ~ 25 Minute Benign Hysterectomy
  - Dr. Arnold Advincula ~ Unedited, Full-Length Benign Hysterectomy
    1. Watch Procedures - Must Sign Into Online Community To View
       a. Watch On-Line Go To www.davincisurgerycommunity.com
       b. Click On Training Tab In Left Column
       c. Click On Surgeon Training
       d. Scroll Down To Step 1 & Click On Watch Video Next To Dr. Payne & Dr. Advincula~ da Vinci Benign Hysterectomy Procedures
    2. Take Assessment (Link) -Print Out Score Or Save Print Screen (Control & Print Screen Button)
A. Simulation Training: approximate 15-30 Hours

Using surgeon’s login information, complete mandatory 12 simulation training Mimic modules outlined below (other modules are optional).

Each individual module must be completed with an 80% or greater score at least once (please record your 2 highest scores). One exception is 70% passing score needed for Matchbox 3. You scores will be tracked electronically for verification purposes. At least 50% of the modules must be completed on “backpack” mimic simulator. Resident scores can be accessed for proof of completion. The order of modules is suggested below but it is not required for certification to complete them in the order listed. Instructions on how to set up backpack MIMIC in the OR are uploaded on Google drive (info above in part 1).

Please use your individual log on and password given to you in order to keep track of your scores. Email your scores to Dr. Lerner and Suzie Sorin for verification before you proceed to next step.

There are 2 trainers at NYU: one at MIU, one in the Main OR on 6th floor (It's in the storage room on Tisch 6. There is a keypad on the door and the code is 1516. It can be connected to either of the two consoles and the default user password is 1234).

B. On-Site Training ‘Dry lab” Console training: 2 Hours

Training Requirements

Residents will be given the opportunity to operate under the console at the attending physician’s discretion after completion of the above phases. The resident’s level of participation in advanced procedures will vary with his/her level of surgical skill, interest, and experience at the discretion of the attending physician.

Suggested times below are for the robotic hysterectomy case, myomectomy and cystectomy, divided into tasks. Minimum of 30 minutes or 50% at attending’s discretion are allotted to the resident as a primary console surgeon. More than one skill may be completed in a single case if approved by the teaching attending. If the task is not completed during the anticipated time frame, the attending physician may elect to allow additional time for task completion or offer additional attempts on future cases. Please make sure to log your console cases to RTN phase 2.

Conclusion: At the end of this curriculum, residents will have demonstrated a measurable fund of knowledge of the robotically assisted laparoscopic surgery as well as understand about quality outcomes.
**Additional Reading/Education/Resources:** In addition to the Phase I required reading, additional resources are available.

**Articles** listed below are uploaded on Google drive (log on nyuobgynsim/password nyuobgyn)
- Wright et al. Robotically-assisted vs. Laparoscopic Hysterectomy Among Women with Benign Gynecologic Disease. JAMA Feb 20 2013, vol 309, No 7
- ACOG Committee Opinion Number 44 Nov 2009. Choosing the Route of Hysterectomy for Benign Disease.

**Gynecologic procedure guides:**
- [www.davincisurgerycommunity.com](http://www.davincisurgerycommunity.com): Access To Procedure Videos & Volumes of Robotic surgical GYN Content
- **AAGL website videos:** free online membership and access available to residents at [www.aagl.org](http://www.aagl.org)

**Manual of Laparoscopic and Hysteroscopic Gynecological Surgery;** Liselotte Mettler

**Robotics in Surgery: History, Current, and Future Applications;** Russel A. Faust

**Robotic Surgery;** Farid Gharagozloo and Farzad Najam
Available via LVHN library services electronically under Access Surgery

**Online modules and learning resources**
- [www.davincisurgerycommunity.com](http://www.davincisurgerycommunity.com) – evidence-based medicine library of robotic surgical literature
- [www.davinchysterectomy.com](http://www.davinchysterectomy.com) – patient-directed website
- [www.UpToDate.com](http://www.UpToDate.com) – Robot assisted laparoscopy in gynecology

**Robotic surgery hands-on animal lab** – at the availability and discretion of Intuitive Surgical and Residency Program Director.
NYU OBGYN
Robotic Clinical Pathway for Residents

**RESIDENT RECORD**

*Please give all scorecards and certificates to residency coordinator.
Bring this record to your semi-annual evaluations.*

Name: ____________________________________________

**Phase I: Introduction (1st Year)**
- [ ] sign in and updated your profile
- [ ] Online training
- [ ] Watch Online Video and take assessment (print out score or save print screen)
- [ ] Dry Lab training

**Phase I: Preparation & System Training (2nd Year)**
- [ ] Robotic Bedside Assistant (minimum of 10 cases)

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**Phase II: Simulation MIMIC Training (By end of 3rd Year)**
- [ ] After the modules are completed, email page below to Suzie Sorin and Veronica Lerner for verification
A passing score of 80% is required for all modules except for Matchbox 3, which has as 70% passing score.

**Phase II: Console Training (3rd and 4th Year – once Phases I-III completed)**
- [ ] Log your console cases into RTN website
- [ ] Complete phase II
MIMIC scorecard: please email for verification

1. **Overview of controls**
   Score (1)_______ (2)_______

2. **Endo Wrist Manipulation Modules**
   a. Peg Board Level 2: Score (1)_______ (2)_______
   b. Ring & Rail Level 2: Score (1)_______ (2)_______
   c. Matchboard level 2: Score (1)_______ (2)_______
   d. Matchboard level 3: Score (1)_______ (2)_______

3. **Camera & Clutching Modules**
   a. Camera Targeting Level 2: Score (1)_______ (2)_______
   b. Ring Walk Level 3: Score (1)_______ (2)_______

4. **Needle Control**
   a. Dots and Needles level 1: Score (1)_______ (2)_______
   b. Thread The Rings: Score (1)_______ (2)_______

5. **Needle Driving**
   a. Suture Sponge Level 3: Score (1)_______ (2)_______
   b. Tubes: Score (1)_______ (2)_______

6. **Energy & Dissection**
   a. Energy Switching Level 1: Score (1)_______ (2)_______
   b. Energy Dissection Level 2: Score (1)_______ (2)_______