Robotic Approaches to Large Fibroids and Robotic Myomectomy

Winfred Parnell MD
Incidence:

• By ages 50
  1. 70% Whites
  2. 80% African Americans
• Accounts for 33% of 600,000 Hysterectomies in U.S.
• Most common solid pelvic tumor
• Recurrence depends on number of tumors.
  1. Single- 27%
  2. Multiple- 59%
Robotic vs. Laparoscopic Myomectomy

- 11-28% less conversion rate to open procedure
- Less blood loss
- Less pain and return normal activity sooner
- Perform more complicated procedures
- Greater ability to separate more tissue planes-precise dissection
- Better ability to reconstruct uterine defect - wrist action
- Less time
- 3D Image
Robotic myomectomy
Suggested Patient Selection Criteria for 1st Five Cases

• Non-obese patient
• Healthy reproductive age patient with few or no co-morbidities
• No previous intra-abdominal or pelvic surgery
• Single, less than 5 cm, fundal subserosal myoma
• Avoid using Gonadotropin Releasing Hormone-agonists (GnRH-a) due to distortion of capsule & softening of myoma
Suggested Pre-Operative Evaluation

• Pelvic exam—Mobile, nonbulky uterus
• Endometrial Bx: if abnormal bleeding
• Sonogram: size, location and number
• MRI: ?? Added benefit to R/O Adenmyosis, leiomyosarcoma= Inc. LDH + cent.necrosis
• Bowel Prep
• Recurrence risk (27-59% premenopausal pt.)
• Discuss future pregnancy and C-Section
Suggested Pre-operative Evaluation
In OR

- DVT Prophylaxis
- Decompress stomach (NG tube)
- Antibiotic—1 dose pre-op, 2 doses postop
- Repeat bimanual
- Marcaine 0.5% with epinephrine at port sites
Surgical Techniques

- Port Placement
- Side Docking
- Injection Solution Vasopressin 20 IU in 60 cc normal saline
- Cutting Current 30-35 watts
- Barbed Suture
- Avoid Entering the Endometrial Cavity
- Morcellation – String Technique (Leiomyomatosis?)
- Adhesion Prevention
Port placement
Myomectomy patient #1

- 38 y/o G1P1 B/F who presented to the office at 8 weeks gestation with 17-18 wk size uterus. Premature rupture of membranes at 19 weeks. Hospitalized and had spontaneous labor at 23 weeks gestation. Vaginal breech delivery.

- Breastfeeding at 4 months postpartum, 9cm fundal and 5cm post. myomas.
Thank You

Questions?