5/st GLOBAL CONGRESS ON MIGS

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SYLLABUS

ROBO-607: Advanced Robotics Course for Laparoscopic Surgeons

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FACULTY DISCLOSURE

Khara Simpson, MD*

The following have agreed to provide verbal disclosure of their relationships prior to their presentations. They have also agreed to support their presentations and clinical recommendations with the "best available evidence" from medical literature (in alphabetical order by last name). Noah

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Bureau: GSK
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ROBO-607: Advanced Robotics Course for Laparoscopic Surgeons

Chair: Jenna Z. Marcus, MD, Jin Hee Kim, MD

Faculty: Noah A. Goldman, MD, Eirwen M. Miller, MD, Khara Simpson, MD

Course Description

This course will offer surgeons with minimally invasive experience the opportunity to refine their skills and technique in both robotic assisted and traditional laparoscopic surgery. The course will be designed to help surgeons facilitate a plan for difficult cases with respect to patient anatomy, obesity, techniques for abdominal entry and specimen extraction. Faculty will address dissection in the retroperitoneum, opening and identifying spaces, vital structures and landmarks. Faculty will also explore dissection to identify and trace the ureter and techniques to identify it in patients who are morbidly obese or have complex pathology utilizing new techniques such as injection of indocyanine green. This course applies to the global AAGL audience and offers techniques aimed to promote safe and successful minimally invasive surgery.

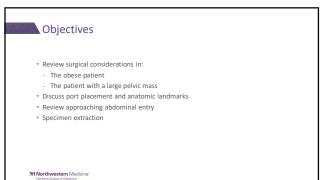
Learning Objectives

At the conclusion of this course, the participant will be able to: 1) Apply a systematic approach to complex pelvic surgical cases; 2) Develop a strategy to tackle difficult cases with respect to patient anatomy, obesity, techniques for abdominal entry and specimen extraction; and 3) Apply techniques to mitigate challenging clinical situations while maintaining a minimally invasive approach.

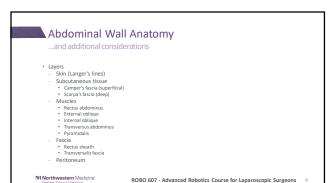
Course Outline

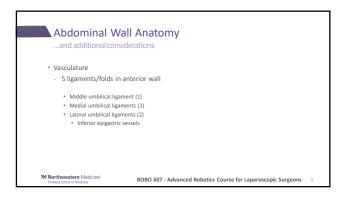
9:45 am	Welcome, Introduction and Course Overview	J.Z. Marcus/J.H. Kim
9:50 am	Planning the Procedure Start to Finish; Entry and Extraction, Obesity	J.Z. Marcus
10:15 am	Approaching the Obliterated Anterior Cul De Sac & The Large Uteri	J.H. Kim
10:40 am	Robot-assisted Laparoscopic Myomectomy: Pushing the Envelope	K. Simpson
	Approaching the Obliterated Posterior Cul De Sac: Reviewing the	
11:05 am	Retroperitoneum & Ureteral Identification Strategies and	E.M. Miller
	Keeping Them Safe	
11:30 am	Complications	N.A. Goldman
11:55 am	Questions & Answers	All Faculty
12:15 pm	Adjourn	

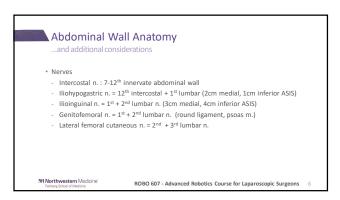


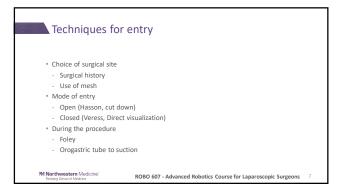


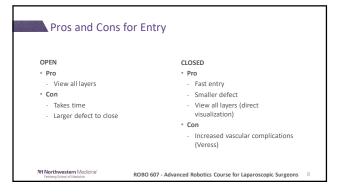


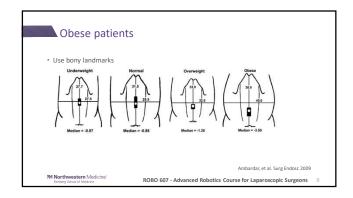




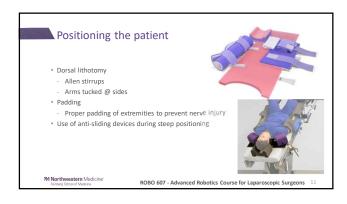


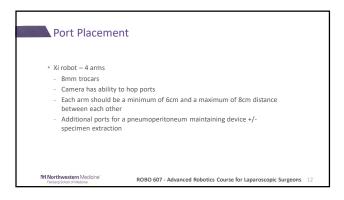


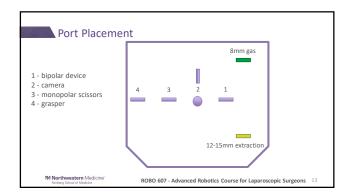














Extraction of masses

Adnexal masses 20% cases
Safe
Similar or improved outcomes
Operating time
Pain
Blood loss
Spill should be minimized, ESPECIALLY when malignancy is suspected

Extraction of masses

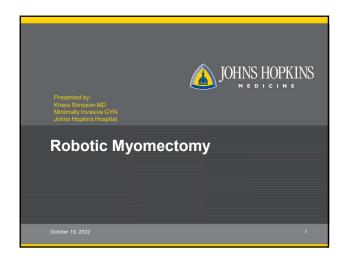
 Abdominal
 Bagging device and manual extraction
 Bagging device and needle decompression
 Bagging device and needle decompression
 Extension of midline incision

 Vaginal
 Colpotomy with drainage/aspiration
 Suspicious mass
 Never intentionally aspirated or morcellated

MNorthwestern Medicing'
ROBO 607 - Advanced Robotics Course for Laparoscopic Surgeons

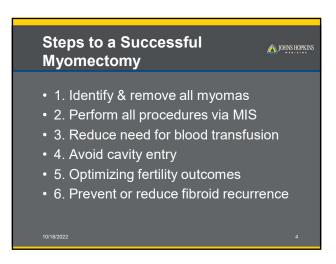
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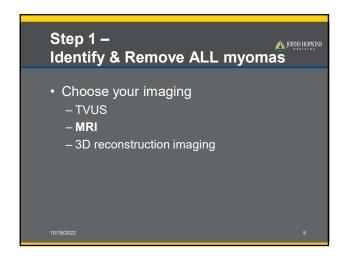


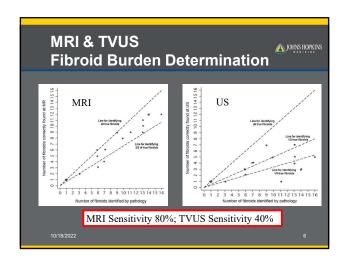


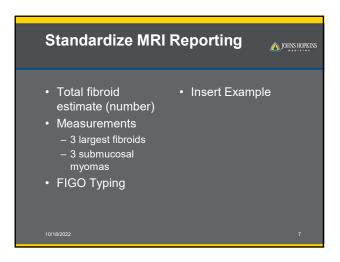


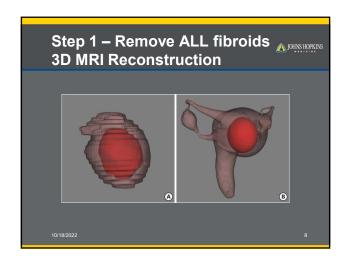
To discuss preoperative and intraoperative ways to optimize myomectomy Imaging Preventing anemia To review ways to optimize intraoperative efficiency including trainee involvement To discuss new market technologies

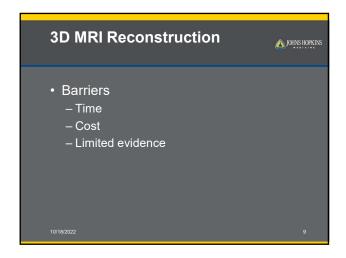


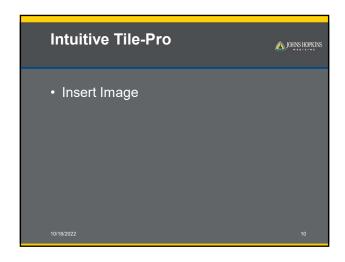


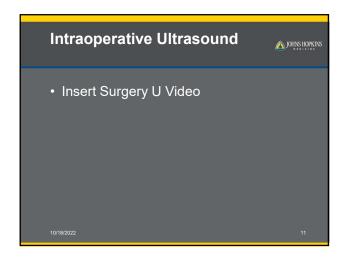


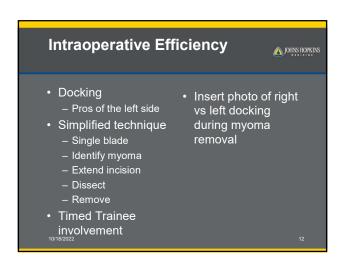


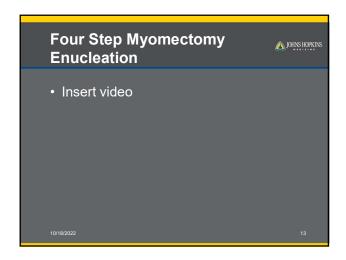


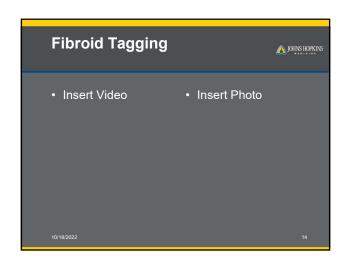




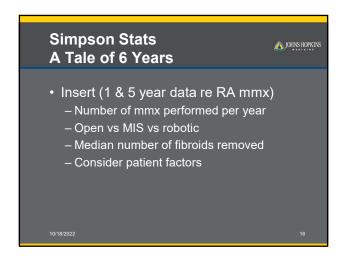


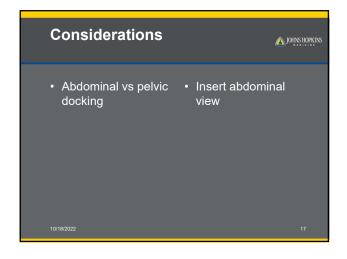


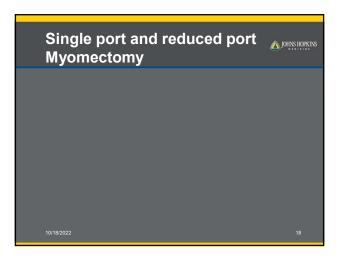


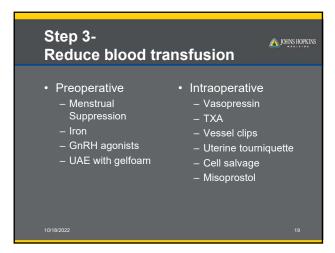


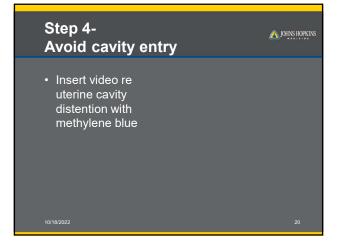


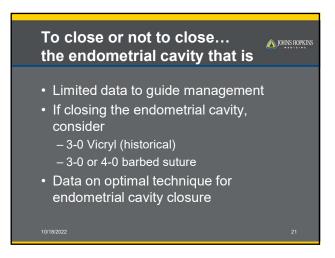


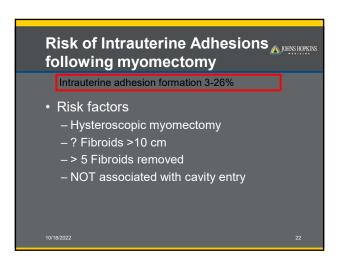


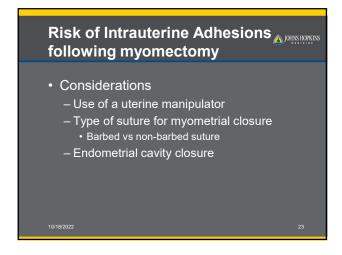


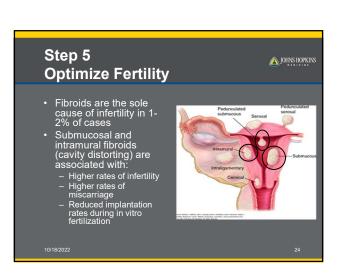


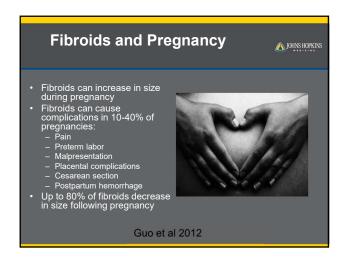


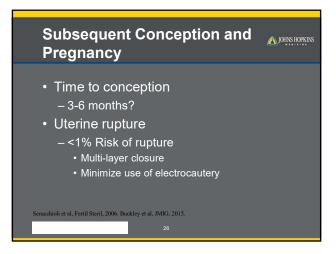


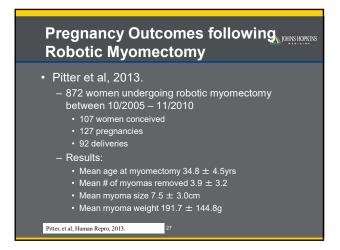


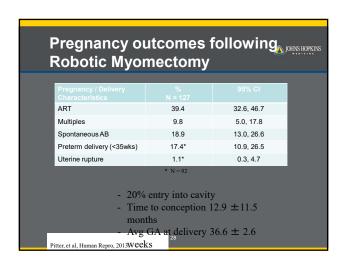


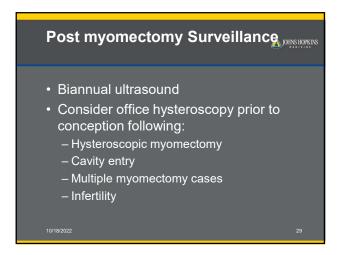


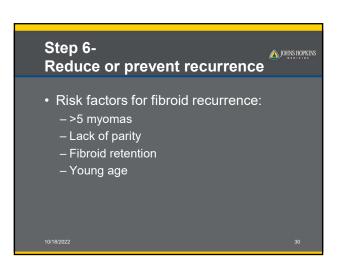


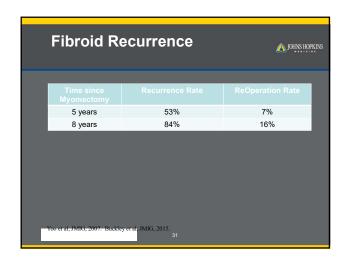


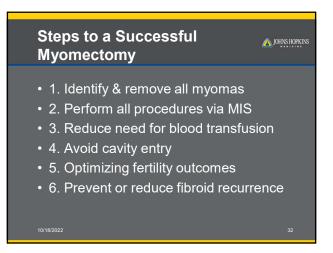


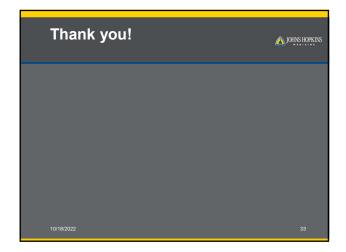


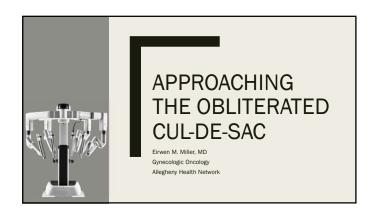








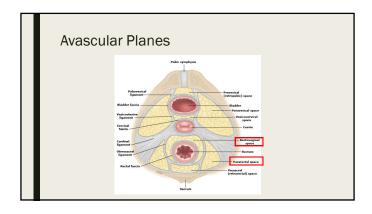


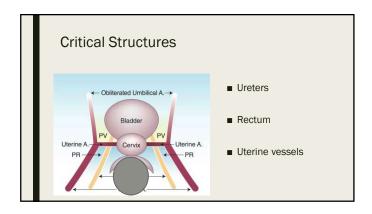


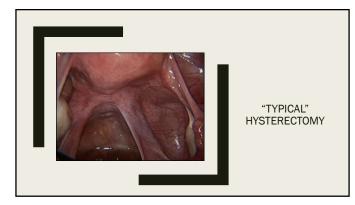














Protecting the Realm

Protecting the Realm

- Medial leaf of the broad ligament
 - Incision will lateralize the ureters
- Rectovaginal septum

 Incision along the posterior
 colpotomy cup will drop the
 uterosacral ligaments and the
 rectum
- Lateral colpotomy cup
 Ligation of the uterine vessels at this site will lateralize the ureters







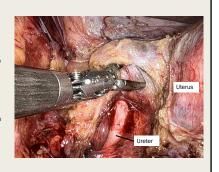
How Do I Protect the Realm?

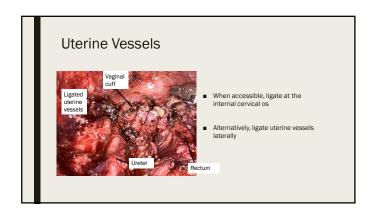
- Can't access the medial leaf of the broad ligament
- Can't visualize the posterior colpotomy cup
- Can't access the uterine vessels at the internal cervical os

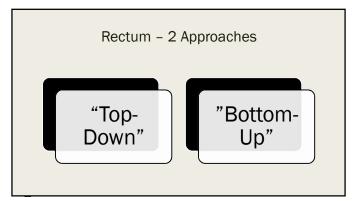
Ureter ■ Retroperitoneal dissection ■ Develop para-rectal space Sigmoid mesentery Ext. Iliac a.

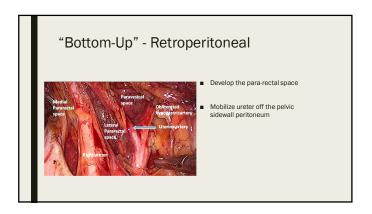
Ureter

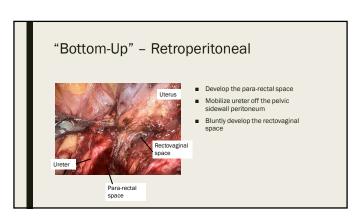
- Retroperitoneal dissection
- Develop para-rectal space
- Ureterolysis
- Dissect along the medial/superior ureter
- Mobilize ureter from the pelvic sidewall peritoneum
- Incise the peritoneum freely from pelvic sidewall to midline/rectum

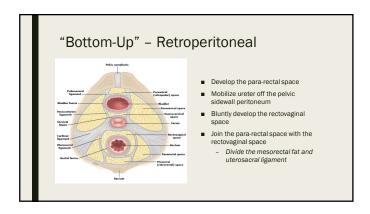


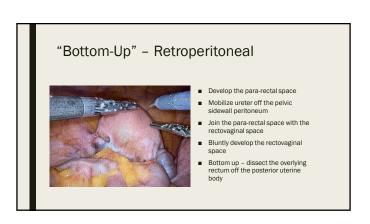










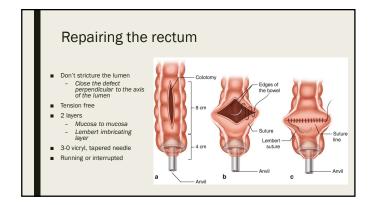














Avoiding Complications in Minimally-Invasive Surgery Noah A. Goldman, MD, MBA Medical Director of Cancer Programs Penn Medicine - Princeton Medical Center Plainsboro, NJ

Disclosure I have no financial relationships to disclose

Objectives

After the completion of this lecture, the audience member will be able to:

- 1. Understand the etiology of urinary, bowel, and vascular injuries and how to avoid them.
- Recognize a urinary, bowel, or vascular injury and begin the process of repairing such an injury.
- 3. Understand which hemostatic agents are available and how to use them.

Genitourinary Injuries

- Genitourinary injuries are most common injuries during hysterectomy
- Ureteral injuries are one of the most serious complications in gynecology
- · Most injuries are unrecognized
- · increased morbidity
- · ureterovaginal fistula
- · loss of renal function

Rate of Bladder Injury

		Vaginal Hysterectomy	Laparoscopic Hysterectomy
Donnez, O <i>et al.</i> (2009) ¹	0.73%	0.44%	0.31%
Brummer, T <i>et al.</i> (2011) ²	0.9%	0.6%	1%
Adelman <i>et al.</i> (2014) ³	_	_	0.05% - 0.66%

Rate of Ureteral Injury

	Abdominal Hysterectomy	Vaginal Hysterectomy	Laparoscopic Hysterectomy	
Donnez, O <i>et al.</i> ¹ (2009)	_	0.33%	0.25%	
Brummer, T <i>et al.</i> ² 0.3%		0.04%	0.3%	
Adelman <i>et al.</i> ³ (2014)	_	_	0.02-0.4%	

Pelvic Anatomy



- Pelvic ureter is 13 cm 15 cm in length
- Enters pelvis by crossing common iliac bifurcation
- Passes under the uterine artery
 ~1.5 cm 2 cm from internal os

Types of Ureteral Injuries

- Transection
 Scissor
 Linear stapler
 Vessel Sealing Device (VSD)
- Kinking
- Thermal Electrocautery Laser

Space of Retzius Vesicovaginal space Vesicova

Sequelae from Genitourinary Injury³

- Vesicovaginal Fistula = 3.4%
- Ureterovaginal Fistula = 2.4%
- Require Ureteral Stent = 11.8%
- Require > 1 surgery = 19.7%

Risk Factors

- Previous C-section
 OR (cystotomy) = 3.38 7.503
 >3 C-sections = 20% cystotomy rate⁴
- Previous laparotomy
- Previous laparotomy
 OR (cystotomy) = 4.69¹
- Endometriosis
- Adhesive disease
- Fibroids
- Low volume surgeons
- VSDs

Risk Factors

VSDs (Trivedi et al.)5

- $\sim\!\!900$ TLH performed at a single institution evaluated GU injury before acquiring VSD and after
 - 390 cases before VSD = 0 genitourinary injuries
 - 502 cases after VSD = 4 ureter / 2 bladder injuries

CONCLUSION:

Surgeons may have overconfidence during initial use

 ${\sf Excitement} {\to} {\sf Euphoria} {\to} {\sf Overconfidence} {\to} {\sf Troubles} {\to} {\sf Solutions}$

Prevention

- Primary Prevention
- Secondary Prevention (IntraOp)
- Tertiary Prevention (PostOp)



Primary Prevention

- Know anatomy
- Address patient-specific risk factors
- Proper exposure
- Proper technique

Recognition of Injury³

- Overall Rate = 51.1% 87.4%
- Bladder Injury = 45.2% 85.4%
- Ureteral Injury = 3.7% 12%

Secondary Prevention

- · Assess for injury intraoperatively
- Bladder
 - Air in Foley bag
 - Methylene Blue/sterile Milk retrograde
 - Cystoscopy
- Ureter
 - Cystoscopy (+/- stent)
 - IV Indigo Carmine
 - Retrograde pyelogram

Cystoscopy?

Vakili et al.6

- 471 patients (TAH/VH/TLH)
- Intraop recognition (before cysto)
 Bladder = 53%
 Ureter = 12.5%
- 96% of injuries were recognized with cysto
- 6 ureteral injuries in TAH had ureteral peristalsis

Cystoscopy?

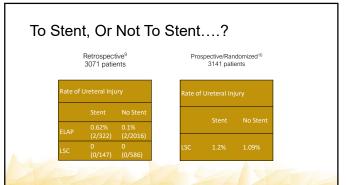
Ibeneau et al.7

- · 839 patients
- · Intraop recognition (before cysto)
 - Bladder = 37.5%
 - Ureter = 6.7%
- 97% of injuries were recognized with cysto
- 21 cases had sluggish/absent efflux with no injury
- Transection (40%) and Kinking (40%) at the level of the uterine artery

Cystoscopy?

AAGL Statement⁸

- "...surgeons and institutions should consider routine implementation of cystoscopy at the time of TLH."
 - Decreased morbidity and improved outcome
 - •80% 90% of ureteral injuries were detected



Tertiary Prevention

- Symptoms
 Abdominal pain/distention
 Oliguria
- Labs serum Cr bump = 0.8 mg/dl
- Testing
 CT urogram
 Retrograde pyelogram

Repair

- · Most bladder injuries can be repaired laparoscopically.
- · Ureteral injuries depend on location
 - within 5 cm of UVJ = ureteroneocystotomy
- below pelvic brim = ureteroneocystotomy with psoas hitch or Boari flap
- above pelvic brim = uretero-ureterostomy or diversion

Incidence

- Bowel injuries at the time of laparoscopy are typically rare
- Incidence 1/769 (0.13%)
- Range 1/3333 to 1/256 (0.03% to 0.39%)



Why do we care?

- Bowel injury is associated with high morbidity and mortality rates.
- Delayed diagnosis of bowel injury at the time of laparoscopy is associated with a mortality rate as high as 21%.
- Laparoscopic bowel injury is a significant cause of litigation in the United States.



Incidence of Bowel Injury by Procedure

• Laparoscopic Hyst (benign) 0.39%

• Laparoscopic Hyst (malignant) 0.41%

• Laparoscopic myomectomy 0.03%

• Diagnostic procedures 0.07%

Location of Bowel Injuries

• Small intestine 46.9%

• Large intestine 29.9%

• Rectum 18%

• Stomach 6%

Cause of Bowel Injury

• Veress needle, trocar 54.9%

• Electrosurgery or laser 28.7%

• Surgical dissection or LOA 11.5%

• Other (Clips, suction, etc) 0.3%

Delay in Diagnosis

• Delayed diagnosis: 41%

• Median time to diagnosis: 3 days

• Range in time to diagnosis: 1 to 13 days

Presenting Signs and Symptoms

- Peritonitis
- · Abdominal pain
- Fever
- · Abdominal distension

Mortality

- Typically occurs with delayed diagnosis
 1/125 (0.8%)
- In large analysis there were no deaths reported with intraoperatively recognized bowel injury

Entry Techniques

- · Veress Needle
- · Direct Trocar Entry
- · Hasson Open Entry
- · Optical Trocar Entry

Open vs Closed Technique

- Most studies comparing visceral injury to open and closed techniques show no difference in injury rate.
- Open technique may lead to less cases of delayed diagnosis for those bowel injuries related to entry
- Most global professional surgical societies endorse that the preferred technique should be the surgeons preference.

Avoiding Laparoscopic Bowel Injury

- Detailed surgical history and careful physical exam noting all abdominal incisions
- Choose entry technique that you are most comfortable with
 Prepare for multiple entry possibilities
- Ensure proper positioning and instrumentation

Avoiding Laparoscopic Bowel Injury

- Take the time to run and inspect the entire small and large intestine at entry or at anytime during operative dissection.
- Keep operative instruments in your sight at all times
 This includes replacement at the time of both laparoscopic and robotic surgery
- Limit the use of electrosurgery, especially when completing an extensive lysis of adhesions.
- In instances of significant pelvic adhesive disease or endometriosis using a rectal delineator is imperative.

Suspected Rectal Injury

- · Keep a high index of suspicion with difficult dissections
- Utilize proctoscopy or colonoscopy and insufflation underwater to look for air leaks
- Rectal installation of dilute methylene blue in saline may aid in detecting rectal injuries as well

Fixing Injuries

- Enterotomy (less than 1 cm)
 - Laparoscopic repair with multiple layer closer using delayed absorbable suture and/or silk
 - · Laparoscopic linear stapler
- · Enterotomy (greater than 1 cm)
 - Small bowel resection with functional end-to-end anastomosis utilizing flexible wound retractor and mini-laparotomy.

Fixing Injuries

- · Rectal Injuries
 - Size does not matter
 - Location does matter
 - · Clinical situation does matter
- · Primary, multiple layer closure
- · Primary, multiple layer closure with diverting ileostomy

Fixing Injuries

- Always consider a minimally invasive repair if technically feasible
- · Do not hesitate to convert to laparotomy if necessary
- · Do not hesitate to call for help if you need it

Why Talk About Vascular Injuries

Potentially fatal for patients

Traumatic for the surgeon and surgical team

Typically a sentinel event that will be reviewed by hospital and/or department QA committee

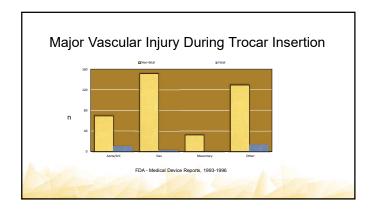
Often legal ramifications

Incidence of Major Vascular Injury

Author	Year		Incidence per 10,000	Mortality
Deziel	1993	77,604	5	8%
Sigman	1993	1,028	10	0
Saville	1995	3,951	10	0
Geers	1996	2,201	14	0
Champault	1996	103,852	5	13%
Hashizume	1997	15,422	6	0
Usal	1998	2,589	8	0
Schafer	2002	14,243	8	17%
Roviaro	2002	3,545	6	0

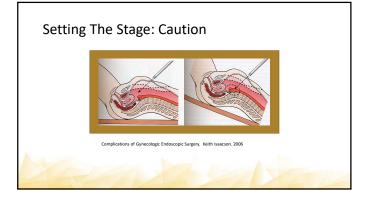
Major Vascular Injury

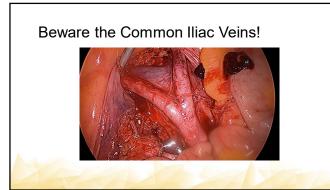
- Overall Incidence 0.05% to 0.14%
 Mortality of ~10%
- Vascular injuries have been described with all types and brands of laparoscopic trocars
- Some association with surgeon experience
- · Technical errors account for the majority of the cases
- >50% of major vascular injuries occur during insertion of the primary or ancillary trocars
 Majority of injuries occur in women who are obese (30%)
- Distance from umbilicus to aorta = 2 cm



Root Causes: Technical Errors

- •Inadequate skin incision
- •Failure to recognize anatomy
- •Improper patient positioning
- •Failure to stabilize the abdominal wall
- •Forceful thrusting on insertion of trocar
- •Perpendicular or lateral insertion of the needle or trocar
- •Failure to control the depth of penetration





Recognition of Vascular Injury

- · Occasionally vascular injuries are difficult to recognize
 - Any bleeding noted after trocar placement should be promptly investigated
- Sudden deterioration of the patient's vital signs after placement of the insufflation needle or a trocar should be considered a catastrophic vascular injury until proven otherwise

Management of Vascular Injury

- •All patients undergoing laparoscopy should have an active type and screen
- •Do not panic! Take a deep breath, but act quickly
- •Communicate
- •Call for the laparotomy equipment
- •Call for help if needed (gynecologic oncology, vascular surgery, general surgery)
- •Use the laparoscopic equipment to begin applying pressure and controlling the bleeding point

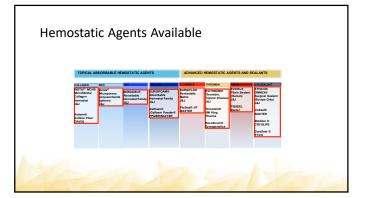
Management of Vascular Injury

- Apply pressure with suction device or 4x4 sponge
- · Be cognizant of the surrounding anatomy
- Utilize bipolar or other graspers to control bleeding point
- Use caution grasping the injury, especially if it is venous as this may make the injury worse
- · Be patient if bleeding is improving
- · Assess the ability to suture or apply hemoclips in order to repair the injury
- · Consider use of available hemostatic agents

Never feel bad about just opening

Hemostatic Agent Selection and Use

- Patient factors
- Coagulation/Platelet status
- Ability to receive blood products
- Characteristics of bleeding site
- · Bleeding characteristics
- Tissue type
- Site characteristics
- · Characteristics of hemostatic agent
- Mechanism of action
- Material properties
- · Preparation and application technique



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CULTURAL AND LINGUISTIC COMPETENCY & IMPLICIT BIAS

The California Medical Association (CMA) announced new standards for Cultural Linguistic Competency and Implicit Bias in CME. The goal of the standards is to support the role of accredited CME in advancing diversity, health equity, and inclusion in healthcare. These standards are relevant to ACCME-accredited, CMA-accredited, and jointly accredited providers located in California. <u>AAGL is ACCME-accredited and headquartered in California</u>.

CMA developed the standards in response to California legislation (<u>Business and Professions (B&P) Code Section 2190.1</u>), which directs CMA to draft a set of standards for the inclusion of cultural and linguistic competency (CLC) and implicit bias (IB) in accredited CME.

The standards are intended to support CME providers in meeting the expectations of the legislation. CME provider organizations physically located in California and accredited by CMA CME or ACCME, as well as jointly accredited providers whose target audience includes physicians, are expected to meet these expectations beginning January 1, 2022. AAGL has been proactively adopting processes that meet and often exceed the required expectations of the legislation.

CMA CME offers a variety of resources and tools to help providers meet the standards and successfully incorporate CLC & IB into their CME activities, including FAQ, definitions, a planning worksheet, and best practices. These resources are available on the <u>CLC and IB standards page</u> on the CMA website.

Important Definitions:

Cultural and Linguistic Competency (CLC) – The ability and readiness of health care providers and organizations to humbly and respectfully demonstrate, effectively communicate, and tailor delivery of care to patients with diverse values, beliefs, identities and behaviors, in order to meet social, cultural and linguistic needs as they relate to patient health.

Implicit Bias (IB) – The attitudes, stereotypes and feelings, either positive or negative, that affect our understanding, actions and decisions without conscious knowledge or control. Implicit bias is a universal phenomenon. When negative, implicit bias often contributes to unequal treatment and disparities in diagnosis, treatment decisions, levels of care and health care outcomes of people based on race, ethnicity, gender identity, sexual orientation, age, disability and other characteristics.

Diversity – Having many different forms, types or ideas; showing variety. Demographic diversity can mean a group composed of people of different genders, races/ethnicities, cultures, religions, physical abilities, sexual orientations or preferences, ages, etc.

Direct links to AB1195 (CLC), AB241 (IB), and the B&P Code 2190.1:

Bill Text – AB-1195 Continuing education: cultural and linguistic competency.

Bill Text – AB-241 Implicit bias: continuing education: requirements.

Business and Professions (B&P) Code Section 2190.1

CLC & IB Online Resources:

Diversity-Wheel-as-used-at-Johns-Hopkins-University-12.png (850×839) (researchgate.net)

Cultural Competence In Health and Human Services | NPIN (cdc.gov)

Cultural Competency – The Office of Minority Health (hhs.gov)

Implicit Bias, Microaggressions, and Stereotypes Resources | NEA

Unconscious Bias Resources | diversity.ucsf.edu

Act, Communicating, Implicit Bias (racialequitytools.org)

https://kirwaninstitute.osu.edu/implicit-bias-training

https://www.uptodate.com/contents/racial-and-ethnic-disparities-in-obstetric-and-gynecologic-care-and-role-of-implicitbiases

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https://pubmed.ncbi.nlm.nih.gov/34016820/