5/st GLOBAL CONGRESS ON MIGS

December 1-4, 2022 | Gaylord Rockies Resort and Convention Center | Aurora, Colorado

SYLLABUS

MAST-615: Master's Course in Exposure Retraction and Deep Dissection

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FACULTY DISCLOSURE

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). John

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MAST-615: Master's Course in Exposure Retraction and Deep Dissection

Chair: Xiaoming Guan, MD, PhD, Kristin E. Patzkowsky, MD

Faculty: John B. Gebhart, MD, MS, Ted T.M. Lee, MD, Shailesh P. Puntambekar, MD, PhD

Course Description

Pursuing the perfect surgical skills with optimum surgical routes and platforms for handling challenging surgeries is a fantasy of MIGS surgeons. As we all have known, no see (exposure) with no cut and sailing in uncharted waters (anatomy) with no jumps (deep dissection) are common difficulties faced by surgeons. Exposure retraction and deep dissection are the cornerstone of tackling the situations for the surgeons in the OR, nonetheless with preparation even the worst scenarios ahead can be conquered easing the surgeons' stress. Expert physicians will provide an in-depth discussion on exposure retraction and deep dissection techniques through multitudes of numerous complex cases, including laparoscopic and robotic platform, as well as multiple, single site and transvaginal routes.

The course will also cover novel transvaginal NOTES surgeries for complex cases such as deep infiltrated endometriosis and sacrocolpopexy as alternative route for most minimally invasive route. This course will illustrate the anatomical dissection of uterine transplant, which will bring you multiple views of surgical concepts of exposure and deep dissection through one of most complex surgical types. This course will have a practical focus on teaching tips and tricks for you to apply to your operating room and incorporate them into your pre-operative assessment to ensure your success in handling even the most complex cases.

Learning Objectives

At the conclusion of this course, the participant will be able to: 1) Apply exposure retraction and deep dissection surgical skills on various complex cases in your own practice; 2) Implement a multiplatform technique for even the most complex surgeries; surgeon can absorb the tips and tricks for his most familiar surgical platform; 3) Illustrate the pros and cons of the different routes in challenging surgeries; and 4) Compare how differently specialized surgeons utilize different techniques for the advanced cases.

Course Outline

2:30 pm	Welcome, Introduction and Course Overview	X. Guan/K.E. Patzkowsky
2:35 pm	Laparoscopic Management of Ovarian Remnant	T.T.M. Lee
3:00 pm	Tackling Oncological and Other Complex Cancer Surgeries	S.P. Puntambekar
3:25 pm	Challenging Robotic Surgeries	K.E. Patzkowsky
3:50 pm	Transvaginal Complex Gynecologic Surgery	J.B. Gehart
4:15 pm	Single-site and vNOTES Routes for Challenging Surgeries	X. Guan
4:40 pm	Questions & Answers	All Faculty
5:00 pm	Adjourn	

Ovarian Remnant: Diagnosis, Prevention and Management Ted Lee, M.D. Director, Minimally Invasive Gynecologic Surgery Magee Womens Hospital



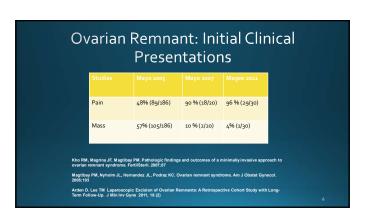
Objectives

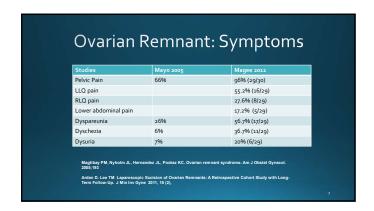
- Describe risk factor and presenting symptoms of ovarian remnant.
- Explain the key diagnostic modalities for ovarian remnant.
- Recognize the surgical risks associated with surgical management of ovarian remnant.
- Use anatomic approach in the prevention and management of ovarian remnant

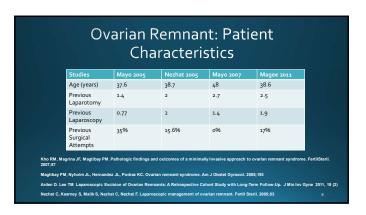
Ovarian Remnant: Definition

 Retention of ovarian tissue with prior documentation of prior salpingoophrectomy.

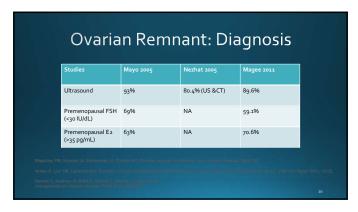
Common Risk Factors • Endometriosis • Previous surgeries • PID

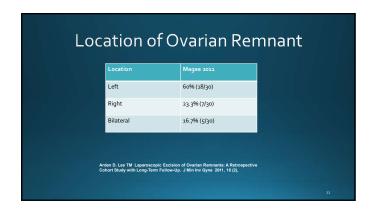


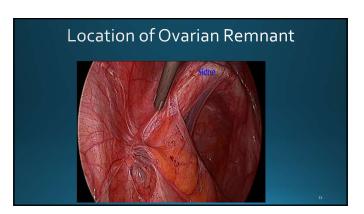


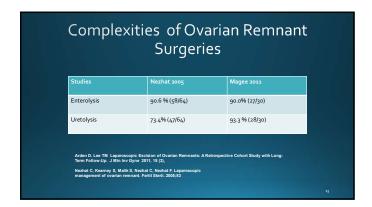


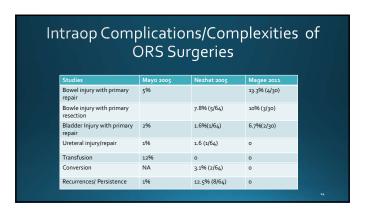


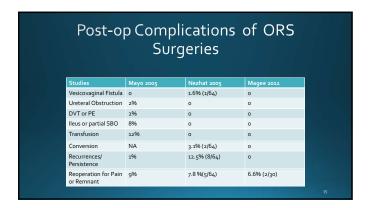


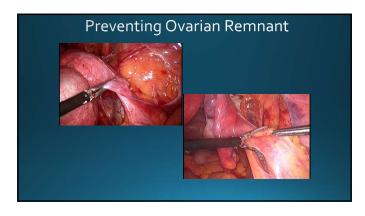








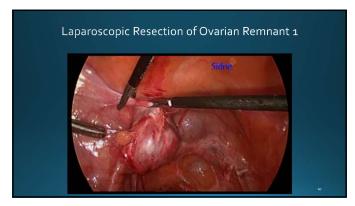










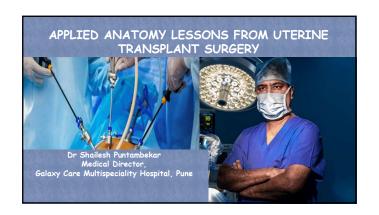




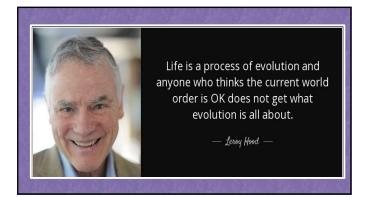


References Magtibay PM, Nyholm JL, Hernandez JL, Podraz KC. Ovarian remnant syndrome. Am J Obstet Gynecol. 2005; 193(6):2062-6. Arden D, Lee T. Laparoscopic excision of ovarian remnants: retrospective cohort study with long-term follow-up. J Minim Invasive Gynecol. 2011;18:194–199. Nezhat C, Kearney S, Malik S, Nezhat C, Nezhat F. Laparoscopic management of ovarian remnant. Fertil Steril. 2005;83:973–978 Kho RM, Magrina JF, Magtibay PM. Pathologic findings and outcomes of a minimally invasive approach to ovarian remnant syndrome. FertilSteril. 2007;87(5):1005-9

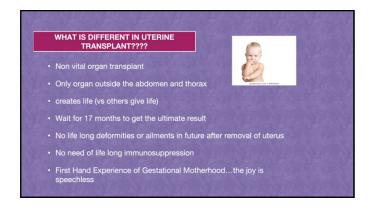
Conclusion High index suspicion is essential for the diagnosis of ovarian remnant in patients with high risk factors. Imaging and/or premenopausal hormones will detect close to 100% of ovarian remnant. Ovarian remnant is a surgically challenging condition even in the best of hands. Risk of visceral injury and its associated repair is high. Discussion of the specific risks should be carefully documented in the inform consent process. Adherence to the anatomic approach to salpingoophrectomy will minimize the risk of ovarian remnant. Laparoscopic resection of ovarian remnant is safe and feasible in the majority of cases.

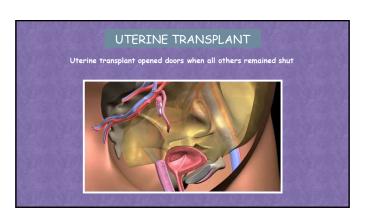










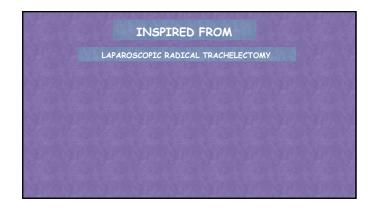




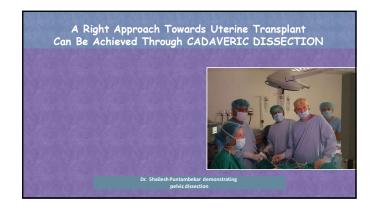






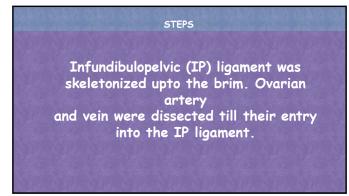




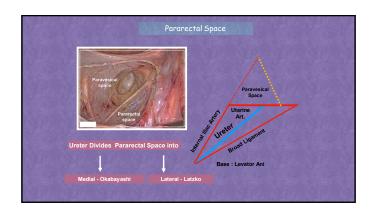


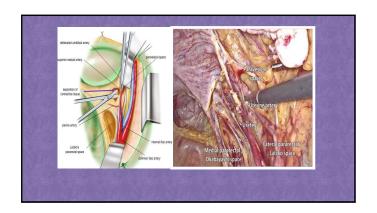


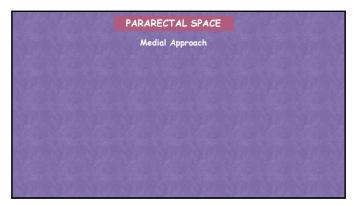




pararectal and paravesical spaces were dissected upto the Levator Ani muscle

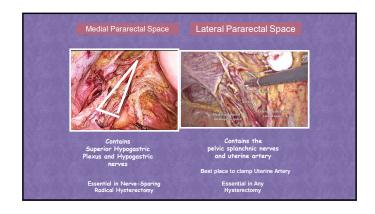


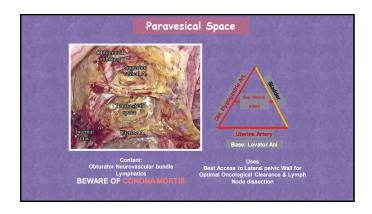


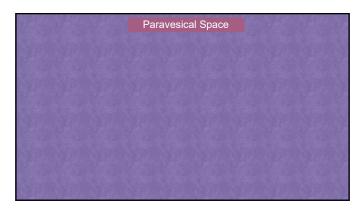


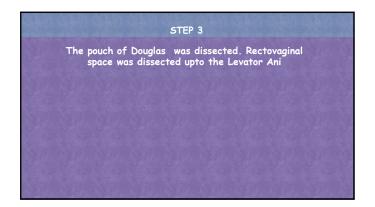
Lateral approach

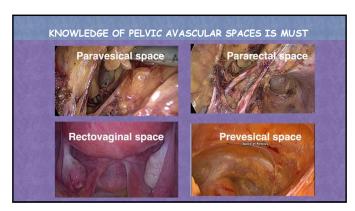
Entering the Space following separation of Posterior fascia of
Transverse Cervical Ligament and Int. Iliac vessel Sheath from the
main body



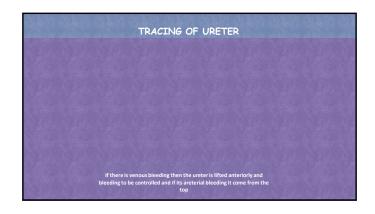




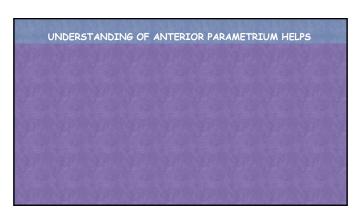


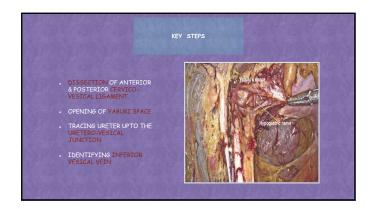


The key step in this surgery is the unsteric dissection The Uterine artery and vein have arborisation and small branches around the ureter were carefully separated, ligated or clipped. Thus, the left uneter was lateralized, totally separated from all around and completely denuded

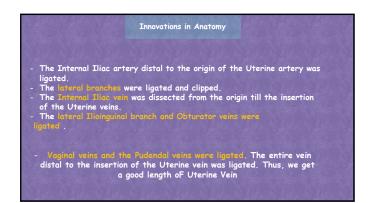


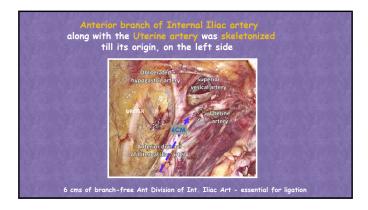


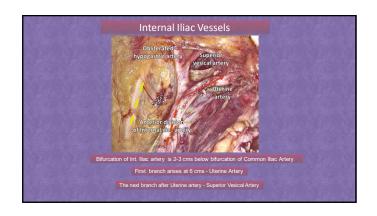


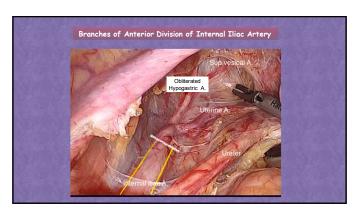


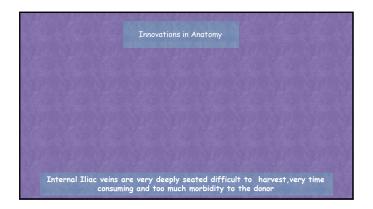


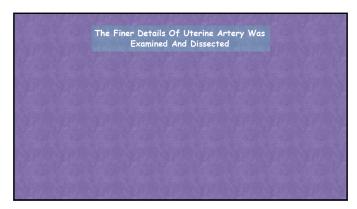




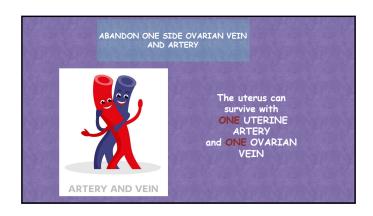


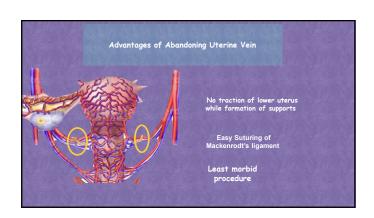


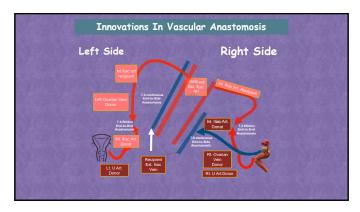


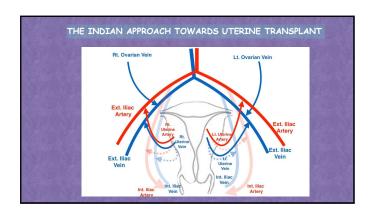


UTERINE ARTERY BRANCHES CLIPPING

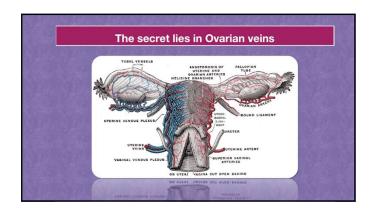


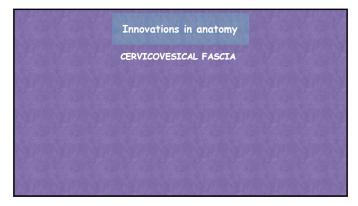


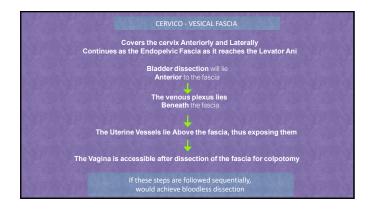






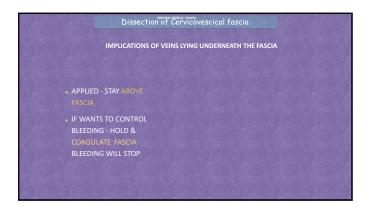


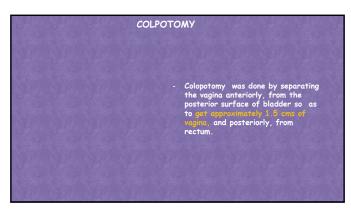


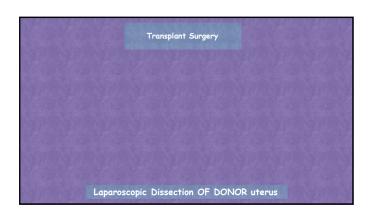


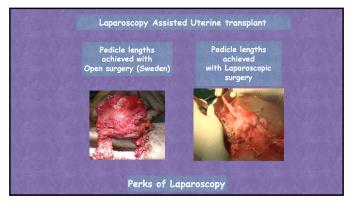
BLADDER DISSECTION PRESERVING THE CERVICOVESICAL FASCIA (PUSH
THE BLADDER AWAY)

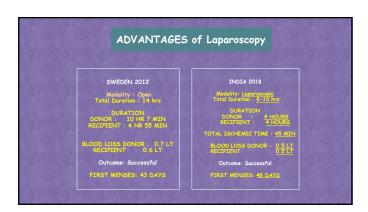
the bladder, dissection to be done remaining above the cervicovesical fascia to stay away from the





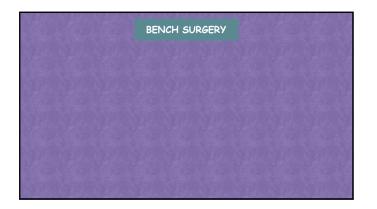


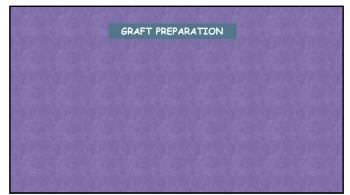




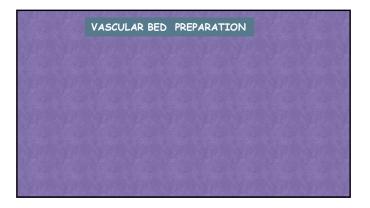
BENCH PREPARATION

Uterus was placed on ice slush flooded with cold
Custadiol solution. Bilaterally, Internal Iliac
artery and veins and Ovarian vessels were
identified, dissected, skeletonized, terminal
openings prepared and kept ready for
anastomosis

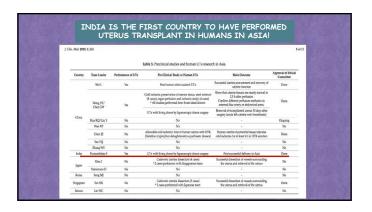


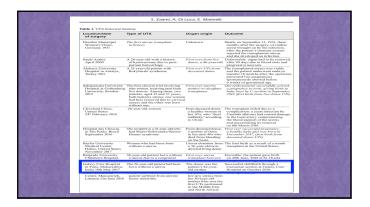


Demonstrating utero ovarian anastomosis















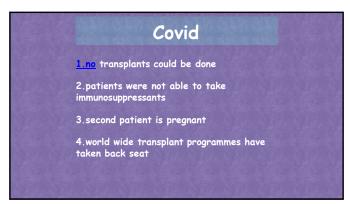


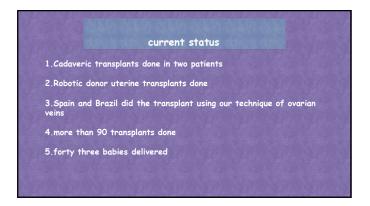




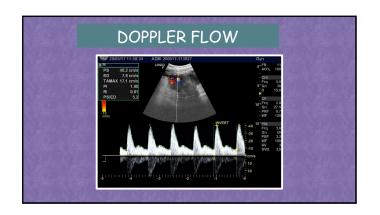




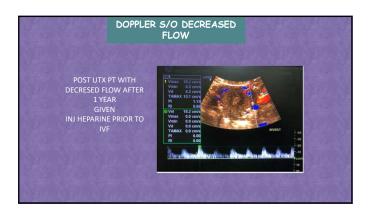


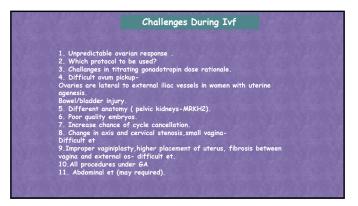


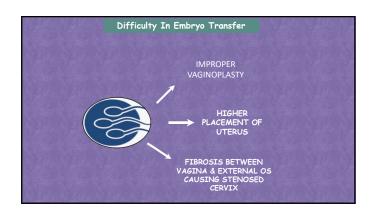


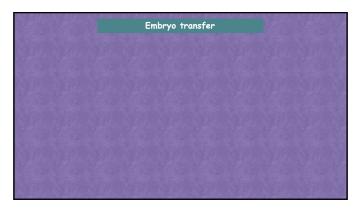


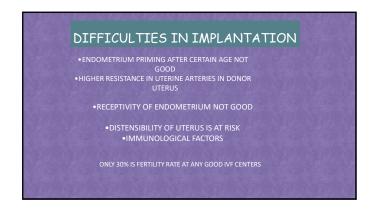


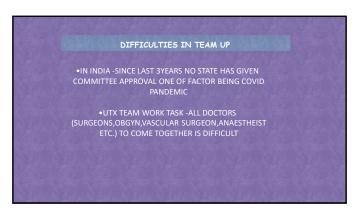




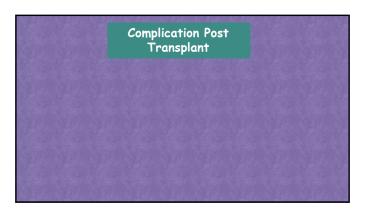








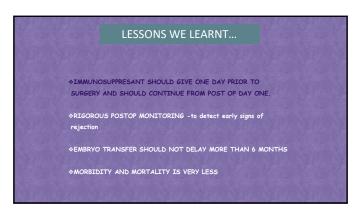




Post Transplant
Hysterectomy

Atrophic uterus post
Uterine Transplant









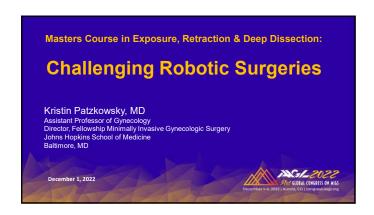


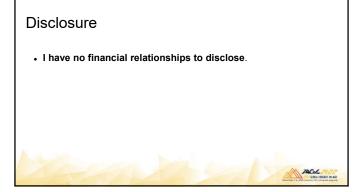


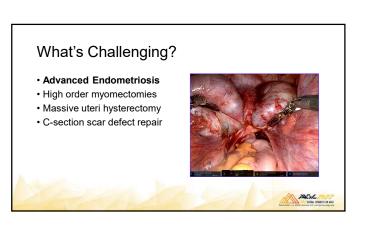


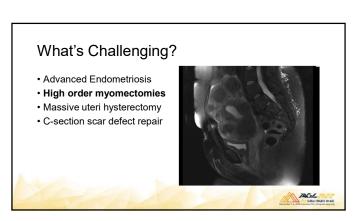


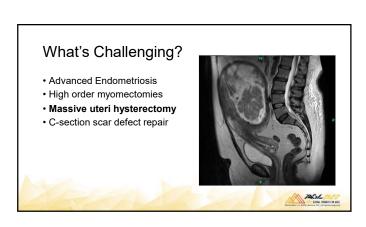


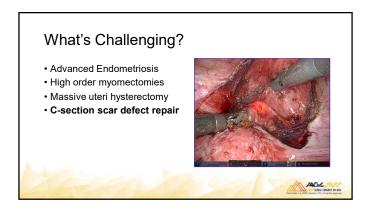














Objectives

- Illustrate techniques for tackling complex MIS surgical scenarios
- Recommend strategies for approaching complex pathology
- Discuss ways the robotic platform can be utilized to simplify challenging pathology

COMBO PATHOLOGY

CASE #1

37yo G1P1 s/p abd myomectomy with recurrent fibroids & bulk symptoms.

- Exam: midline vertical incision, 2cm supraumbilical hernia, 22wk size fibroid uterus with a cervical fibroid filling posterior cul-de-sac and deviating cervix anteriorly
- Procedure: TRH, BS
- EBL: 500cc
- Specimen weight: 1153g

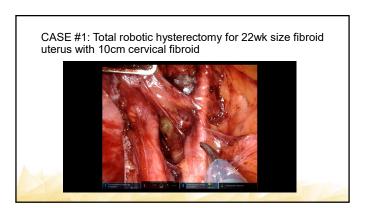


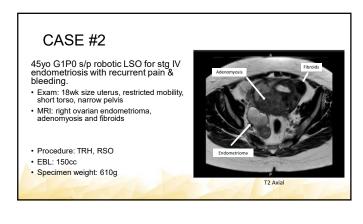
CASE #1: 22wk Fibroid Uterus with 10cm Cervical Fibroid

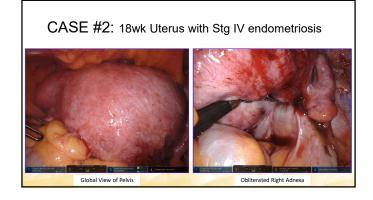
Cervical Fibroid

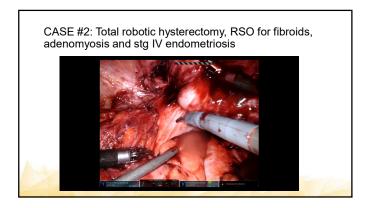
View from Left

View from Right

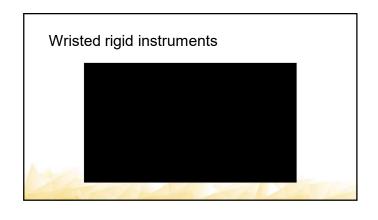










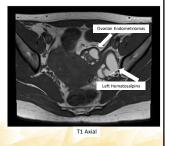


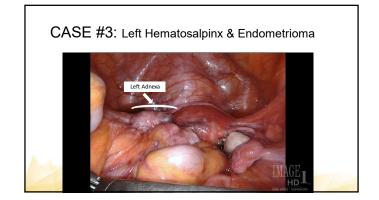


CASE #3

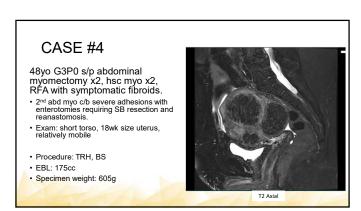
33yo G0 with AUB, worsening dysmenorrhea.

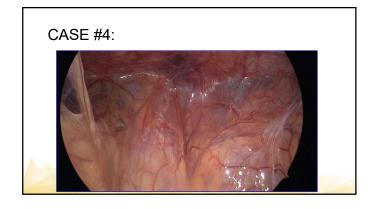
- Exam: relatively mobile uterus, nonpalpable adnexa
- MRI: left hematosalpinx and left ovarian endometrioma
- Procedure: Robotic LSO, myomectomy
- EBL: 200cc

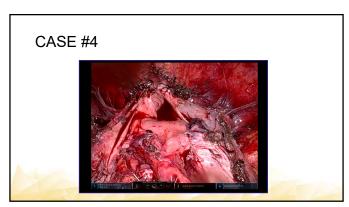










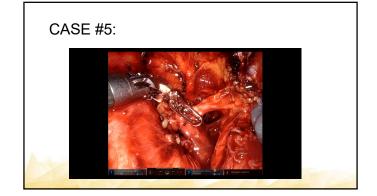


CASE #5

46yo G3P2 with worsening dysmenorrhea and 6cm right ovarian endometrioma.

- Exam: 8wk size retroverted uterus with restricted mobility, bilateral firm adnexal masses posterior to the uterus
- Procedure: TRH, BSO
- EBL: 100cc
- · Specimen weight: 172g



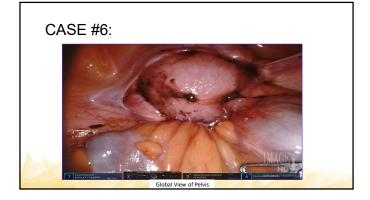


CASE #6:

35yo G3P2 with AUB, dysmenorrhea secondary to hematosalpinges, endometriomas and adenomyosis, s/p aborted laparoscopy, desires definitive treatment.

- Exam: 10wk size RV uterus, well suspended, minimally mobile
 Procedure: TRH, BSO
- EBL: 150cc
- · Specimen weight: 184g





CASE 6

VIDEO

What do these cases have to do with each other?

The Simple Secret Retract, Expose, Dissect

- Know anatomy
 Normalize Anatomy
 Create normal
 Go Retroperitoneal
 Identify and dissect your deep pelvic spaces
 Circle the beast
 Don't he despection.

- Don't be dogmatic
 "Let me see what I can do"
 Use the robot to your benefit!

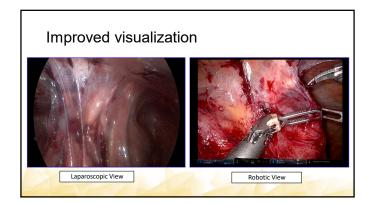
Benefits of the Robot for Complex Pathology

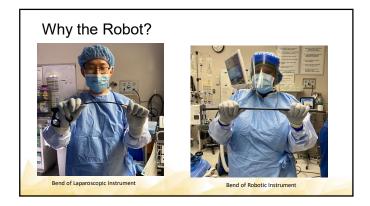
Complex Dissections

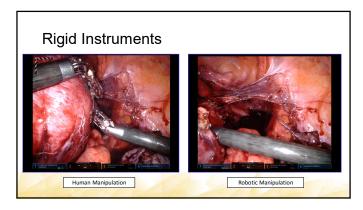
- 3-D visualization
- Wristed instruments
- Not assistant dependent (4th arm)
- Can get into & hold deep space dissections without fatigue

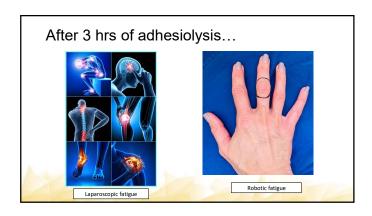
Large Pathology

- RIGID instrument shaft
- Wristed instruments
- Xi- easy port hopping
- Can maintain hold of a large uterus without fatigue



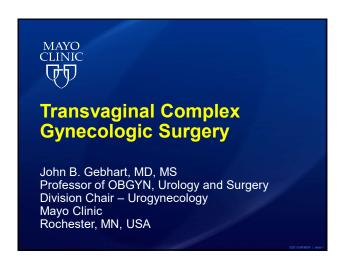






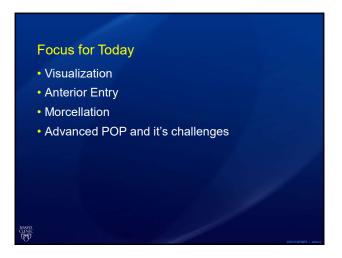








Learning objectives • Share keys to "seeing" during vaginal surgery • Tips and techniques for difficult transvaginal surgical situations









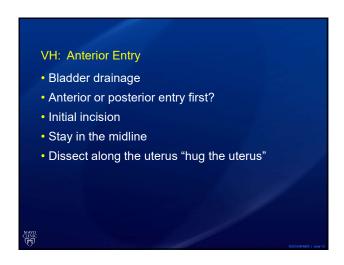


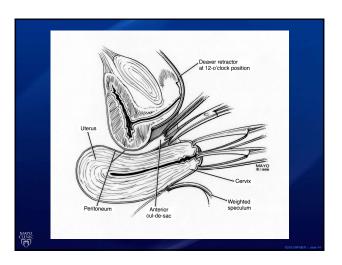




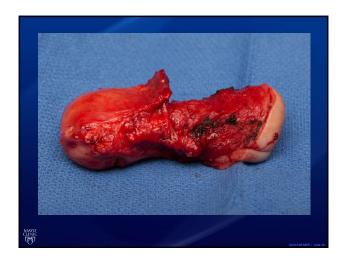




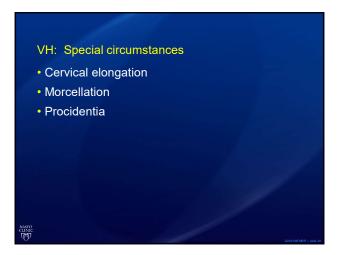


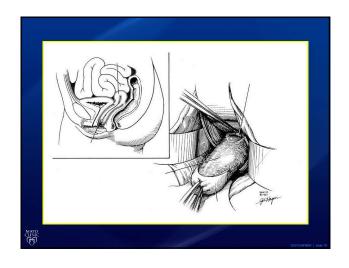


















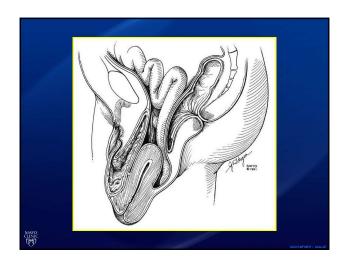




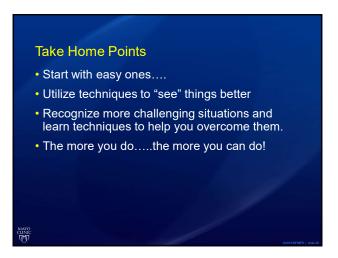




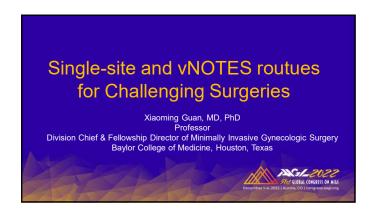


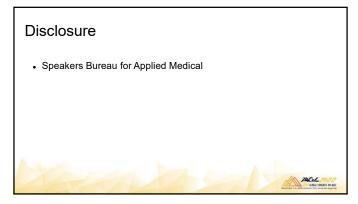




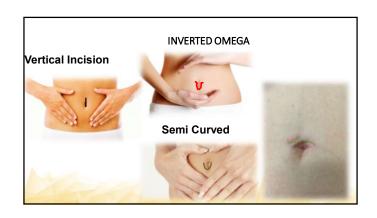


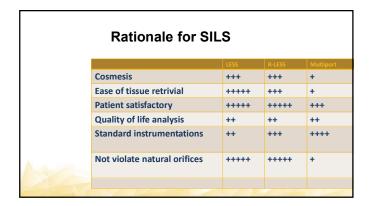




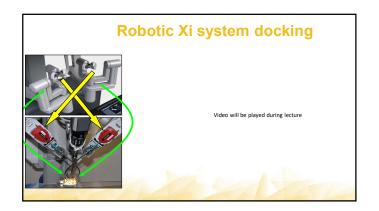


Objectives Articulating single-site and vNOTES surgery exposure techniques Elaborating the benefits and tips and tricks of single-site and vNOTES surgery Demonstrating the complex surgeries through single-site or vNOTES routes

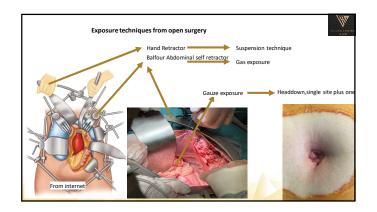












Surgical
exposure is
the
foundation
of all

Surgery

Single-site surgery has exposure issues due
to limited help from assistants

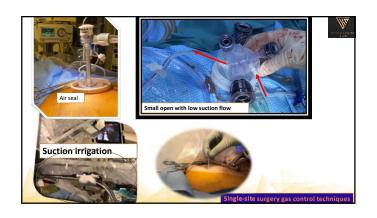
Surgical exposure includes

1. Clear and smoke-free total surgical field
of view

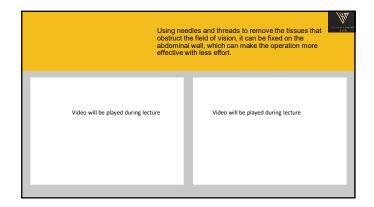
2. Exposure of Local Surgical site – uterine
manipulator, Head Down

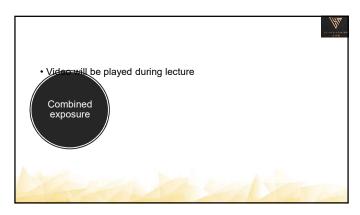
3. Consider a single-site plus one

The surgeon should decide the exposure of
the operation according to the difficulty of the
operation

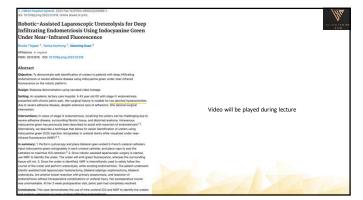


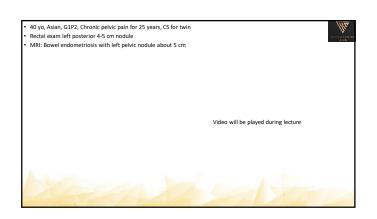


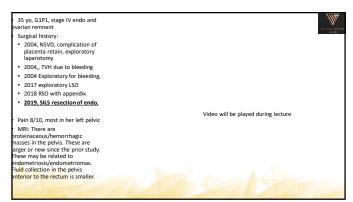


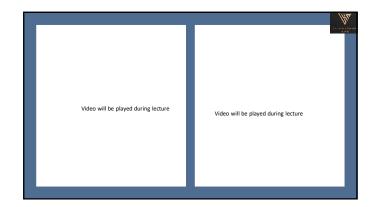


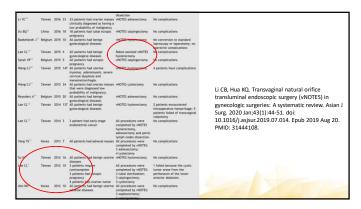


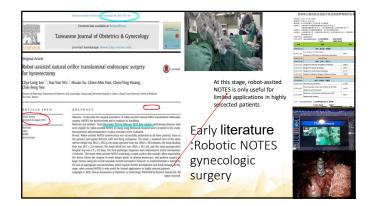




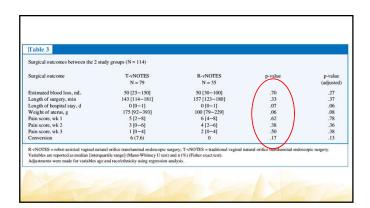


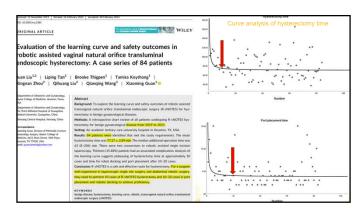








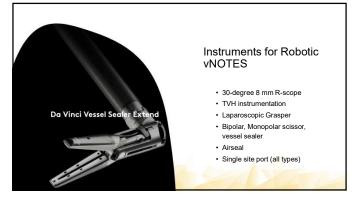


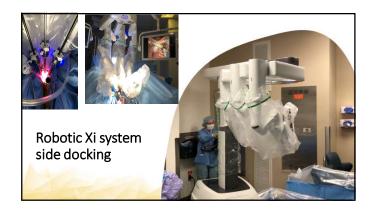


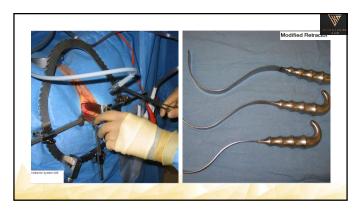


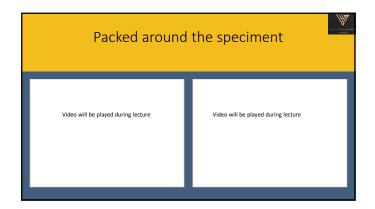


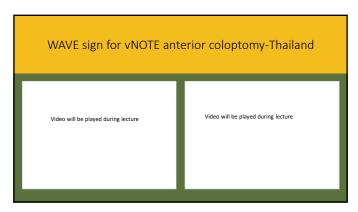






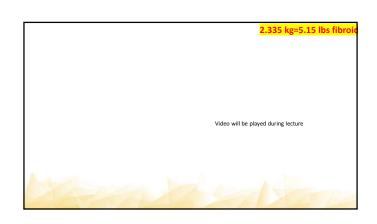


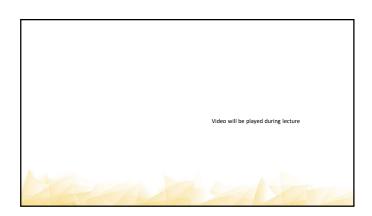


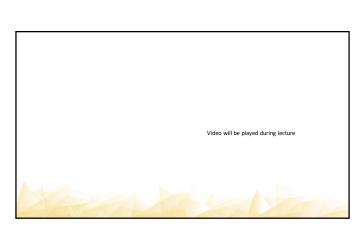


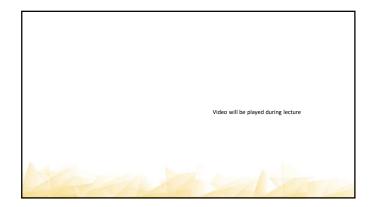
What Have been done in Robotic VNOTES?

- Hysterectomy
- Adnexal surgeries
- Myomectomy
- High uterosacral ligament suspension
- Sacrocolpopexy
- Endometriosis resection
- Cancer surgery (not yet)









References

- B3.H. Yon CF, WU KY Libro CM, See CL. Hydrachomy via transagend natural orfice branchment endoccopic suppry (NOTES) finability of an invovative approach. Takens J Odded Gynecol 2012;51(5): 2.1 ± 8.8 ± 8.2 ± 8.0 ± 1.0

- Booglas Geon J. Tight R. George J. State J. Stat
- des 10 1010 by g 2015.03.023

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- Underly, 2021 Aug. 154 (105-14). doi: 10.1016/j.j.unol.y. 2021 0.0016. Epob 2021 Mar 28. MING 33775785.

 Aug. Y, Cologodo J. J., L. J. Barr Z, Paux X, Paux X,
- Arnold Advincula, Tamisa Koythong, Juan Liu, Xisoming Guan. Minimally Invasive Gynecologic Surgery update: vNOTES Hysterectomy. OBG Management,

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

https://www.contemporaryobgyn.net/view/overcoming-racism-and-unconscious-bias-in-ob-gyn

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