## 5/st GLOBAL CONGRESS ON MIGS

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

### SYLLABUS

COMP-616: To Do or Not to Do...Making
Safe Decisions in the Operating Room
- Preventing, Avoiding and Managing
Complications in MIGS

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Linda J. Bell, Admin Support, AAGL\*

Linda D. Bradley, MD, Medical Director, AAGL\*

Erin T. Carey, MD, MSCR Honorarium: Med IQ Research Funding: Eximis Mark W. Dassel, MD\*

Linda Michels, Executive Director, AAGL\*

Vadim Morozov, MD Speaker: AbbVie

Consultant: Medtronic, Lumenis

Erinn M. Myers, MD

Speakers Bureau: Intuitive Surgical

Amy J. Park, MD Speaker: Allergan

Nancy Williams, COO, CME Consultants\*

Harold Y. Wu, MD\*
Giovanni Roviglione, MD\*

Linda C. Yang, MD, MS – Ownership Interest: KLAAS, LLC

### **SCIENTIFIC PROGRAM COMMITTEE**

Andrew I. Sokol, MD - Medical Legal Defense: Johnson & Johnson

Medical Legal Defense: Johnson & Johnson

Angela Chaudhari, MD - Consultant: Johnson & Johnson

Cara R. King, DO\*

Mario Malzoni, MD – Consultant: KARL STORZ Jessica Opoku-Anane, MD, MS – Consultant: Boston Scientific; Myovant Sciences; AbbVie Shailesh P. Puntambekar, MD, PHD\*

Frank F. Tu, MD, MPH\*

Jonathon M. Solnik, MD – Consultant: Olympus; Medtronic; Stockholder: Field Trip Health, Inc.; Felix

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Linda D. Bradley, MD, Medical Director\* Linda Michels, Executive Director, AAGL\*

### **FACULTY DISCLOSURE**

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Audrey T. Tsunoda, MD, PhD- Consulting: AstraZeneca; MSD; GSK; Speakers' Bureau: AstraZeneca; Roche; MSD;

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Accommodations, Expenses for Lectures/Educational

Activities: AstraZeneca; Roche; MSD

Megan Wasson, DO\*

Linda C. Yang, MD, MS – Ownership Interest: KLAAS, LLC

### COMP-616: To Do or Not to Do...Making Safe Decisions in the Operating Room – Preventing, Avoiding and Managing Complications in MIGS

Chair: Giovanni Roviglione, MD, Linda C. Yang, MD, MS

Faculty: Samar Nahas, MD, Audrey T. Tsunoda, MD, PhD, Megan N. Wasson, DO

### **Course Description**

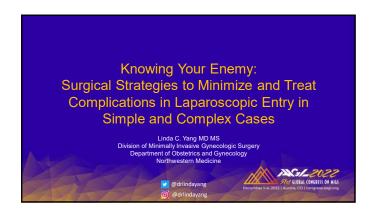
This course embraces all possible complications that may occur during minimally invasive surgery performed for easy or complex benign conditions such as deeply infiltrating endometriosis or oncological diseases. The different topics will begin with fundamental anatomical concepts and proceed to standard techniques and tips and tricks to perform a safe and successful surgery in easy or difficult cases. Moreover, surgical videos will be highlighted in each presentation to demonstrate complications and troubleshooting to help the learner better understand how to prevent and manage them independently or as part of a multidisciplinary team. Every presentation will end with a strategic algorithm which the learner will be able to easily recall and apply to future scenarios when faced with different types of complications.

### **Learning Objectives**

At the conclusion of this course, the participant will be able to: 1) Implement a stepwise algorithm to promptly recognize and address surgical complications; 2) Select the proper surgical procedures to manage vascular, bowel or genitourinary tract injuries; and 3) Apply surgical tips and tricks to reduce complications during difficult minimally invasive gynecologic surgeries.

### **Course Outline**

2:30 pm	Welcome, Introduction and Course Overview	G. Roviglione/L.C. Yang
2:35 pm	Knowing Your Enemy: Surgical Strategies to Minimize and Treat Complications in Laparoscopic Entry in Simple and Complex Cases	L.C. Yang
3:00 pm	To Resect or Not to Resect? How to Safely Manage Bowel Adhesions and Build Confidence When Tackling Deeply Infiltrating Endometriosis of the Bowel	M.N. Wasson
3:25 pm	The Water Under the Bridge Falls Safely into the Lake": How to Prevent and Manage Ureteral or Bladder Lesions in MIS	G. Roviglione
3:50 pm	Are You Really Ready? All You Need to Know to Rapidly Manage Vascular Complications in MIS: The Final Algorithm	S. Nahas
4:15 pm	How to Prevent Visceral, Vascular or Neural Complications In MIS: A Roadmap	A.T. Tsunoda
4:40 pm	Questions & Answers	All Faculty
5:00 pm	Adjourn	





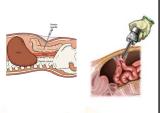
### Objectives

- Describe preventative strategies for safe peritoneal access
- Incorporate tips and tricks for entry techniques into existing surgical practice
- · Review management of entry-related complications



### **Abdominal Access Complications**

- Primary peritoneal access injury occurs in <1% of patients</li>
- **Trocar** = most common device cited in malpractice claims associated with LSC procedures
- >50% of LSC complications occur during initial peritoneal access<sup>1-5</sup>



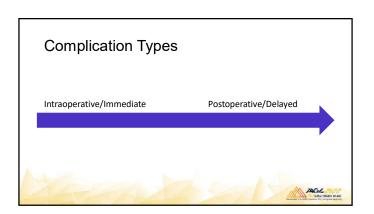
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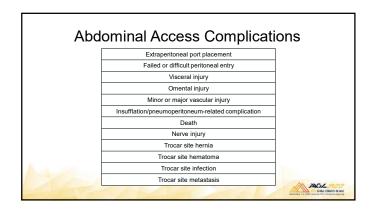
### MAUDE Database - Trocar Injury/Fatality

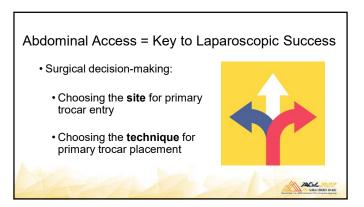
- · Data collection 1997-2002
  - 31 fatal injury cases
  - 1353 nonfatal injury cases
- · Most fatalities involved vascular injuries
- · Other fatalities: unrecognized bowel injury
- Cholecystectomy most frequently associated with both fatal and nonfatal trocar injuries

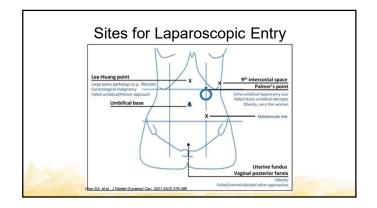
Fuller et al., J Minim Invasive Gynecol 2005;12(4):302-

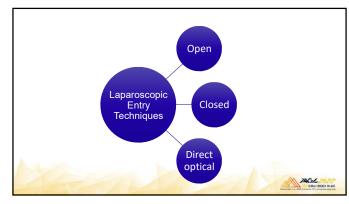


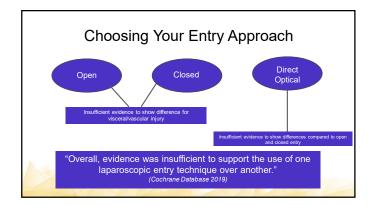


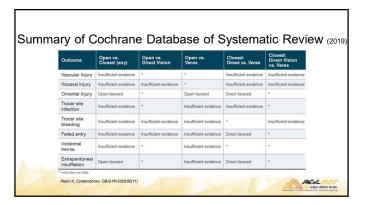












### **Risk Factors**

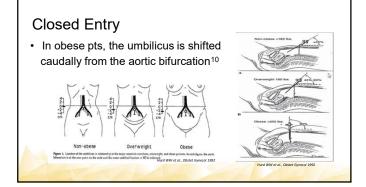
- History of prior abdominopelvic surgery
  - C-section
  - Hernia repair with mesh
  - Laparotomy
- Extremes of BMI
- Pregnancy
- Large abdominal/pelvic mass

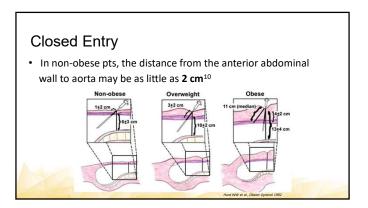
Zero Risk Factors ≠ Zero Complications

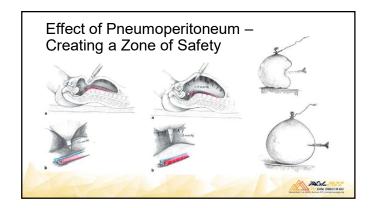


### Group Rate of Umbilical Adhesions Rate of Severe Adhesions w/ Potential for Bowel Injury No prior surgery 0.68% 0.42% Prior LSC 1.6% 0.8% Prior laparotomy (horizontal suprapubic) 19.8% 6.87% Prior laparotomy (midline) 51.7% 31.46%



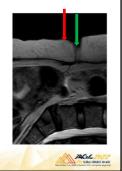


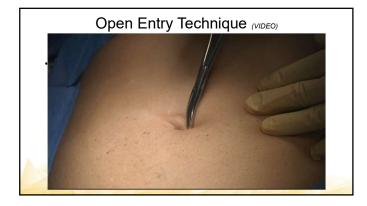


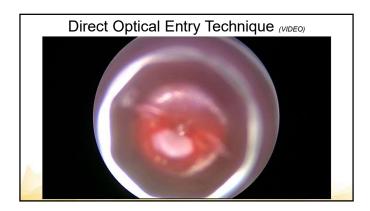


### Open Entry

- Choose your incision wisely: infraumbilical vs intraumbilical
- Intraumbilical incision affords entry at the thinnest aspect of the umbilicus
- Elevate the abdominal wall and provide adequate traction
- Avoid pushing the fascia away it's closer than you think!

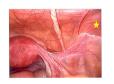






### **Accessory Trocar Placement**

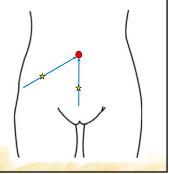
- · Know your abdominal wall landmarks
- · Direct visualization is essential
- · Bladder decompression (if suprapubic trocar placement)
- · Maintain perpendicular angle of insertion



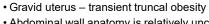


### "Rule of 1/3s"

- 1/3 distance between ASIS and umbilicus
- 1/3 distance between pubic symphysis and umbilicus



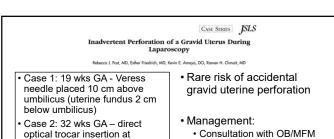
### Accessory Trocar Placement (VIDEO)



Clinical Challenges - Pregnancy

- · Abdominal wall anatomy is relatively unchanged
- Potential risk of injury to underlying gravid uterus consider open entry technique or intraoperative guidance of Veress needle insertion
- Shift trocar placement cephalad
- Use of an angled 30 degree scope and "port hopping"





subxiphoid

Case 3: 18 wks GA twins -Veress needle placed 5 cm above umbilicus

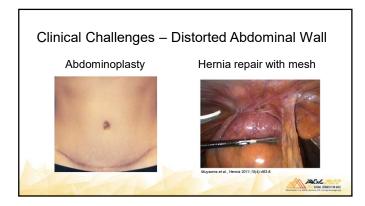
- Consultation with OB/MFM
- Surgical repair may not be necessary (~operative fetoscopy) if hemostatic with minimal fluid leak

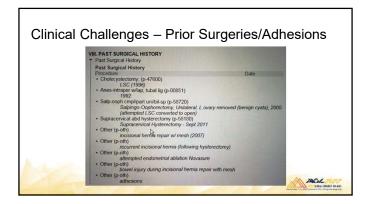


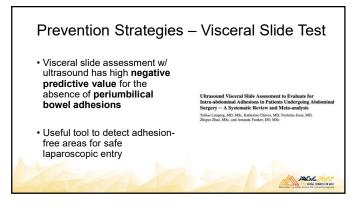
### Clinical Challenges - Obesity

- Umbilicus = thinnest entry point, however, distortion of umbilical location due to panniculus
- · Use caution with Veress (umbilical) entry given risk of failed entry
- · Consider LUQ entry
- · Extra long trocars may be necessary











### Ensuring Safety After Entry - Stop and Survey!

- Direct inspection beneath trocar entry site
- 360 degree survey
- Delay Trendelenburg positioning until survey complete



### Intraoperative Entry Complication - Vascular

- Timing: entry, dissection, adhesiolysis, procedural
- · Vessels at risk:
  - · Anterior abdominal wall

    - Inferior epigastric arterySuperficial circumflex iliac artery
  - · Posterior abdominal wall
    - Aorta

    - · External, internal, and common iliac arteries/veins
  - Other: omental, mesenteric



### Recognition of Vascular Injury

- Retroperitoneal hematoma superior to sacral promontory
- · Active bleeding from vessels
- Free blood in the abdominal cavity
- · Hemodynamic instability





Communication with all team members - RN, OR staff, anesthesiology
Consultants – vascular surgery, trauma surgery, IR
Blood bank – massive transfusion/hemorrhage protocol Leave trocar in place Employ direct pressure (compress or clamp) Minimize irrigation Review landmarks and gain exposure +/- conversion to laparotomy Arterial or central line placement Foley catheter Hemostatic agents versus surgical repair

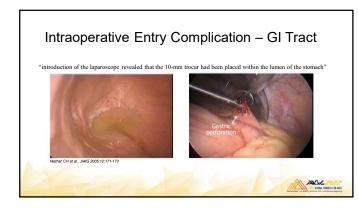
### Intraoperative Complication - GI Tract

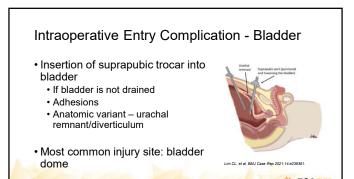
- · Incidence of bowel injury during GYN surgery: 0.13-0.54%
- 37.3-55% of bowel injuries are entry-related
- · Delayed diagnosis:
  - 41% of bowel injuries at GYN laparoscopy
  - Mortality rate = 3.2%

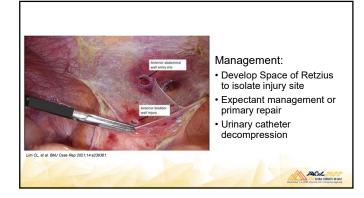


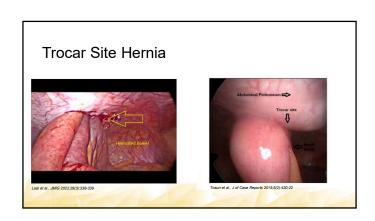


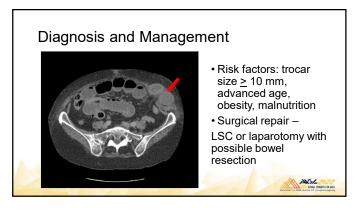
Injury Type Management Superficial sharp, small thermal Primary oversewing, 3-0 delayed absorbable Primary interrupted, 2-0 or 3-0 delayed absorbable Two-layer closure, with or without closed-suction drain placement Primary repair or resection and re-anastomosis, with or without closed-suction drain placement Resection and re-anastomosis, plus or minus diverting proximal ostomy, plus closed-suction drain placement Full-thickness, more than 1 cm Large, delayed, necrotic, grossly infected, complicated

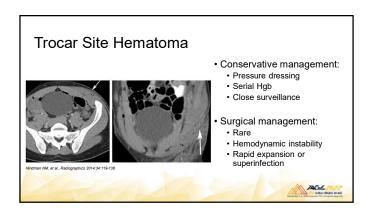












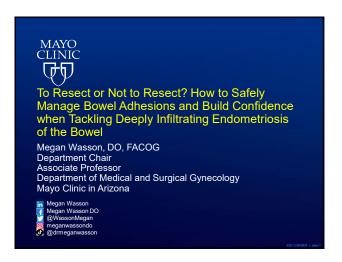
### Key Lessons

- Preoperative planning and preparation is paramount
- Rely on fundamentals and knowledge of anatomy to navigate challenging surgical scenarios
- Stay vigilant and anticipate the worst case scenario













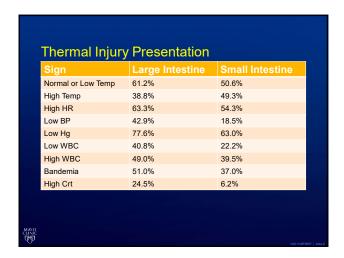


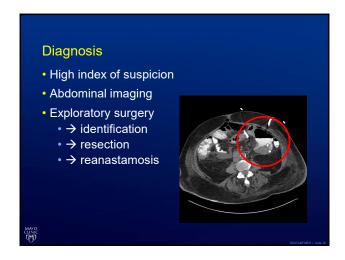
# Gastrointestinal Injury during Laparoscopy • 0.03-0.18% • Small bowel most common • High morbidity and mortality





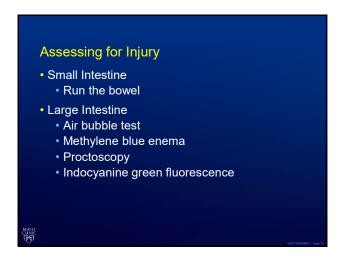


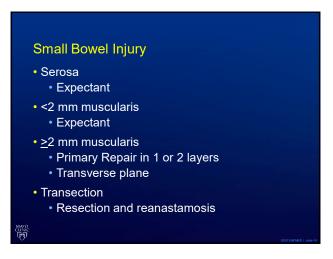






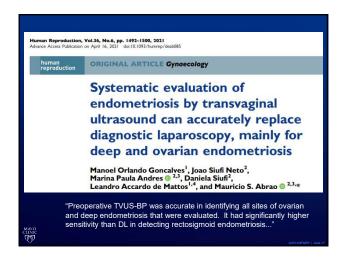


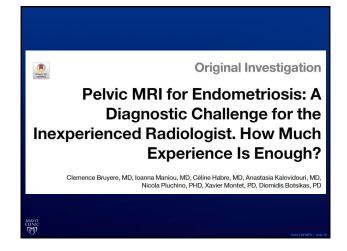


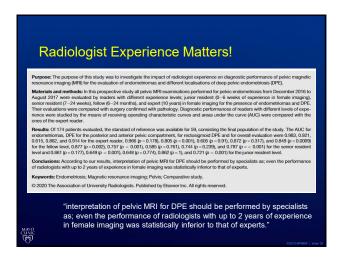


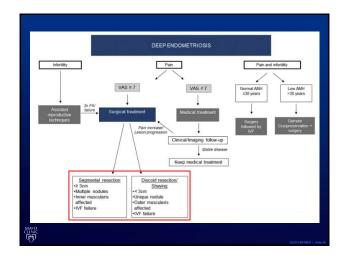


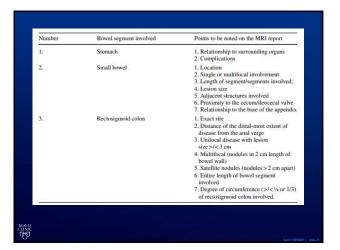




























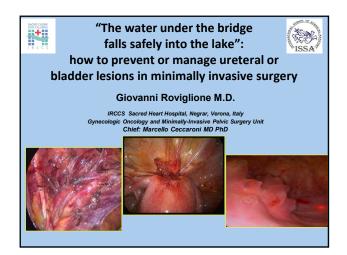


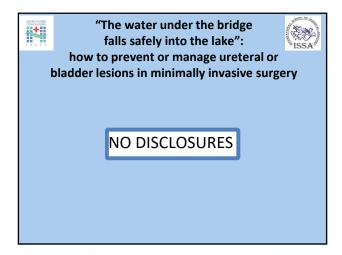


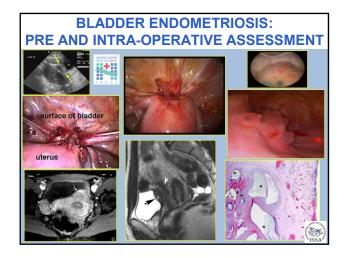
## References Baggish MS. One hyndred and thirty small and large bowel injuries associated with gynecologic laparoscopic operations. J Gynecol Surg. 2007;23:83-95. Bruyere C, Maniou I, Habre C, et al. Pelvic MRI for Endometriosis: A Diagnostic Challenge for the Inexperienced Radiologist. How Much Experience is Enough? Acad Radiol. 2021;28(3):345-53. Champsy D, King C, Lee T. The use of barbed suture for bladder and bowel repair. J Minim Invasive Gynecol. 2015;22(4):648-52. Jaramillo-Cardoso A, Shenoy-Bhangle AS, VanBuren WM, et al. Imaging of gastrointestinal endometriosis: what the radiologist should know. Abdom Radiol (NY). 2020;45(6):1694-1710. Kho RM, Andres MP, Borrelli GM, et al. Surgical treatment of differet types of endometriosis: Comparison of major society guidelines and preferred clinical algorithms. Best Pract Res Clin Obstet Gynaecol. 2018;51:102-10. Kirby R, Arnold F, et al. Diagnosis and management of bowel injury during laparoscopic surgery. Trends in Urology and Men's Health. 2011;18-20.

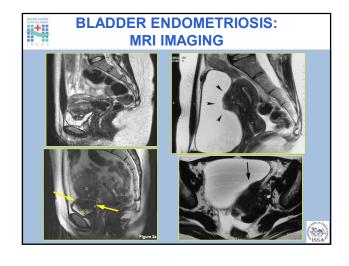


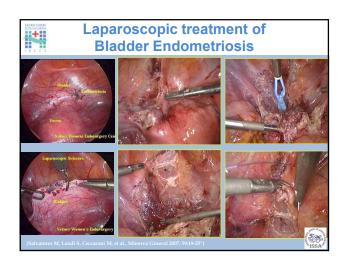


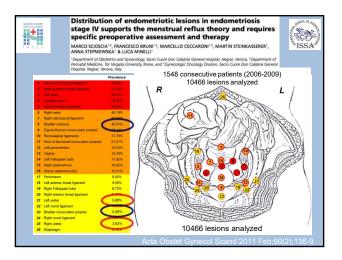


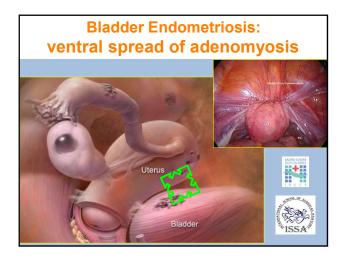


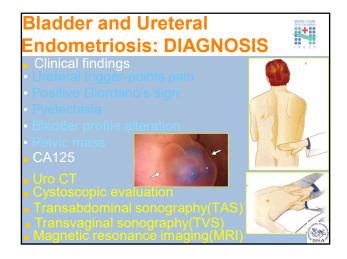


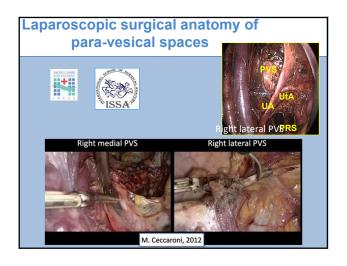


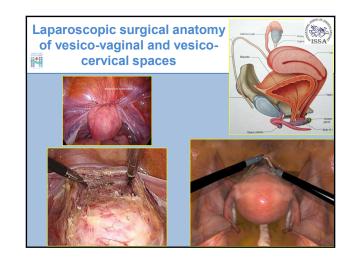


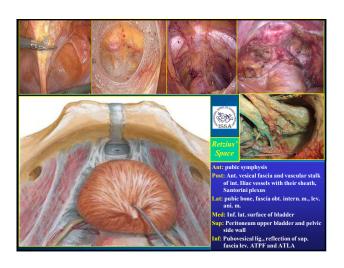


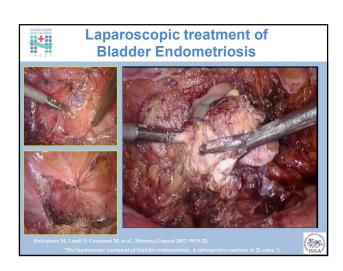


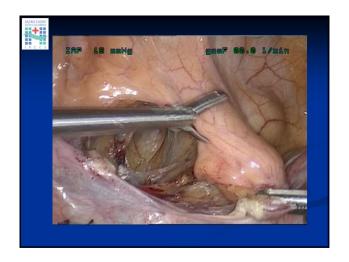


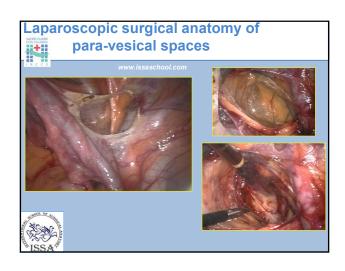




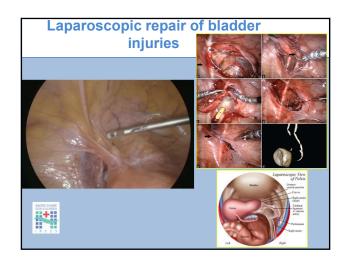


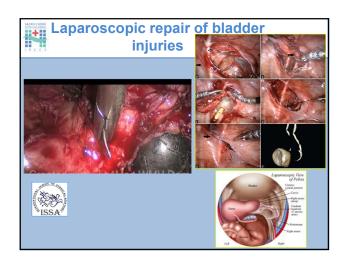


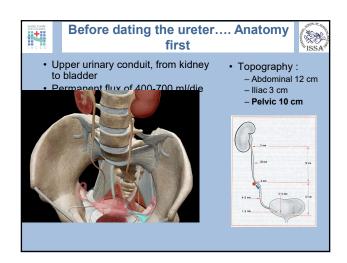


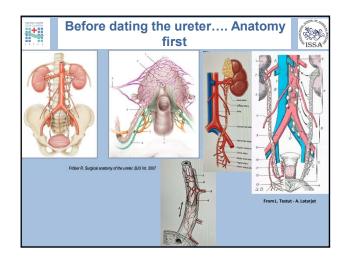


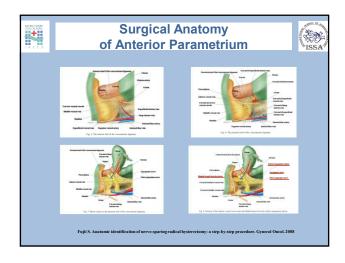


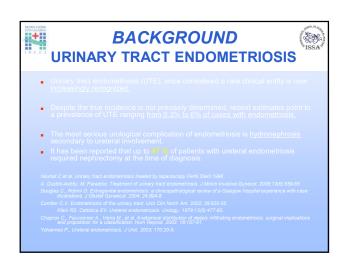




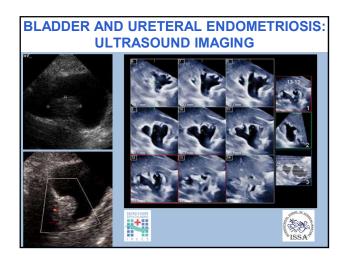


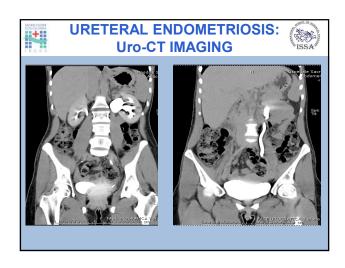


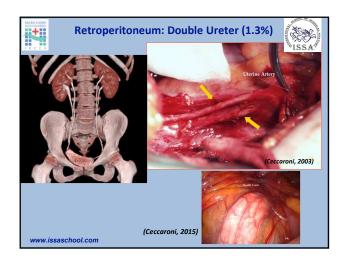


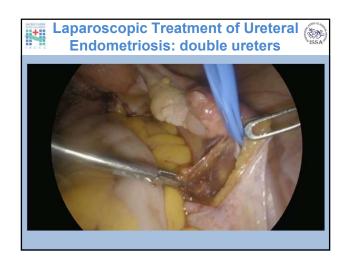


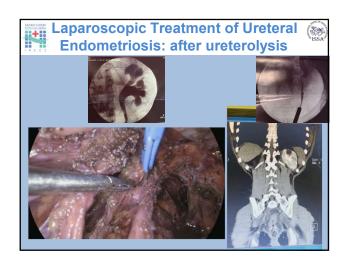


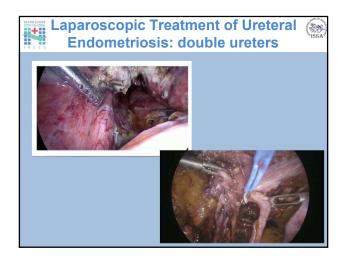


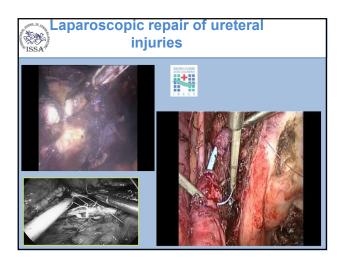


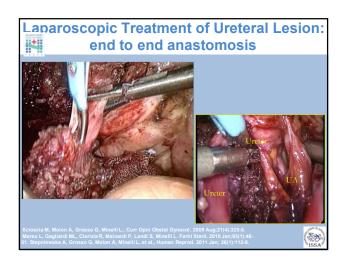


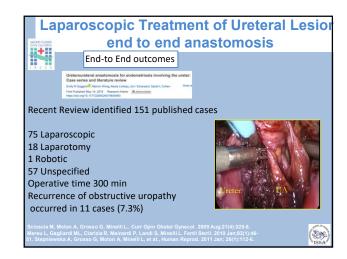


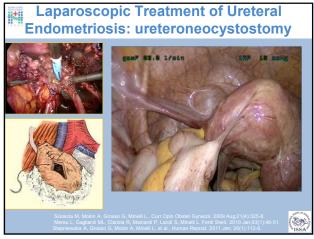


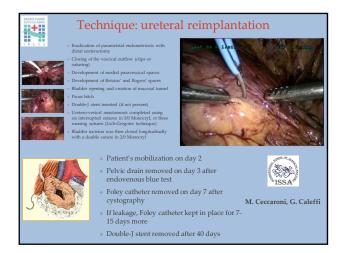


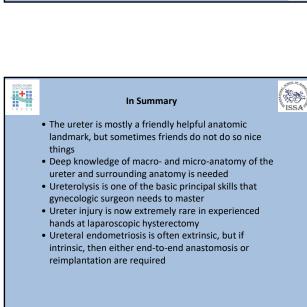




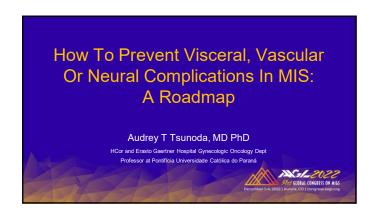








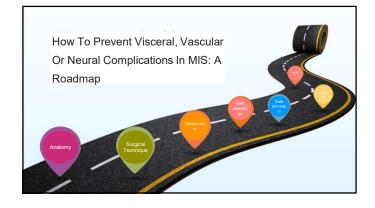


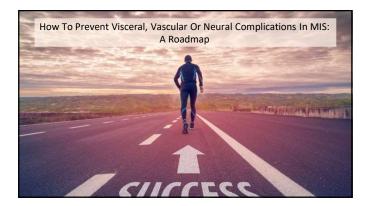




How To Prevent Visceral, Vascular Or Neural Complications In MIS: A Roadmap

- To describe adequate peri-operative management to prevent complications
- To review general complications profile, and the main resources and techniques for a safe pelvic procedure
- To propose a roadmap to guide standardized pelvic approaches and to reduce complications



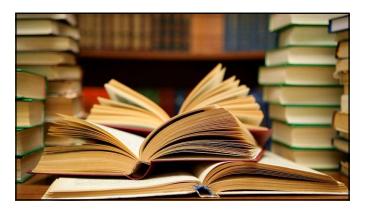


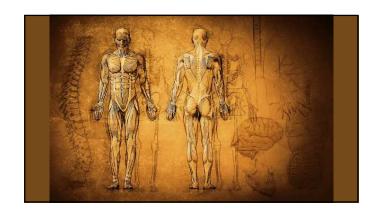
ow To Prevent Visceral, Vascular Or Neural Complications In MIS: A Roadma

### Pre-operatively:

- Review anatomic key elements and surgical technique
- Understand limitations and most common complications
- Organize team and instruments/equipments
- Adequate patient selection
- Understand that laparotomy does not reduce complications





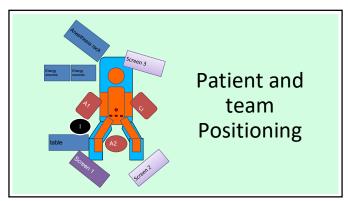










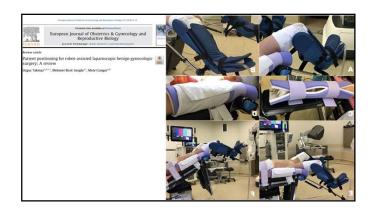


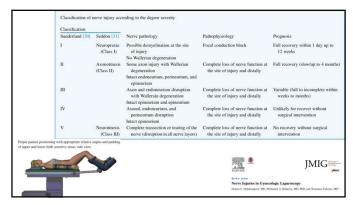










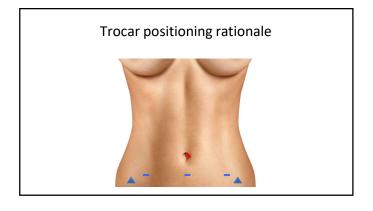


ow To Prevent Visceral, Vascular Or Neural Complications In MIS: A Roadma

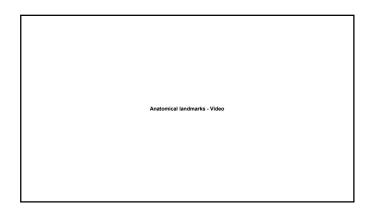
### **During surgery:**

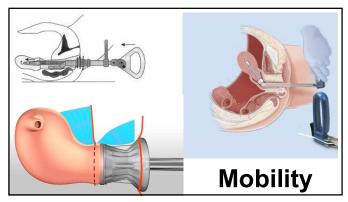
- Adequate ergonomy and use of energy
- Anatomical landmarks identification
- Provide a good uterus mobilization
- When facing a difficult case in the lateral or posterior aspects: pelvic spaces development





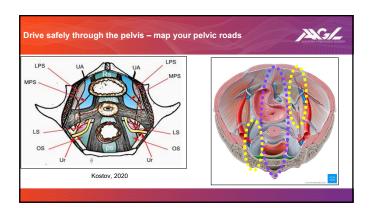




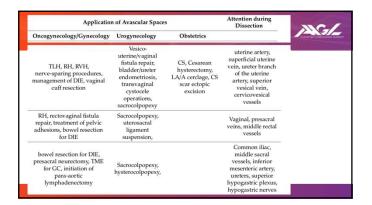


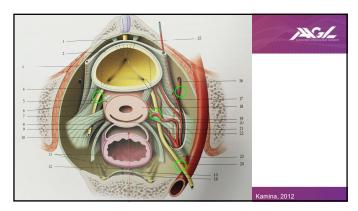


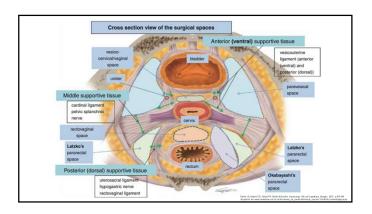
Uterus mobility without manipulator Video

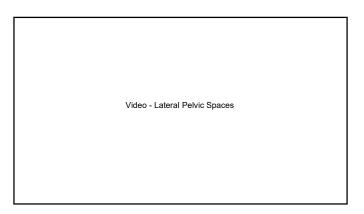


Application of Avascular Spaces			Attention during Dissection
Oncogynecology/Gynecology	Urogynecology	Obstetrics	
Pelvic lymphadenectomy, RH, RVH, SLNB	Burch colposuspension, paravaginal repair	Cesarean hysterectomy, LA/A cerclage	CORM
Anterior exenteration, RH, DE treatment, RVH, SLNB	Ureteric reanastomosis, paravaginal repair	Cesarean hysterectomy, LA/A cerclage	CORM
Pelvic lymphadenectomy, RH, uterine artery ligation, nerve-sparing procedures, RVH, sentinel lymph node biopsy, SLNB	Ureter surgery for DIE or GC	Internal iliac artery ligation	Lateral sacral/hemorrhoidal vessels, pelvic splanchnic nerves
Nerve-sparing procedures, RH, LUNA procedure, bowel resection for DIE or GC, RVH, SLNB	Ureter surgery for DIE or GC		Middle rectal vessels, PP, hypogastric nerves
Nerve-sparing procedures during DIE or GC	Ureter surgery for DIE or GC		Vesico-uterine ligament vessels
Anterior exenteration, pelvic anterior peritonectomy, bladder endometriosis	MESH removals, ureteric re- implantation, retropubic TVT, anterior vaginal compartment repairs, Burch colposuspension, MMK procedure		Veins of Santorini, Dorsal vein of clitoris



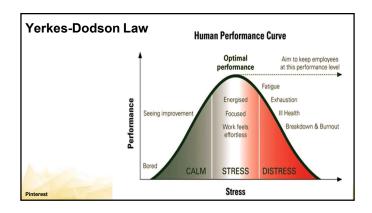






ow To Prevent Visceral, Vascular Or Neural Complications In MIS: A Roadma

- Yerkes-Dodson Law and PERFORMANCE
- COMPLICATIONS are more frequent than we would expect
- Most COMPLICATIONS are related to simple steps and regular procedures
- COMPLICATIONS should be adequately prevented, detected and promptly managed



Variable	Conventional laparoscopical surgery	Robotic-assisted laparoscopical surgery		
Overall (intra- and postoperative period)	0.5–13%	3.2–18.4%		
Intraoperative	1.9%	3.2%		
Vascular injury	0-1.7%	0-1.7%		
Intestinal injury	0.13-0.5%	0.6-2.8%		
Urinary tract	0.5-1.7%	1.2-3.5%		
Postoperative	13–34%	18.4%		
Clavien-Dindo grade 0-2	9%	13.2%		
Clavien-Dindo grade 3-4	4%	5.2%		
Vaginal cuff dehiscence	0.6-1.3%	1.6%		
Port-site metastasis	1.0-1.2%	1.4–1.9%		

Procedure type	Procedures (n)	Deaths (n)	Deaths, % (95% CI)	Deaths, odds (95% CI)			
All MIS procedures	39 183	77	0.26 (0.21-0.33)	1:381(1:306-1:424)			
Any hysterectomy	38 619	77	0.26 (0.21-0.33)	1:379 (1:304-1:472)			
Radical hysterectomy	3369	10	0.05 (0.01-0.28)	1:2049 (1:356-1:11.832)			
Hysterectomy + lymph nodes	3501	.11	0.51 (0.29-0.91)	1:195 (1:109-1:349)			
Ovarian cancer	418	0	0.15 (0.01-2.29)	1:685 (1:44-1:10:971)			
Conventional laparoscopy:							
All laparoscopic procedures	9365	13	0.35 (0.21-0.57)	1:289 (1:175-1:476)	Thermal effects depending on ESD	994	
Any Instructions	8842	13	0.36 (0.21-0.59)	1:281(1:169-1:469)	Energy modulity (ESD type)	Working temperature range (°C)	Thermal spread within tissue [mm]
Radical bysterectory	2442	0	0.05 (0.01-0.4)	1:1842 (1:247-1:13.771)	Monopolar	100-400	2-22
					Dipolar (convenional)	80-120	2.6
Hysterectomy + lymph nodes	1334	0	0.05 (0-1.5%)	1:2217 (1:63-1:79-448)	Hipolar (advasced)	10-100	1-7
RALS:					Ultracesia	60-300	14
All robotic procedures	27 971	54	0.21 (0.16-0.27)	1:476 (1:365-1:619)	Hybrid (hipsdar-strammic)	100-220	3-3
Robotic hysterectomy	27 930	54	0.21 (0.16-0.27)	1:476 (1:365-1:620)			Omnica among and
Radical hysterectomy	927	0	0.07 (0-1.06)	1:1496 (1:94-1:23:933)	ESD - energy-based surgical device		
Surgery (CLS + RALS) for besign	indications:						
All MIS procedures	124 216	15	0.02 (0.01-0.03)	1:6456 (1:3946-1:10:562)			
MIS bysterectomy	119 721	15	0.01 (0.01-0.02)	1:6814(1:4119-1:11:275)			
Laparoscopic hysterrenous	114 750	15	0.01 (0.01-0.02)	1:6799 (1:4109-1:11249)			
All robot procedures	5458	0	0.02 (0-1.45)	1:5430 (1:69-1:435 052)			
All laparescopy procedures	118 758	15	0.02 (0.01-0.03)	1:6512 (1:3971-1:10 680)		defections, c	i in Significacions and robotic assisted surgery assifications, incidence and risk factors
Sacrocolpopexy (MIS)	864	0	0.08 (0-2.8)	1:1246 (1:36-1:44 700)		- se up to de	de review
Sacrocolpopexy (Iaparoscopy)	757	0	0.07 (0-5.65)	1:1343 (1:18-1:107.855)			Page State Committee Commi
Adversal surgery	1960	0	0.04 (0-2.2)	1:2245 (1:45-1:113 372)			

 Anatomical complications of hysterectomy: A review

Rebecca C Ramchan 1 2, Marios Loukas, R Shane Tubbs 1 2

GU tract injuries 1-2% (5,000 cases/year in the USA)

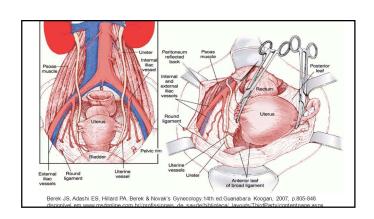
0.3-1.2% open

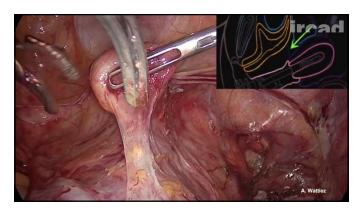
0.2-8% laparoscopy

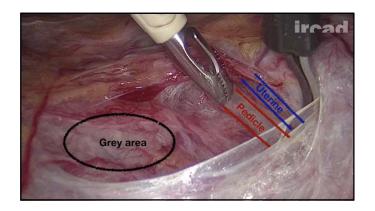
0.7-4% vaginal

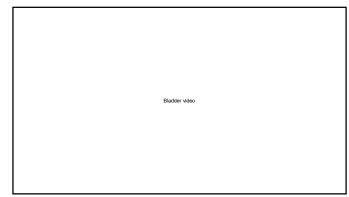
Bladder - most frequent, mainly during vesico-vaginal space development

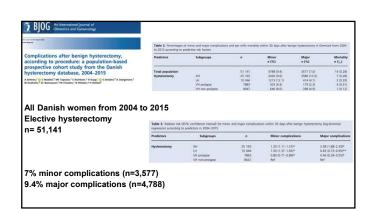
Ureter (66% are not detected during the procedure)

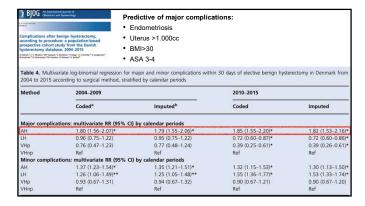


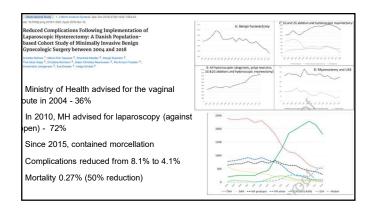


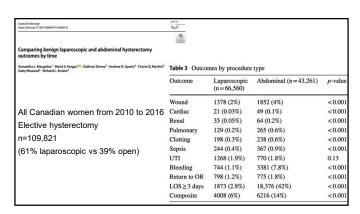


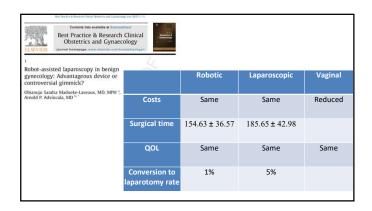






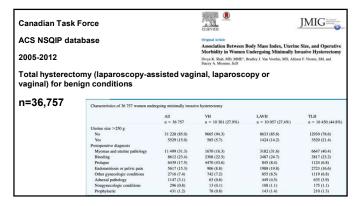


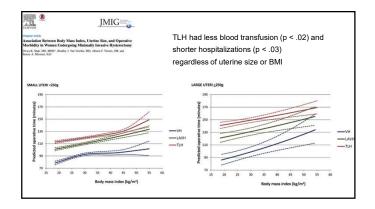


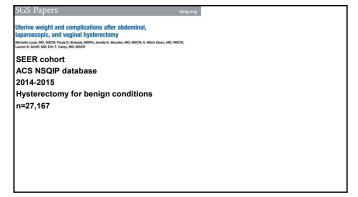


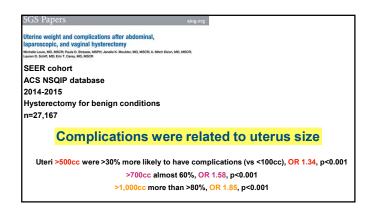


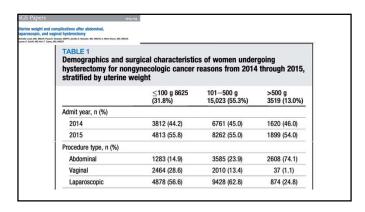


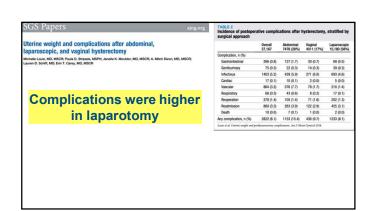


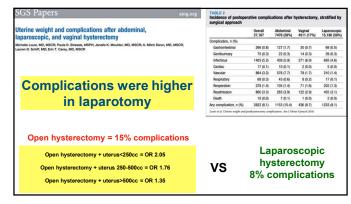


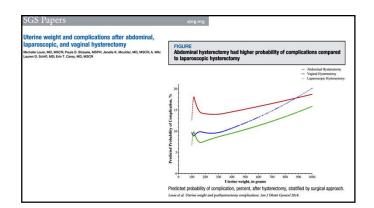


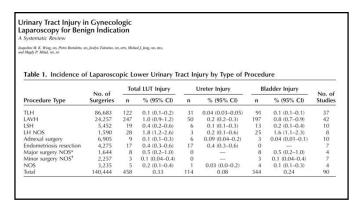


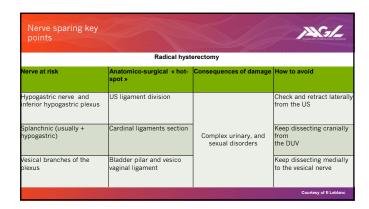




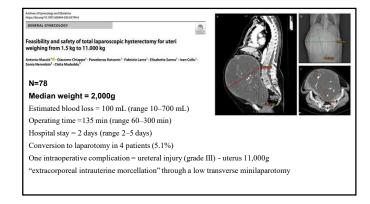


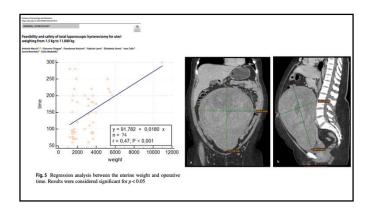




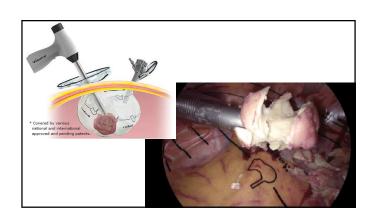








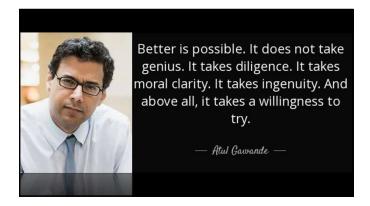




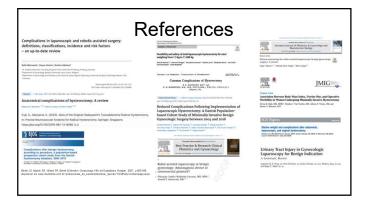


### How To Prevent Visceral, Vascular Or Neural Complications In MIS: A Roadmap

- Adequate perioperative management, including anatomical landmarks identification (and not necessarily dissection!) is a must!
- Main complications are mostly related to simple procedures and/or steps, and basic resources and reproducible surgical techniques may prevent them
- Standardized pelvic approaches may positively impact surgical results (i.e. pelvic spaces development, adequate exposure, save approach to important structures)









### 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/