# 5/st GLOBAL CONGRESS ON MIGS

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

### SYLLABUS

Panel 2: Vaginal Laser /
Photobiomodulation Therapy: Examining
the Evidence and Controversy

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Asterisk (\*) denotes no financial relationships to disclose.

### **PLANNER DISCLOSURE**

The following members of AAGL have been involved in the educational planning and/or review of this course (listed in alphabetical order by last name).

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Amy J. Park, MD Speaker: Allergan

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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).

Charles W. Butrick, MD - Uroshape LLC - Director of Professional Education, unpaid position and Stock

ownership; Axonics, Inc. - Consultant

Georgine Lamvu, MD, MPH AbbVie; SoLa Pelvic

Therapy

Eric R. Sokol, MD\*

### PANEL 2: Vaginal Laser / Photobiomodulation Therapy: Examining the Evidence and Controversy

Chair: Georgine Lamvu, MD, MPH

Faculty: Charles W. Butrick, MD, Eric R. Sokol, MD

### **Course Description**

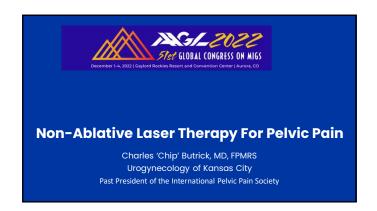
This learning activity will review the evidence and controversy surrounding the use of vaginal lasers / photobiomodulation for vaginal atrophy, pain, incontinence, and prolapse. It will provide an overview of how lasers work, as well as indications and contraindications for use. The lecture will focus on evidence-based recommendations and factors that clinicians need to consider before integrating laser technology into their clinical practice.

### **Learning Objectives**

At the conclusion of this course, the participant will be able to: 1) Describe the biomechanics and biological effects of laser therapy; 2) Recognize the gynecologic conditions that may benefit from vaginal laser therapy; and 3) List the main benefits and risks of vaginal laser therapy.

### **Course Outline**

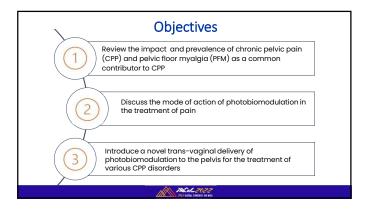
2:00 pm	Welcome, Introduction and Course Overview	G. Lamvu
2:05 pm	What is a Laser and What are the Biological Effects of Laser Therapy?	G. Lamvu
2:20 pm	Non-Ablative Laser Therapy for Pelvic Pain	C. Butrick
2:35 pm	Should Vaginal Lasers be Used for Genitourinary Symptoms of Menopause?	E.R. Sokol
2:50 pm	Questions & Answers	All Faculty
3:05 pm	Adjourn	

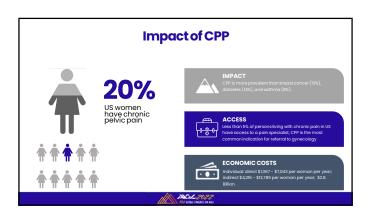


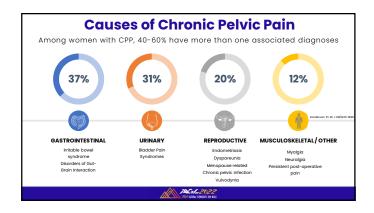
## Disclosures Director of Professional Education; Uroshape LLC • maker of device used for the treatment of pelvic pain Consultant: Axonics, Inc.

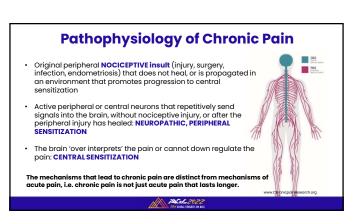
· maker of sacral neuromodulation system

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### Pelvic Floor Hypertonicity A Component of Chronic Pelvic

- 85% of all patients evaluated with pelvic floor disorders have pelvic floor myalgia<sup>1</sup>
- 80% of patients with CPP have central sensitization; the majority will also have pelvic floor myalgia and hypertonicity<sup>2</sup>
- $\,$  50-87% of patients with IC/BPS have pelvic floor pain and dysfunction (5-6.8% of all
- 87% of women with endometriosis and pain have central sensitization and pelvic floor
- 80-90% of women with vulvar pain have pelvic floor myalgia
- 24% of women with incontinence or prolapse have pelvic floor pain or hypertonic dysfunction<sup>4</sup>

### Myofascial PT for Chronic Pelvic Pain

Summary of the evidence

- Fitzgerald MP, 2009, Randomized multicenter trial<sup>1</sup>, n=48 women with IC/PBS
- Pelvic myofascial PT vs. global massage therapy; improved 59% vs. 26%
   Global pain and O'Leary Sant reduced by 36%
- · 62% with adverse events (most involved pain)
- Poor follow-up allowed no determination of duration of benefit

### Outcome is highly dependent on access and physical therapist skill

- van Reijin-Baggen DA<sup>3</sup>, 2022, systematic review

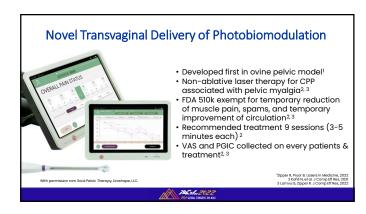
  - 10 studies (5 RCTs, 5 prospective studies)
     PT efficacious in patients with chronic pelvic pain, vulvodynia, and dyspareunia. Smaller effect in patients with IC/BPS

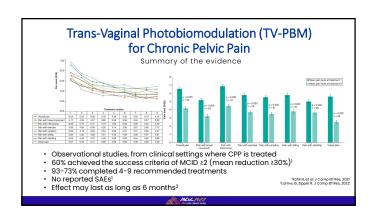
  - · Studies of poor methodologic quality

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### **Photobiomodulation (PBM)** Non-ablative Therapeutic Laser • Indicated for acute and chronic A MECHANISM OF LASER THERAPY IN TISSUE pain Multiple RCTS showing benefit for myofascial pain Over 1000 laboratory studies describe the effects of PBM on living tissue IASP recommends PBM as first line therapy for Myofascial Pain in 2010 Only FDA cleared device to treat myofascial pain and spasm Response typically last 6-12 months after therapy in other MF pain disorders







### **GL1** Where did this image come from?

Georgine Lamvu, 8/9/2022

### **GL2** We need references for at least some of these comments

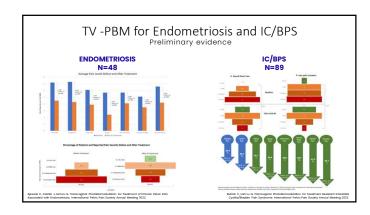
Georgine Lamvu, 8/9/2022

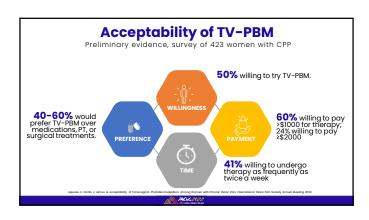
### MOU1 I think this is Hamblin et al, modified.

Microsoft Office User, 8/9/2022

### **MOU2** You may want to use the image from our science page of our provider website..which is our image and more detailed.

Microsoft Office User, 8/9/2022







### KEY POINT #1

Pelvic myalgia is a major pain generator for almost every patient with chronic pelvic pain

### KEY POINT #2

Physical therapy, while certainly considered the gold standard, is limited by availability, access, tolerability, length of therapy, reproducibility, and lack of data on duration of pain relief.

Non-ablative laser therapy, photobiomodulation (PBM), is well studied and effective for tissue inflammation, wound healing, and reduction in pain. Transvaginal PBM is novel and may be effective for multiple causes of pelvic pain; preliminary data is promising.

### 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/