

## "Practical Imaging in Endometriosis and Adenomyosis: A Comprehensive Guide to MRI and Ultrasound Techniques, Lab Demonstrations, and Live Sessions"

### Topic Category

- Endometriosis and Adenomyosis Imaging
- Reproductive Medicine
- Gynecology
- Radiology
- Imaging
- Ultrasound

### Audience

- Radiologists
- Gynecologists
- Reproductive Endocrinologists
- Residents and Fellows in Radiology and Gynecology
- Advanced Practice Providers (APP) in Radiology and Gynecology
- Interprofessional (example: physicians and APP in both Radiology and Gynecology)
- International audience

### Physician Attributes

- Patient-centered care
- Medical knowledge
- Practice-based learning and improvement: applied in an individual physician's own practice
- Interdisciplinary teams working together to ensure patient care is continuous and reliable
- Employ evidence-based practice
- Apply quality improvement
- Interpersonal Skills and Communication

### Level

Intermediate

### Course Description

A comprehensive course for healthcare providers involved in the diagnosis and treatment of endometriosis and adenomyosis, emphasizing practical aspects of MRI and ultrasound techniques. The course will include case-based discussions, lab demonstrations, and live ultrasound sessions.

### Objectives:

After completion, participants will be able to:

**Diagnose:** Understand and identify the imaging characteristics of endometriosis and adenomyosis through MRI and ultrasound.

**Operate:** Gain hands-on experience in ultrasound techniques, including endometriosis mapping.

**Interpret:** Acquire the skills needed to read and interpret MRI and ultrasound reports for endometriosis and adenomyosis.

**Key Takeaways**

Attendees will return to their practices equipped with robust imaging skills, covering both MRI and ultrasound techniques. This will enable precise diagnosis and treatment planning, resulting in improved patient outcomes.

**Course Learning Objectives**

- Understand the fundamentals and advanced applications of MRI and ultrasound in diagnosing endometriosis and adenomyosis.
- Accurately interpret MRI and ultrasound images, focusing on identifying endometriomas and adenomyosis.
- Gain practical experience in endometriosis mapping via ultrasound.
- Develop strategies for setting up imaging capabilities in practice, including quality control.

**Course Format**

- Audience Interactive
- Case-Based
- Didactic
- Panel Discussion
- Lab Demonstrations
- Live Ultrasound Sessions

**Additional Information**

The faculty comprises nationally and internationally recognized leaders in the fields of Radiology and Gynecology.

**Professional Practice Gaps and Educational Needs**

This course targets the gap in practical knowledge of MRI and ultrasound techniques for endometriosis and adenomyosis. Despite the increasing use of these imaging modalities, there is a lack of comprehensive training focused on these conditions. The course aims to bridge this gap by providing healthcare providers with the necessary skills and knowledge, ensuring accurate diagnosis and subsequently, better patient outcomes.

**Reason for these gaps**

Traditionally, the focus has been on surgical and symptomatic management of endometriosis and adenomyosis. However, imaging is a crucial aspect that requires specialized knowledge and practice. This course aims to fill the educational void by focusing on the practical aspects of imaging in these conditions.

**Faculty**

Course Directors : Mauricio Abrao MD. , Andrea Vidali MD

## **Course Introduction**

1. "Welcome and Overview: The Critical Role of Imaging in Endometriosis and Adenomyosis"
2. Why clinicians have fallen behind: generalists and specialists have not caught up with imaging advances.

## **Module 1: Ultrasound**

1. Ultrasound Anatomy of the pelvis applied to endometriosis
2. What is Endometriosis Mapping?
3. Ultrasound Imaging in Endometriosis : Fundamentals
4. Ultrasound Imaging in Adenomyosis : Fundamentals
5. Advanced Ultrasound Techniques for Enhanced Diagnosis
6. Comparative Analysis: Ultrasound VS MRI

## **Module 2: MRI**

1. Essential MRI Protocols for Accurate Diagnosis
2. Recognizing Endometriomas: An MRI Approach
3. MRI for Adenomyosis: What Every Practitioner Should Know
4. Intestinal endometriosis : An MRI approach

## **Module 3: Comprehensive Care and Treatment Planning**

1. Using Imaging for Pre-Operative Planning in Endometriosis and Adenomyosis
2. Intraoperative Ultrasound : a practical guide
3. Imaging Follow-up: Monitoring Treatment Efficacy and Progression
4. An commentary on Reproductive medicine and IVF

## **Module 3: Setting up Imaging in Your Practice**

1. Implementing Endometriosis and Adenomyosis Mapping: A Practical Guide for your clinical practice
2. How I did it : A Center's Experience

## **Workshops**

1. Hands-On Workshop: Practical Endometriosis and Adenomyosis Mapping with Live Demonstrations
2. Interactive MRI Reading Session: Real Cases, Real Learning

## **Closing Lecture**

"Emerging Technologies and Future Directions in Imaging for Endometriosis and Adenomyosis"