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# Stepwise diagnosis of endometriosis and Adenomyosis by ultrasound for the beginners



**Dr. Archana Baser**  
MS, DNB, FRCOG, FICOG  
Director,  
Akash Hospital Indore

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# DR. ARCHANA BASER

M.S., D.N.B., F.R.C.O.G., F.I.C.O.G

Consultant, Obstetrician and Gynecologist,  
Director at Akash Hospital Indore.

FOGSI Presidential candidate election year 2026



Vice President,  
FOGSI 2020

## Present Positions

Chairperson MP  
ISAR 25-27

Fellow Representative  
AICC RCOG West Zone

Joint secretary  
ISPAT 25-27

Organising secretary,  
AICOG 2021 Indore



Guinness World  
Record Holder

## Past Positions

Chairperson, FOGSI  
Imaging Science  
Committee 2015-2017

Organising secretary,  
ISAR 2016

Managing Committee  
Member: ISAR 2018-20,  
IAGE 2018-19 & ICOG  
2017-21

Imaging science  
Member AOFOG

Imaging Science  
Committee Chair,  
SAFOG 2020-2023

# Endometriosis is a Costly Chronic Disease



A woman with long dark hair is lying on her side on a bed with white sheets. She is wearing a white tank top and light blue denim shorts. She is clutching her abdomen with both hands, suggesting pain or discomfort. Her eyes are closed, and she has a pained expression. The background is a simple, light-colored wall.

**NEARLY 10% OF WOMEN OF  
REPRODUCTIVE AGE GROUP  
SUFFER FROM ENDOMETRIOSIS**

# Facts and figures of Endometriosis

One in 10 women have endometriosis

It takes an average of seven years for most women to get diagnosed

Endometriosis can often be confused with or misdiagnosed as IBS

Endometriosis is the second most common gynaecological condition (after fibroids )

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# Overview -

Definition of endometriosis and adenomyosis

- Ultrasound appearances of endometriosis within the pelvis
  - How to assess for pelvic mobility
  - What to look for during an 'endometriosis' scan
-

# Definition of endometriosis

The presence of endometrial – like tissue (glands and stroma) outside the uterus which induces a chronic inflammatory reaction

Endometriosis typically manifests itself in three ways

Endometriomas, adhesions and endometriotic nodules (deep or superficial)

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# Diagnostic modalities

Clinical

Ultrasound ,contrast Ultrasound

MRI / CT

Endoscopy , laparoscopy , sigmoidoscopy

Biochemical screening

Histopathology definitive diagnosis

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# Ultrasound

Most preferred modality for assessment of pelvic pathology

Routes:

1. Transvaginal (Route of choice)
  2. Transabdominal
  3. Transrectal
-

# Ultrasound

Widely available, cost effective

Ultrasound scan can pick up Ovarian - Lesions -  
Endometrioma

DIE -deep invasive endometriosis

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# Scanning Technique

Scanning should ideally begin with survey of whole abdomen with 3.5 MHz probe

Follow it with TVS ask partially full bladder so bladder wall can be evaluated

Grey scale imaging can be improved by using HI ,CRI with this even subtle textural changes associated with endometriosis can be appreciated

3D volume ultrasound may be used to assess the multi organ involvement and adhesions .

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# Surgical Staging of endometriosis

- Stage 1: **minimal disease** is characterised by isolated implants and no significant adhesions.
  - Stage 2: **mild disease**, superficial implants that are less than 5cm in total aggregates and scattered over the peritoneum or the ovary.
  - Stage 3: **moderate disease**, multiple implants, both superficial and deep +/- presence of adhesions around the tubes or ovaries
  - Stage 4: **severe disease**, multiple superficial and deep implants including large ovarian endometrioma, dense bowel/bladder/ureteric adhesions
-

Stage I, minimal



Stage II, mild



Stage III, moderate



Stage IV, severe



# Simplified staging on ultrasound

- For the purpose of this lecture I will be describing how to identify structures involved by endometriosis and showing corresponding laparoscopic images to improve correlation.
  - These can then be staged by any classification system you are comfortable with.
  - So let us go step by step.
-

# Structures involved in endometriosis

- Ovaries
  - Uterosacral ligaments and POD
  - Bowel
  - Rectum
  - Bladder
  - Uterus
-

# Ovarian Endometrioma

Endometriomas are probably the most commonly diagnosed form of endometriosis because of relative ease and accuracy of ultrasound diagnosis

Although their exact prevalence and incidence are not known they have been reported in 17-44% of women with endometriosis

The presence of ovarian endometriosis has been reported as a marker for Deep Endometriosis and Multifocal deep vaginal intestinal and ureteric lesion

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# Ovarian endometrioma

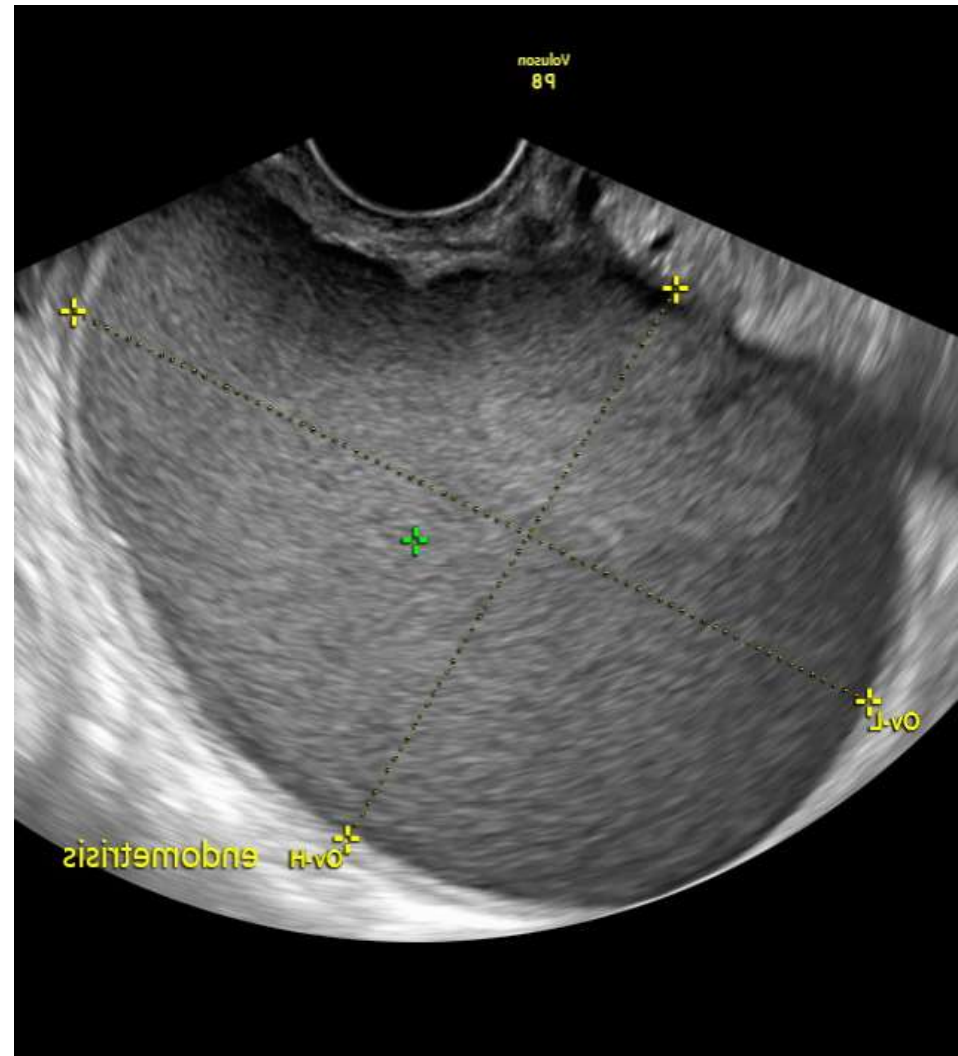
Endometriomas are common, can mimic other adnexal masses

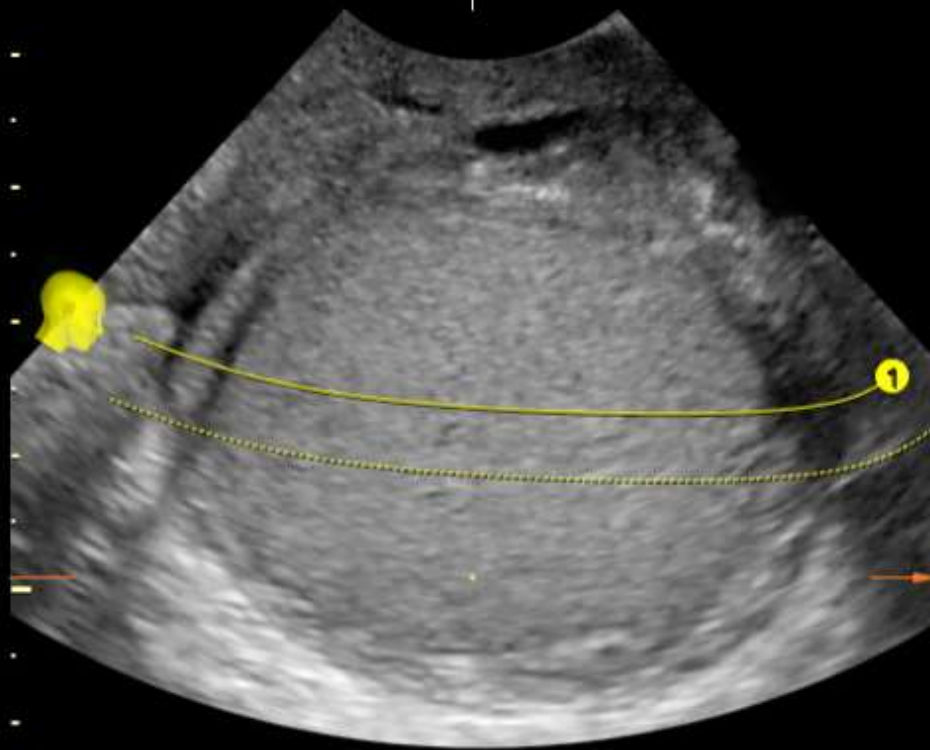
- Endometriomas result from cyclic haemorrhage
  - The walls are thick and fibrotic
  - The contents consist of thick, dark degenerate blood product also known as a 'chocolate cyst'
  - If unilateral more likely to occur within the left ovary
  - Are bilateral in approximately 50% of cases
  - Usually regress substantially after menopause
-

## Typical features of endometrioma

Fluid level, the hyperechoic layer will be the dependent portion of the cyst

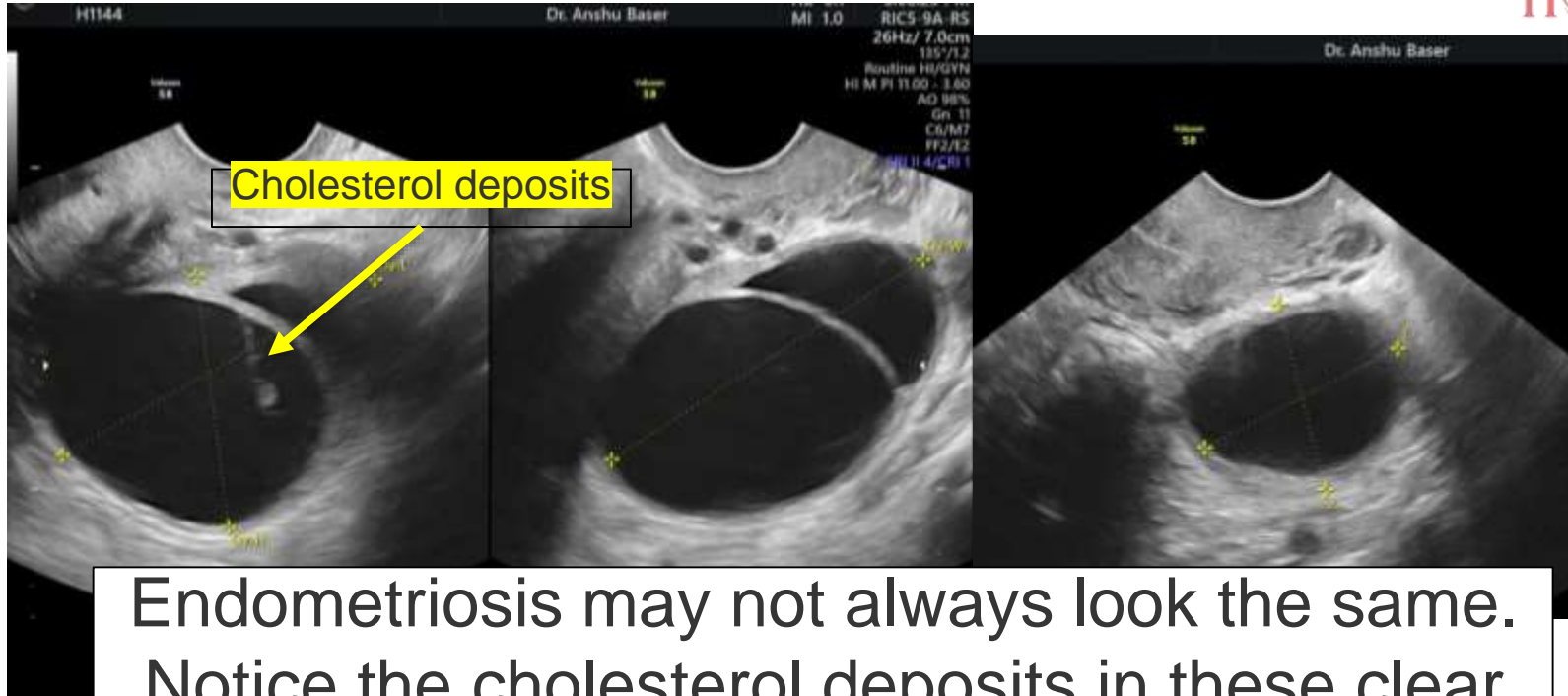
- Can have calcified foci within the cyst (acoustic shadowing)
- Typically avascular or low flow
- 'Acoustic streaming' can help discriminate from mucinous/ serous cystadenomas





Ovarian  
Endometrioma





Endometriosis may not always look the same.  
Notice the cholesterol deposits in these clear  
looking cyst

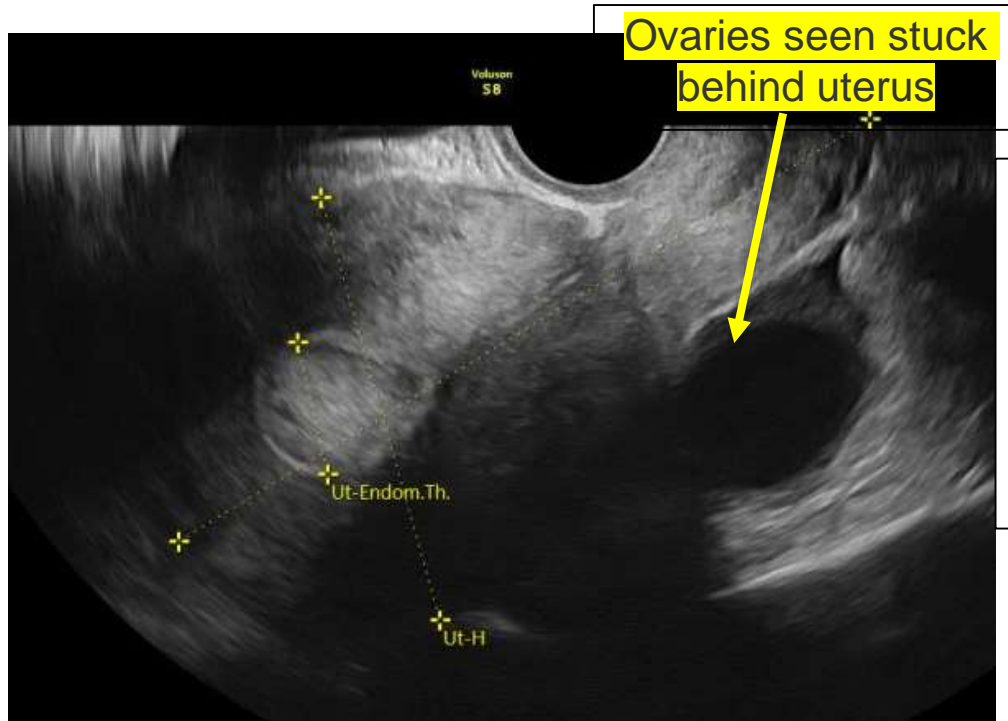
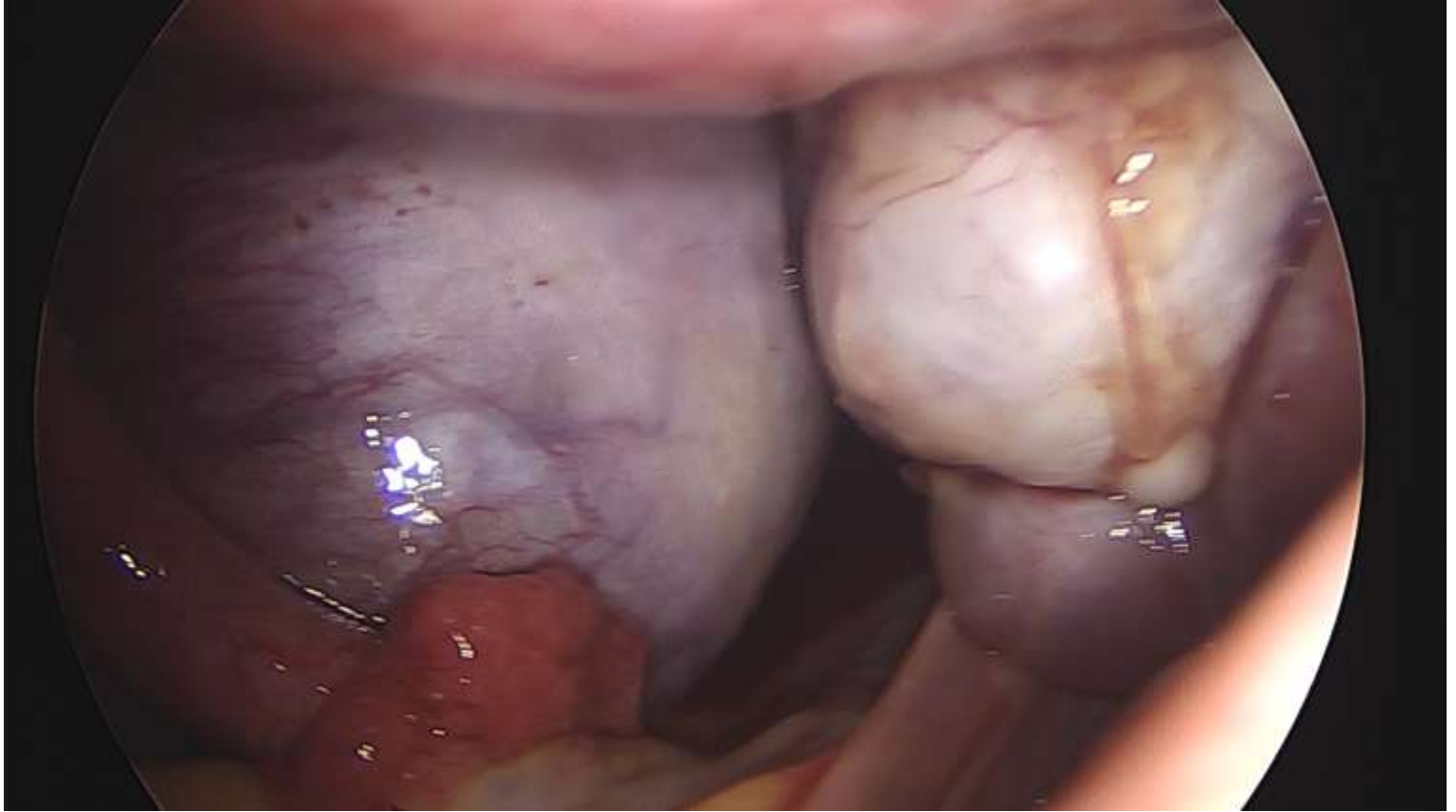


Image of the same patient showing the ovaries stuck behind the uterus



Laparoscopic view of the same patient



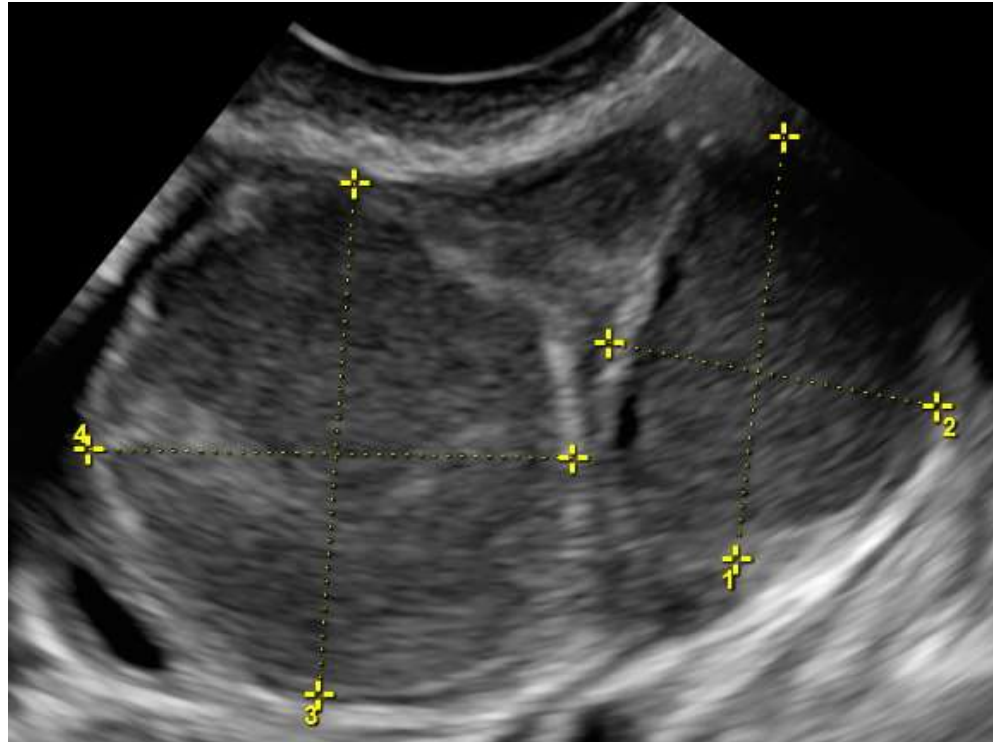


Multiple ovarian  
endometriomas in  
same ovary

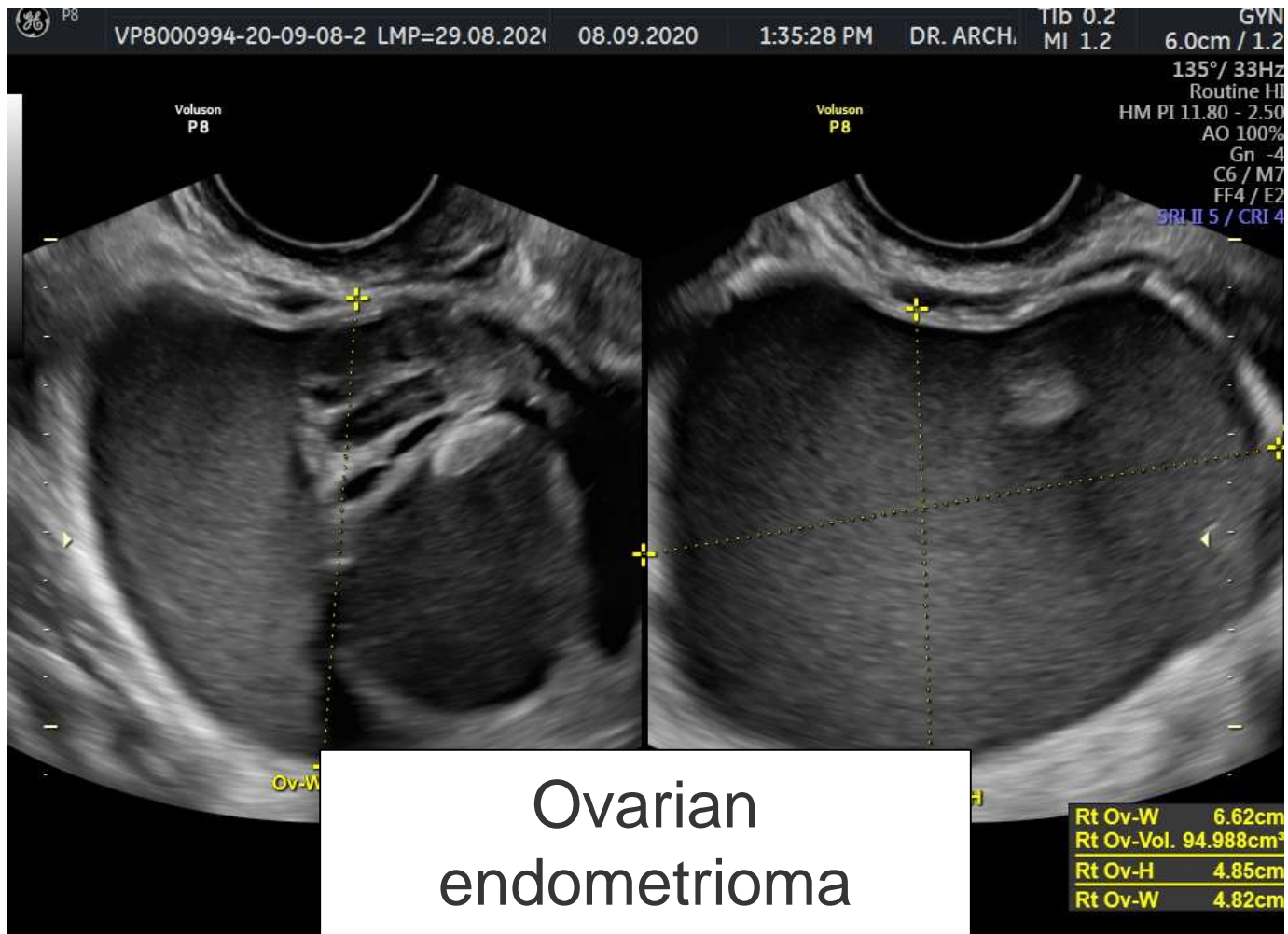


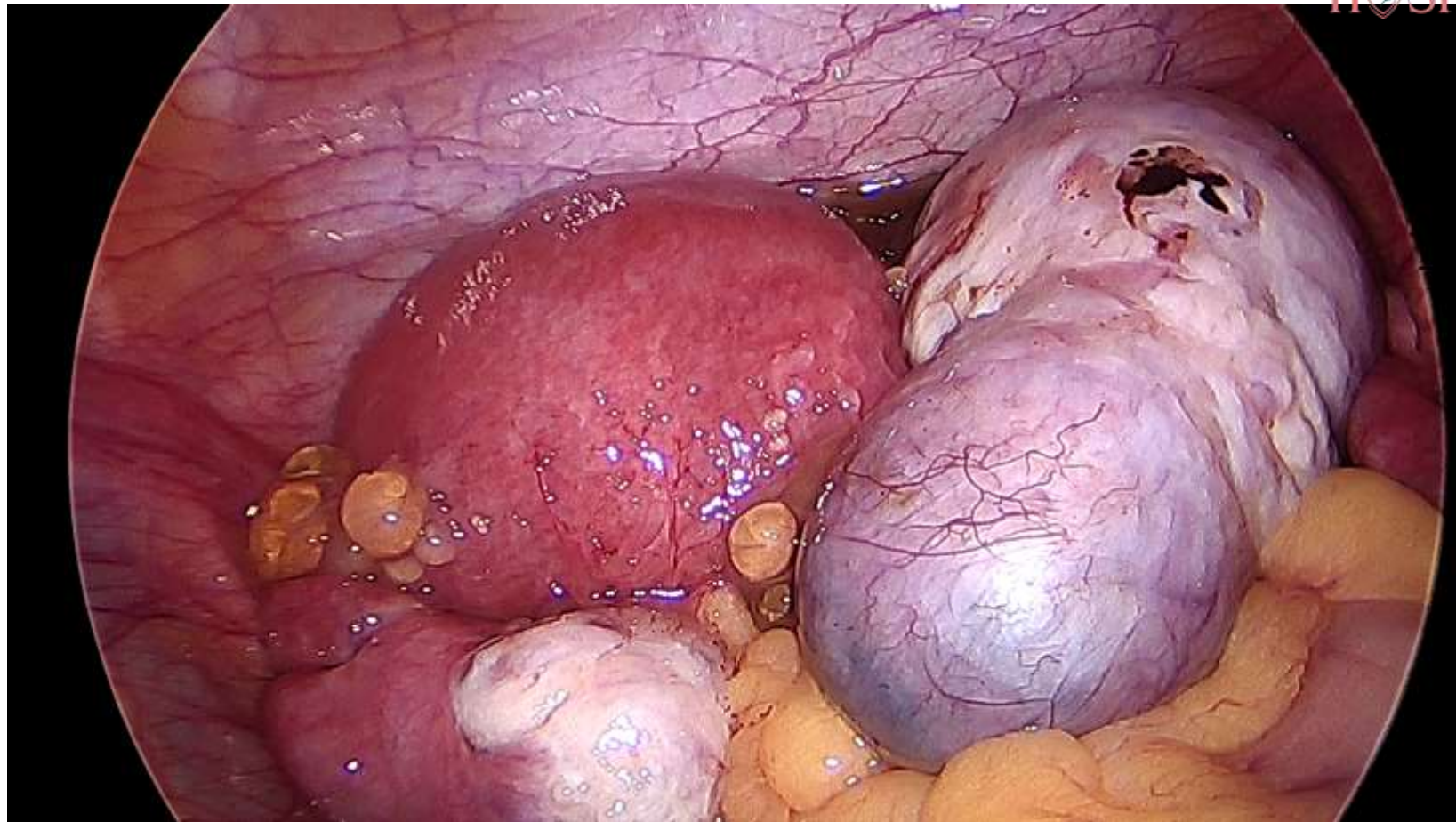
A clip showing multiple endometriomas in the same ovary. It is important this assessment be made prior to surgery in order to avoid residual endometriosis





An image showing multiple endometriomas in the same ovary.  
It is important this assessment be made prior to surgery in  
order to avoid residual endometriosis

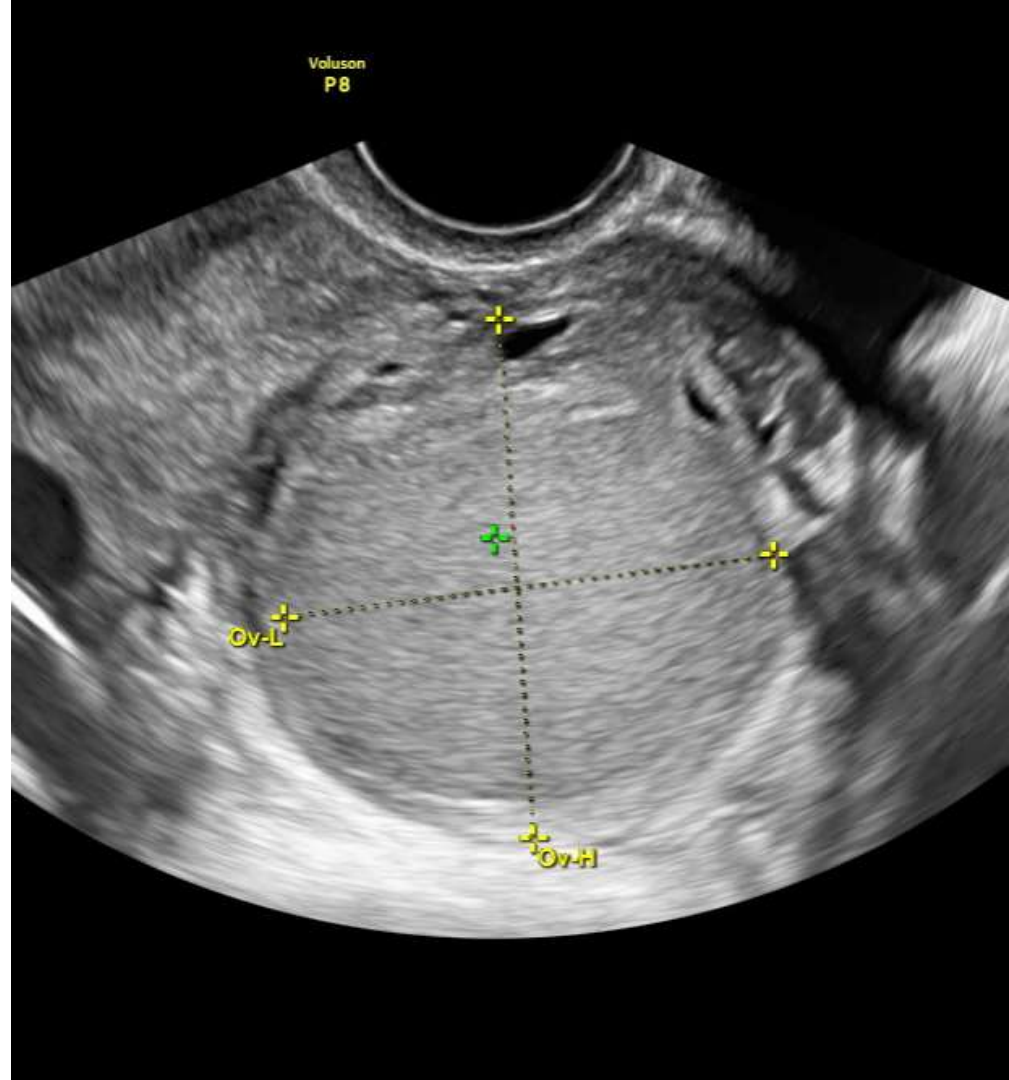




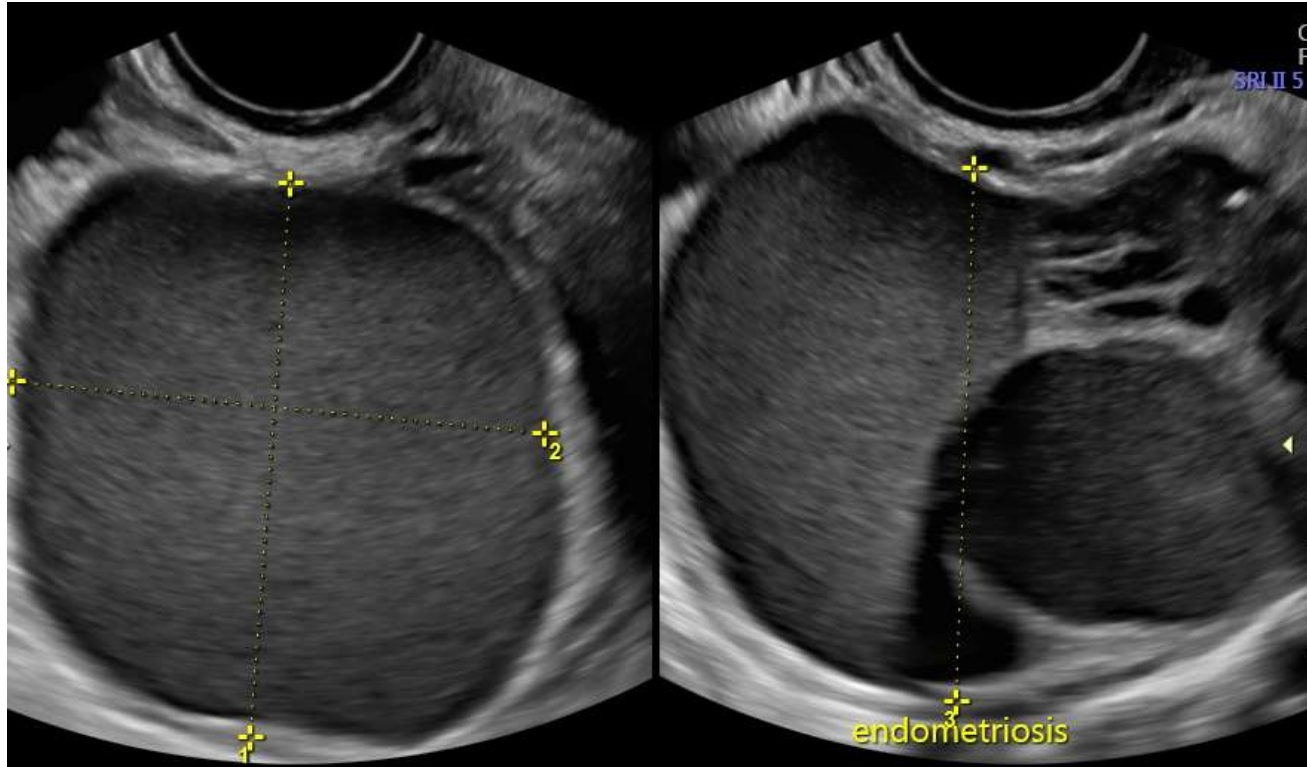
# Ovarian Endometrioma

Small endometriotic lesions are usually uniform and slightly hyperechoic than stroma

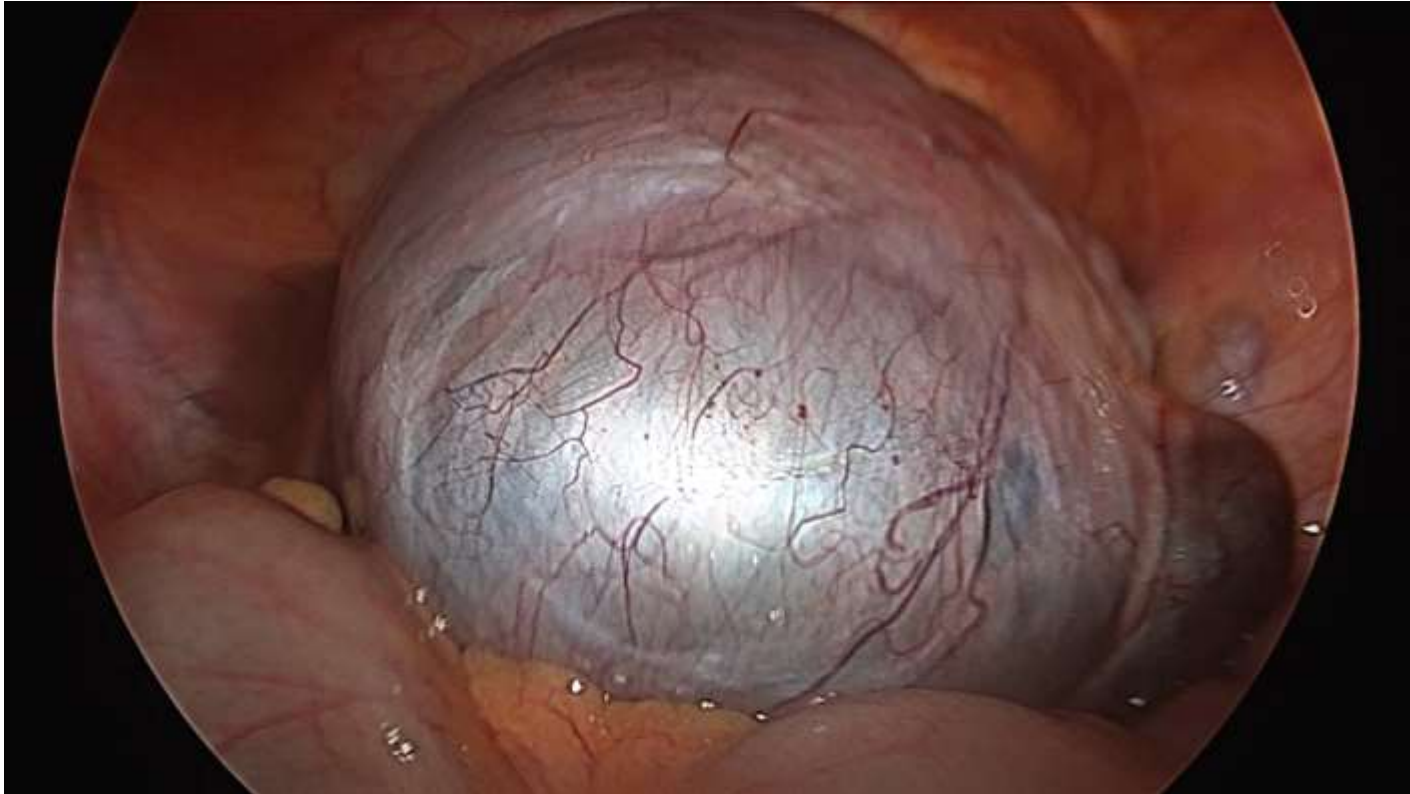
These lesions usually do not change their echotexture during diff phase of menstrual cycle







# Large Endometriomas





# Differential Diagnosis of Endometrioma

Dermoid Cyst

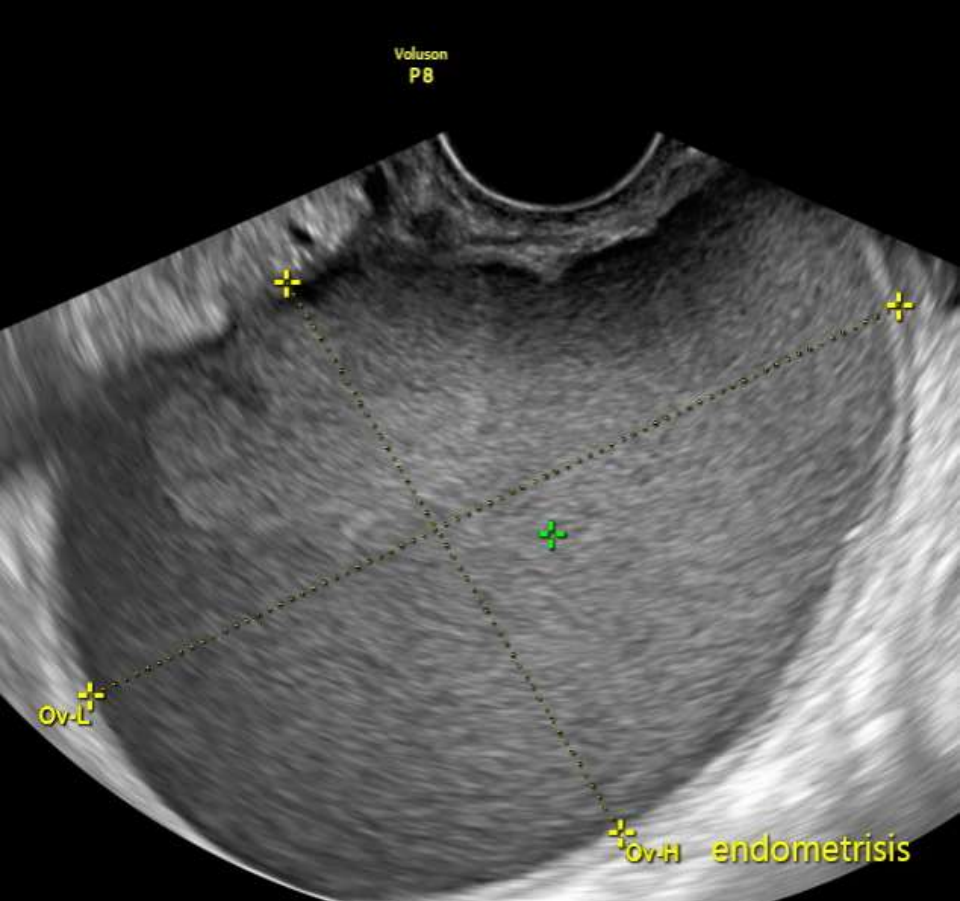
Haemorrhagic Cyst of Ovary

Serous cyst adenoma

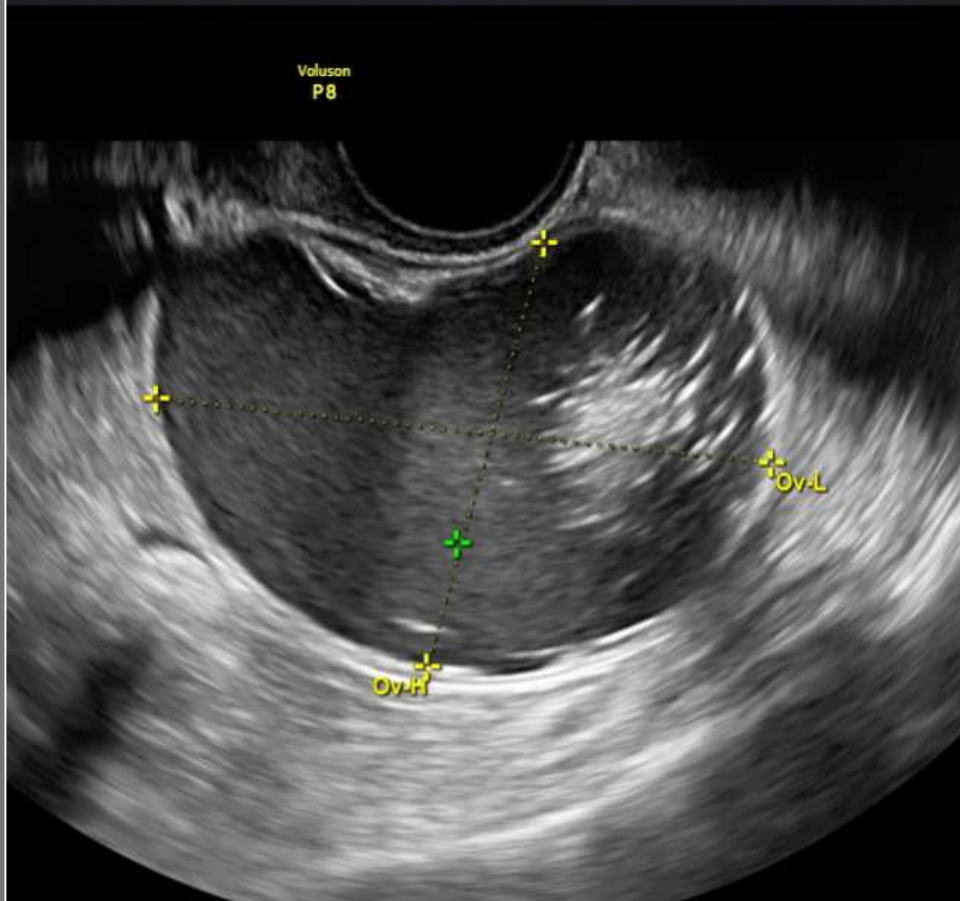
Pseudocystadenoma

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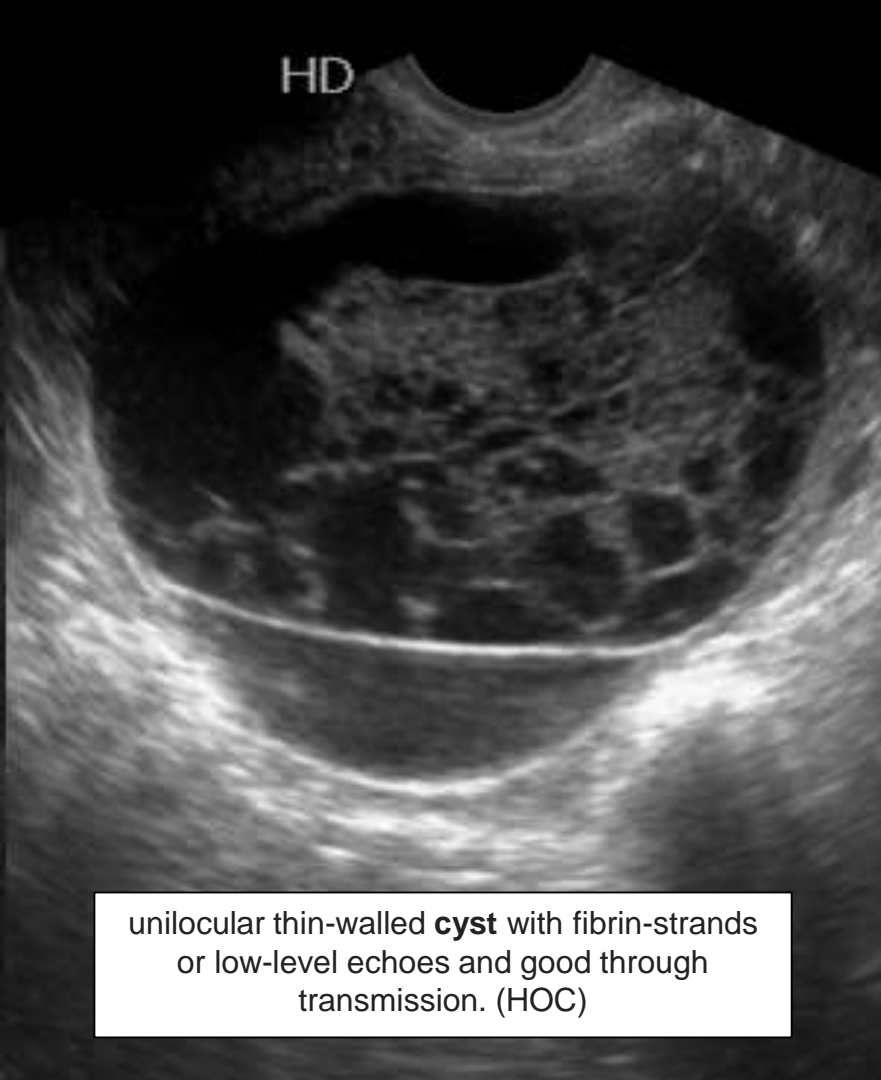




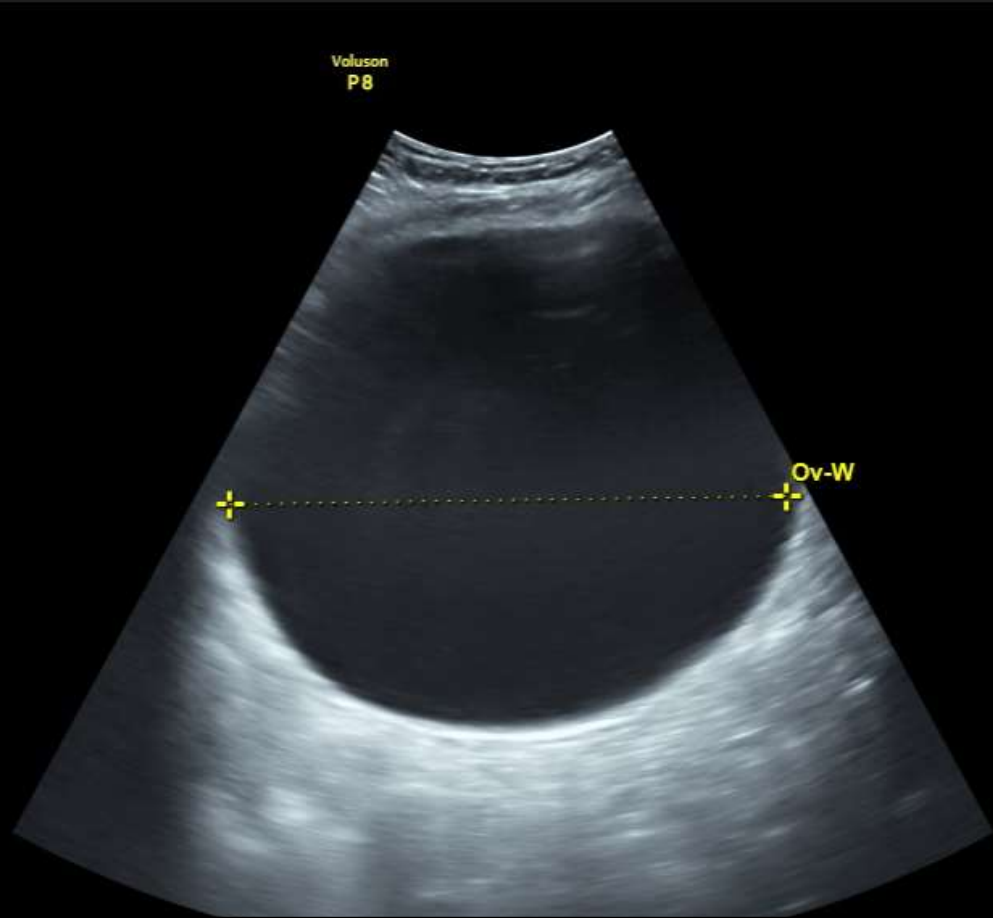
**Endometrioma**



**Dermoid plug; this is the most common sonographic feature of a dermoid cyst.**

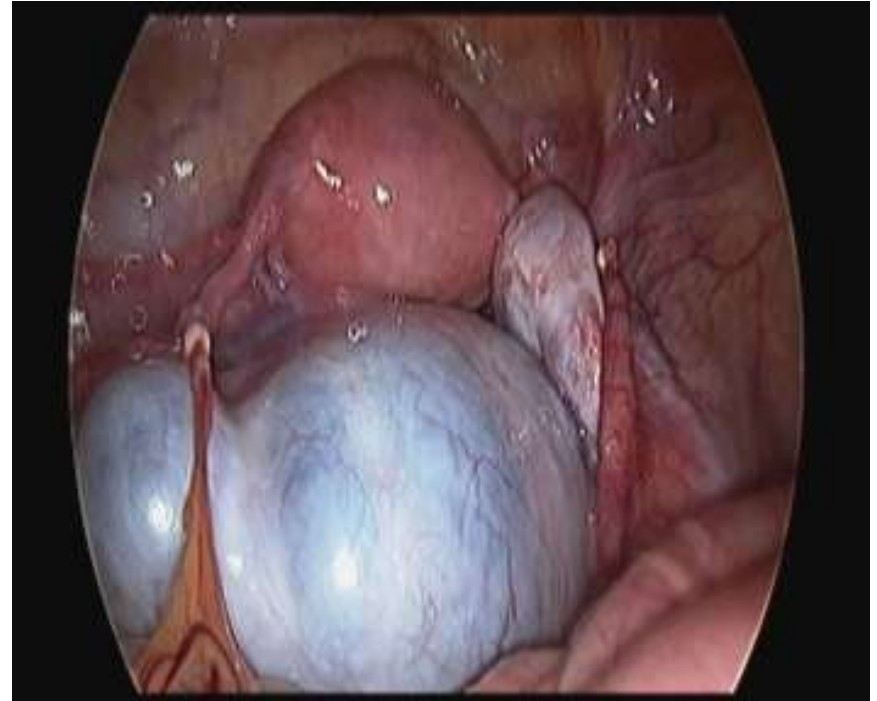
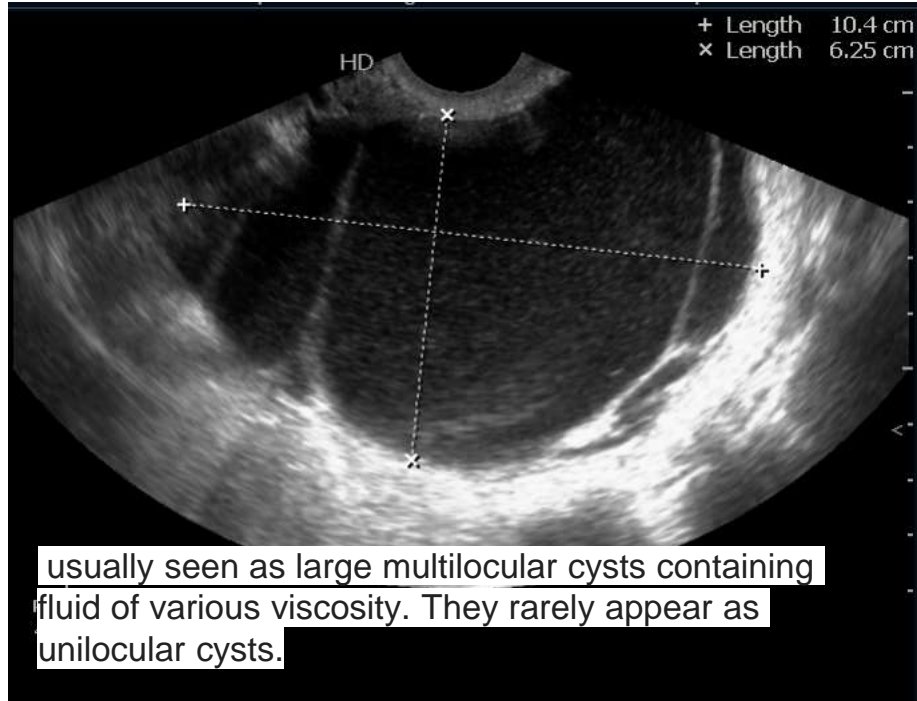


unilocular thin-walled **cyst** with fibrin-strands or low-level echoes and good through transmission. (HOC)



usually composed of unilocular (or at times multilocular) cysts filled with clear watery fluid.(serous cyst adenoma )

# Pseudo cystadenoma



# Endometrioma rules

Single best discriminator between endometrioma and other cysts is ground glass echogenicity of cyst fluid – sensitivity 73%, specificity 94%

- Premenopausal status
  - One to four locules
  - Absence of papillations with detectable blood flow
-

## **Ovarian endometrioma only are rarely the sole findings**

Ovarian endometriomas are the easiest to diagnose however by this stage the endometriosis has already reached stage 4

Women with ovarian endometriomas have more pelvic and intestinal areas invaded by endometriosis, compared to women without ovarian endometriomas

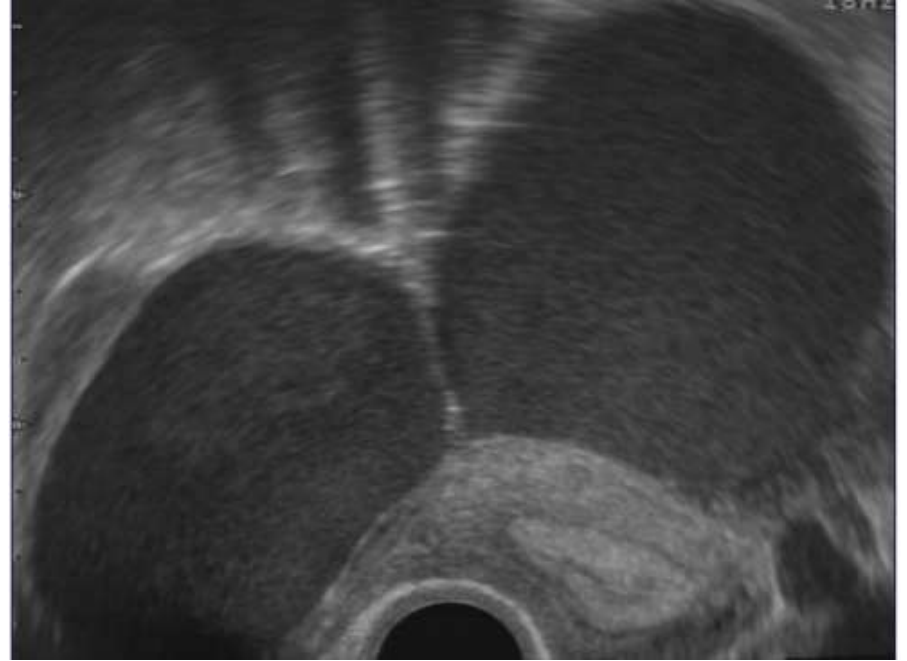
So it is important to identify other structures involved



# Kissing Ovaries

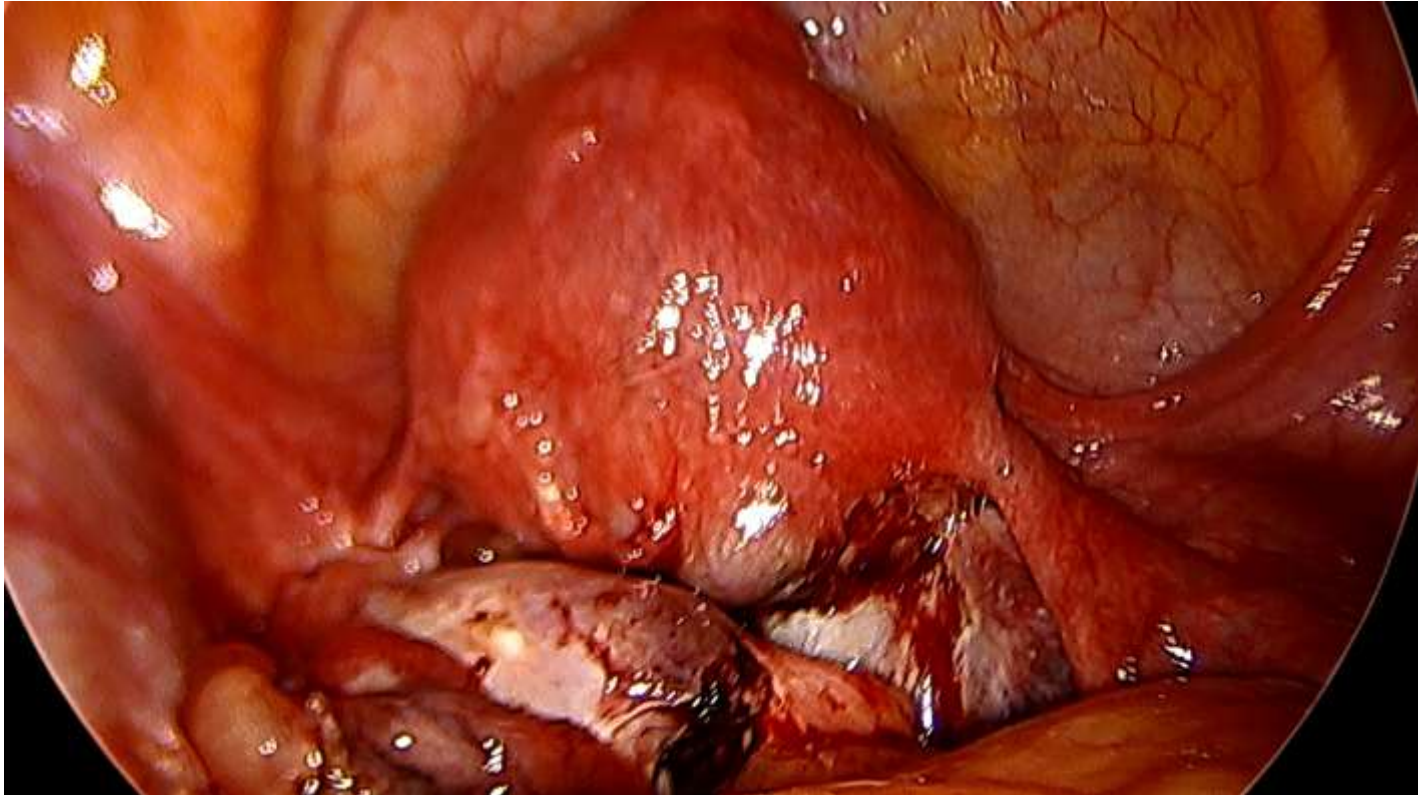
Both ovaries are joined behind the uterus in the pouch of Douglas

- Negative sliding sign (no movement) on applying gentle pressure with the trans-vaginal ultrasound probe
- Strongly associated with the presence of endometriosis and indicates a severe form of the disease (i.e. significant pelvic adhesions)



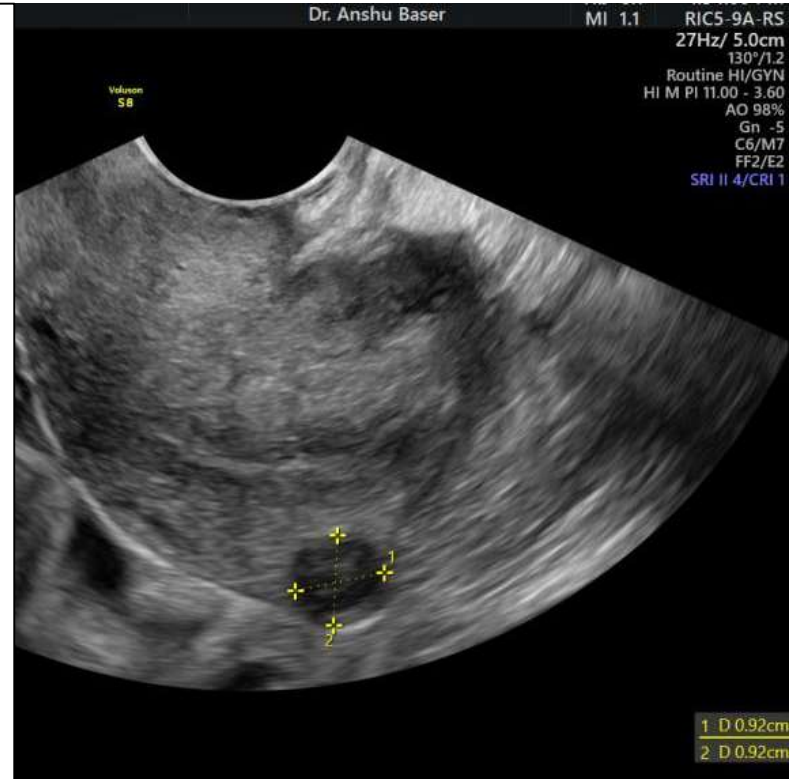


# Severe Endometriosis kissing ovaries



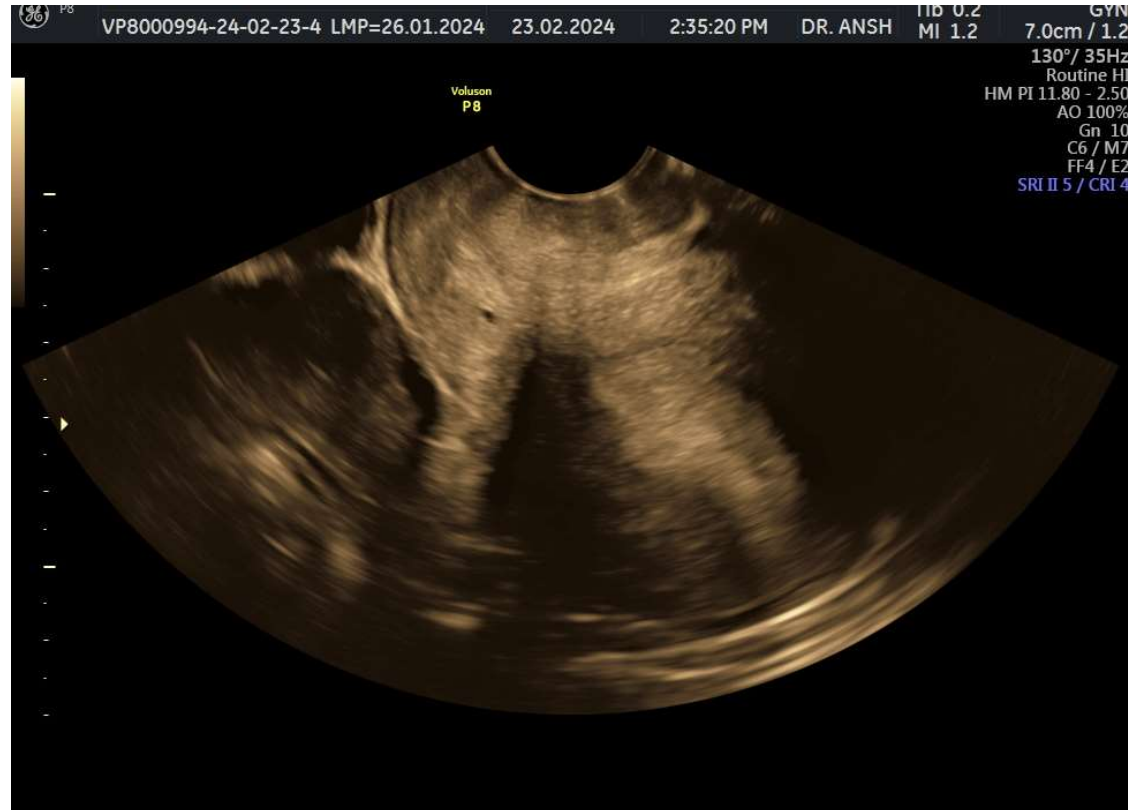
# Uterus in endometriosis

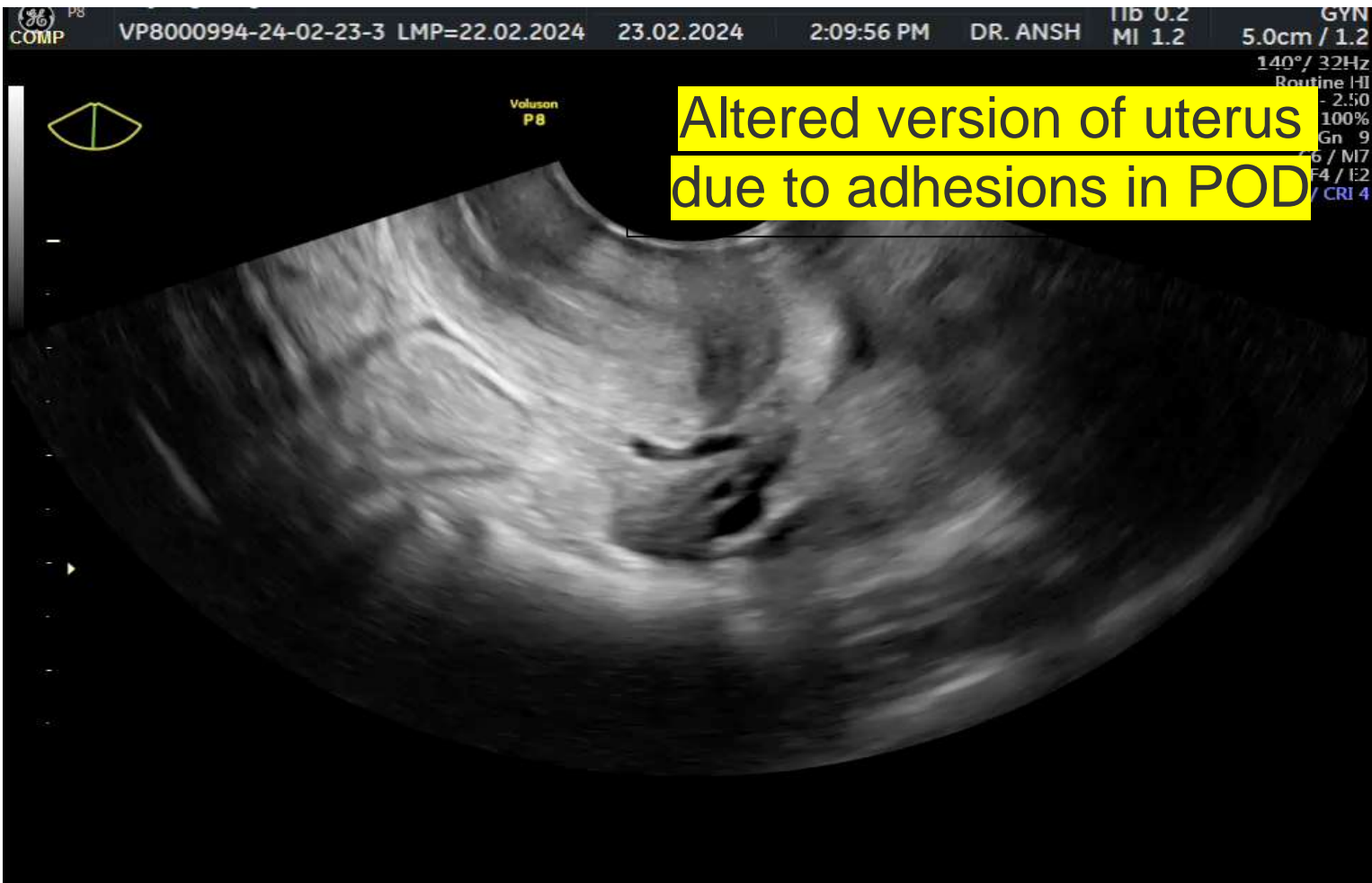
- Due to involvement of the uterosacccrals leading to adhesions endometriosis tends to cause retroflexion and retroversion of the uterus.
- This should alert us to the possibility of involvement of POD and need for further assessment





# Uterus in endometriosis



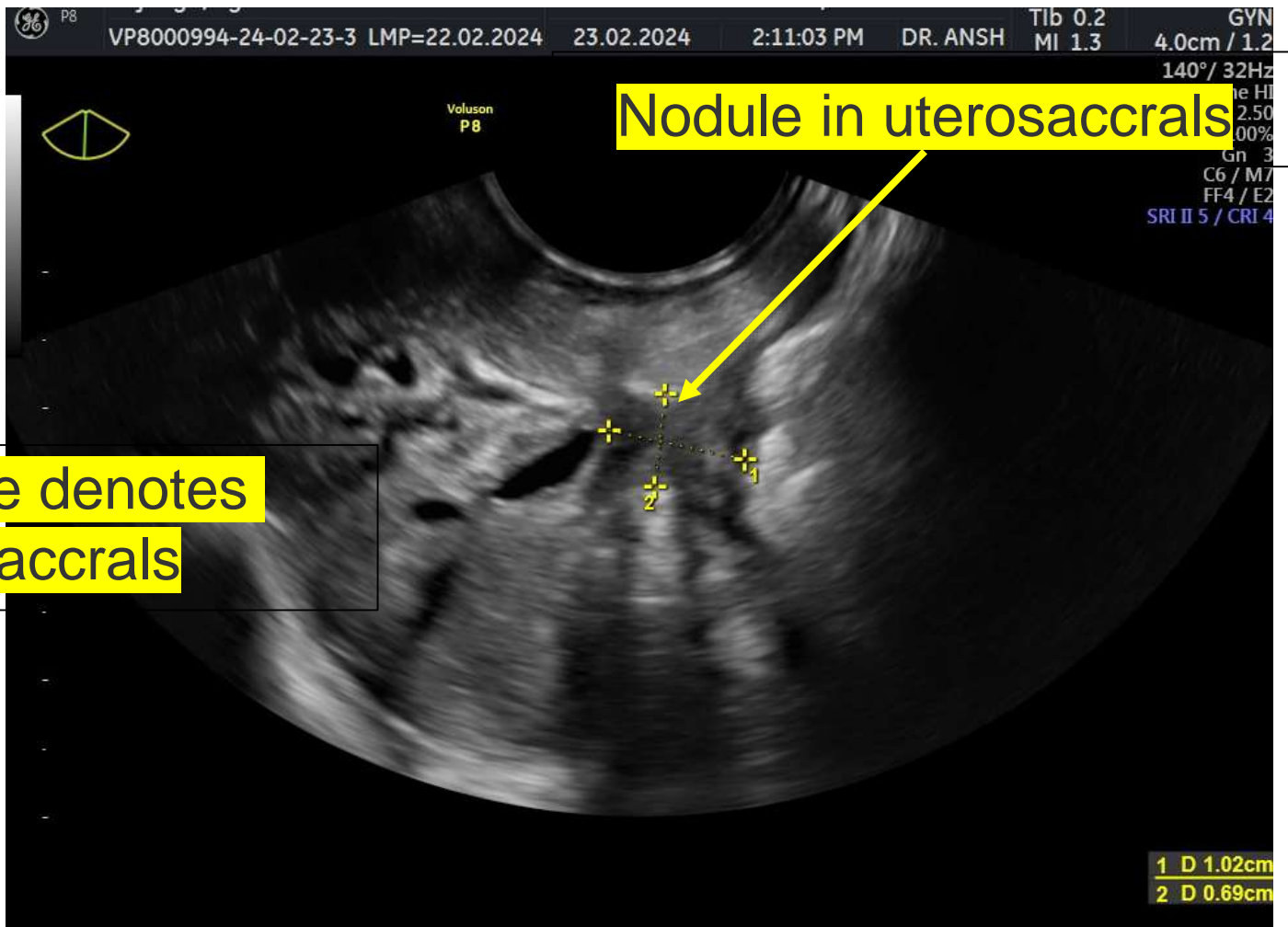


# Nodules or implants

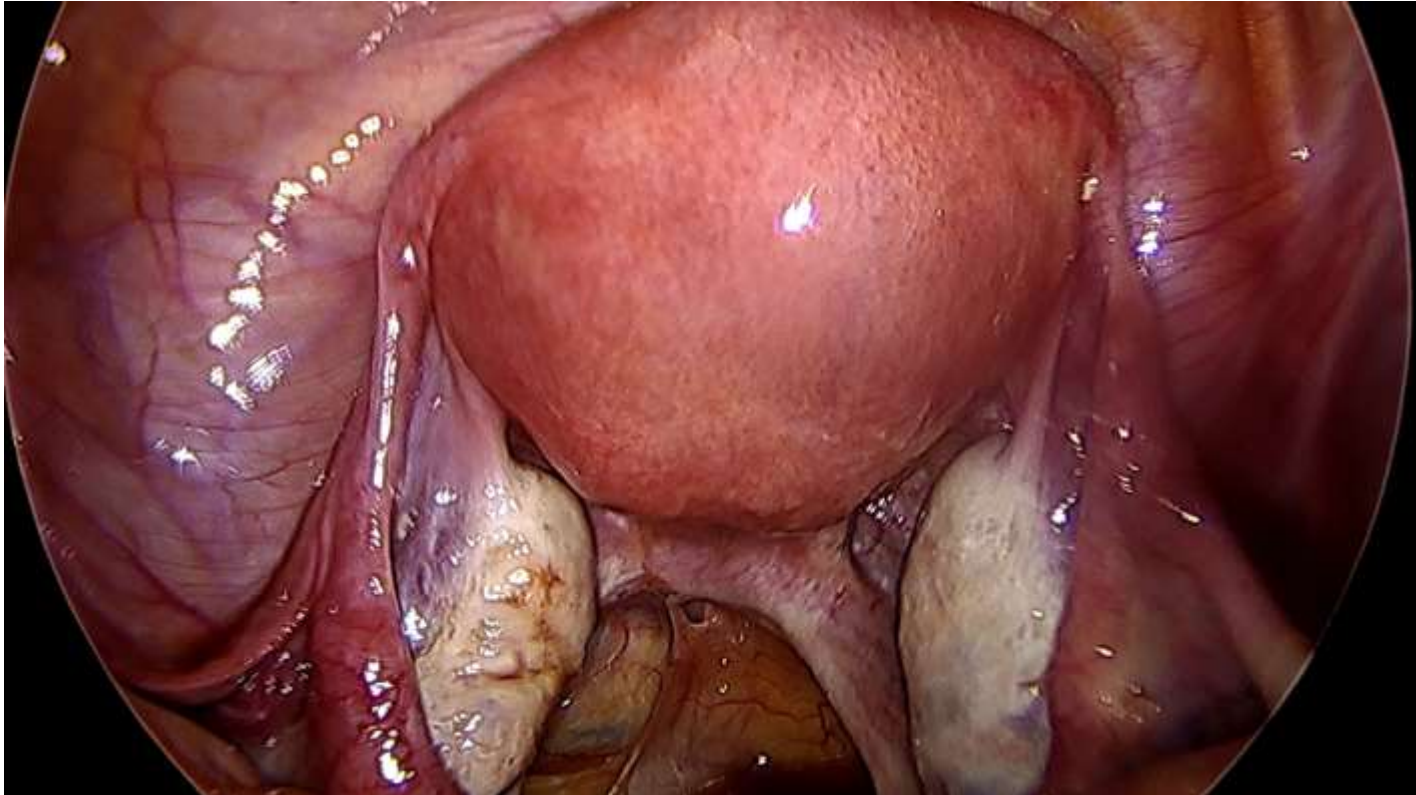
Nodules vary in size from a few mm to a few cm and are superficial or deep

- Nodules may change appearance during the menstrual cycle – becoming more swollen and congested during menses and develop internal haemorrhage
  - Only laparoscopy can detect superficial peritoneal implants
-





# Moderate Endometriosis







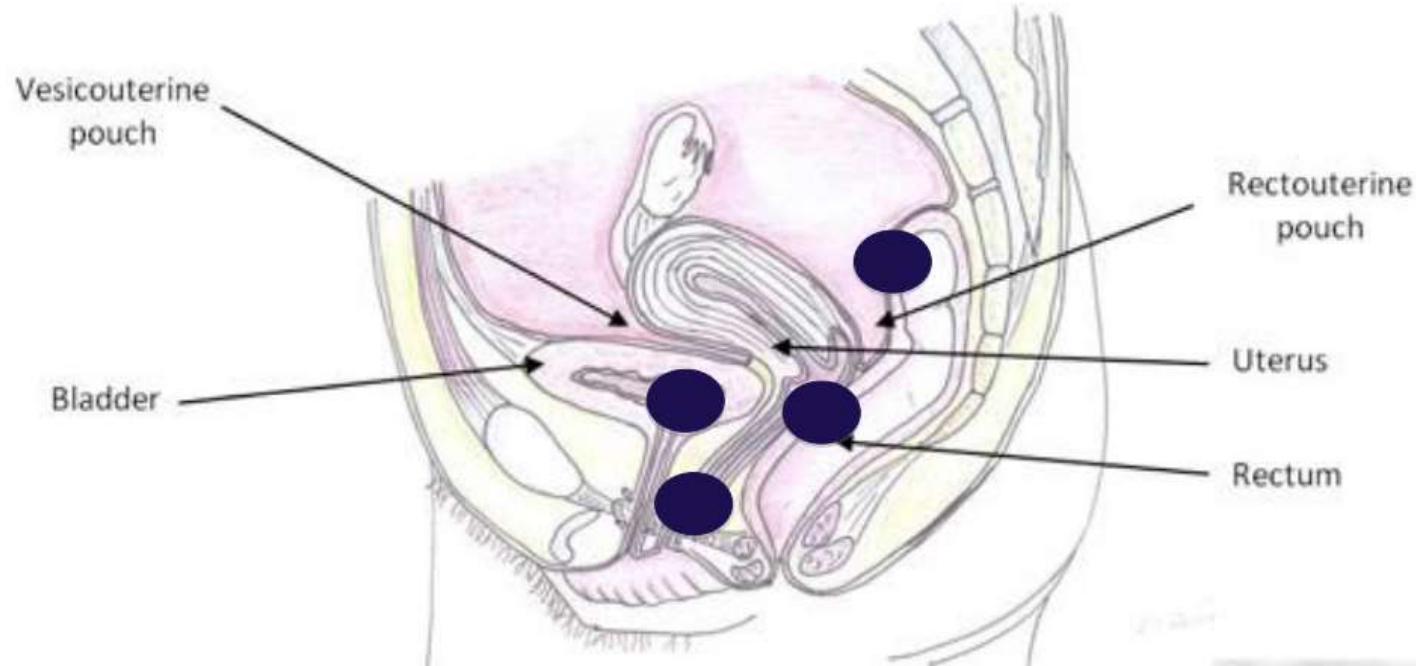
# — DIE

Definition is the infiltration of endometriotic nodules  $\geq 5\text{mm}$

- Locations includes - rectosigmoid -
    - utero-sacral ligaments -
    - recto-vaginal septum -
    - vagina -
    - bladder
-



# DIE



# Bowel nodule

Histologically definition is the presence of endometrial glands and stroma in the bowel reaching at least the muscularis propria

- Involves anterior rectum, rectosigmoid junction and/ or sigmoid colon
  - Typically hypoechoic or isoechoic solid masses with irregular outer margins
  - Tender on palpation
-

# Fertility and Sterility®



## Diagnosis of deep endometriosis: clinical examination, ultrasonography, magnetic resonance imaging, and other techniques

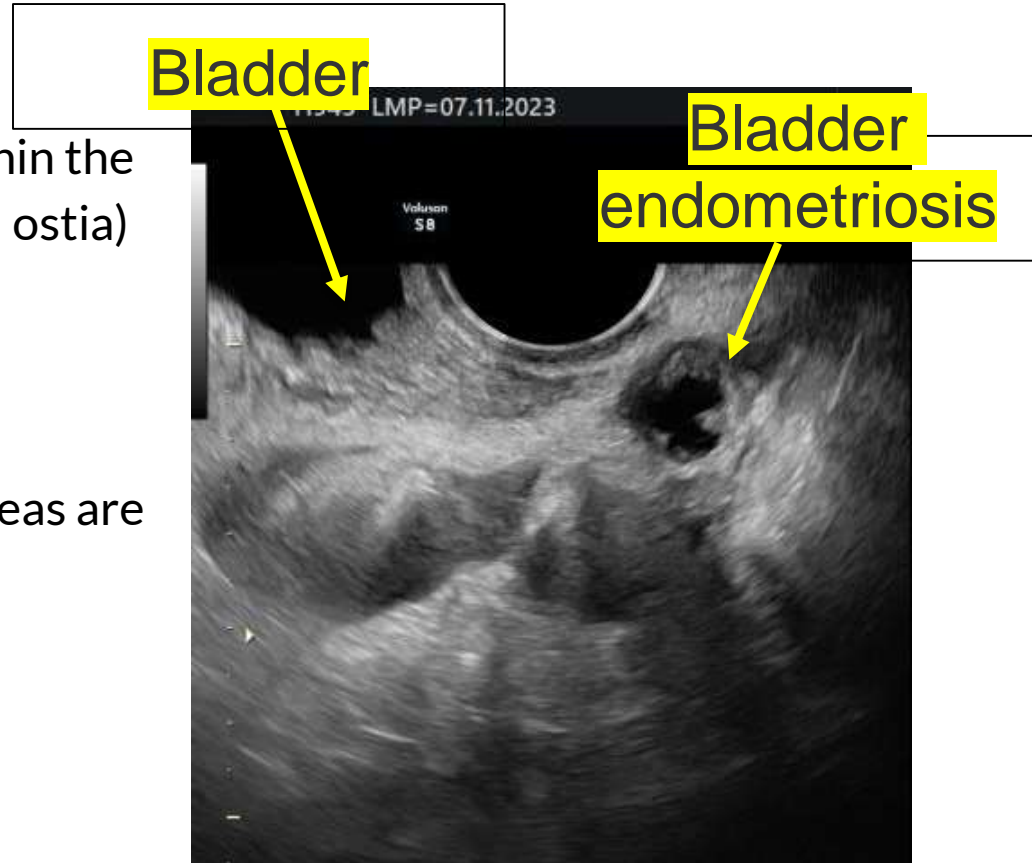
[Marc Bazot](#), M.D.<sup>a,b,\*</sup>  , [Emile Daraï](#), M.D., Ph.D.<sup>b,c,d</sup>

FOR rectosigmoid endometriosis, pooled sensitivity and specificity of MRI were 92% and 96%, respectively fulfilling criteria of replacement test. conclusion, advances in imaging techniques offer high sensitivity and specificity to diagnose DE with at least triage value and for rectosigmoid endometriosis replacement value imposing a revision of the concept of laparoscopy as the gold standard.

# Bladder nodule

Hypo- or iso echogenic nodule within the bladder base (close to the ureteral ostia) or in the bladder dome

- 'Nodular' or a 'comma' shape
- Small internal anechoic cystic areas are seen in approximately 30% of the nodules



# Bladder endometriosis

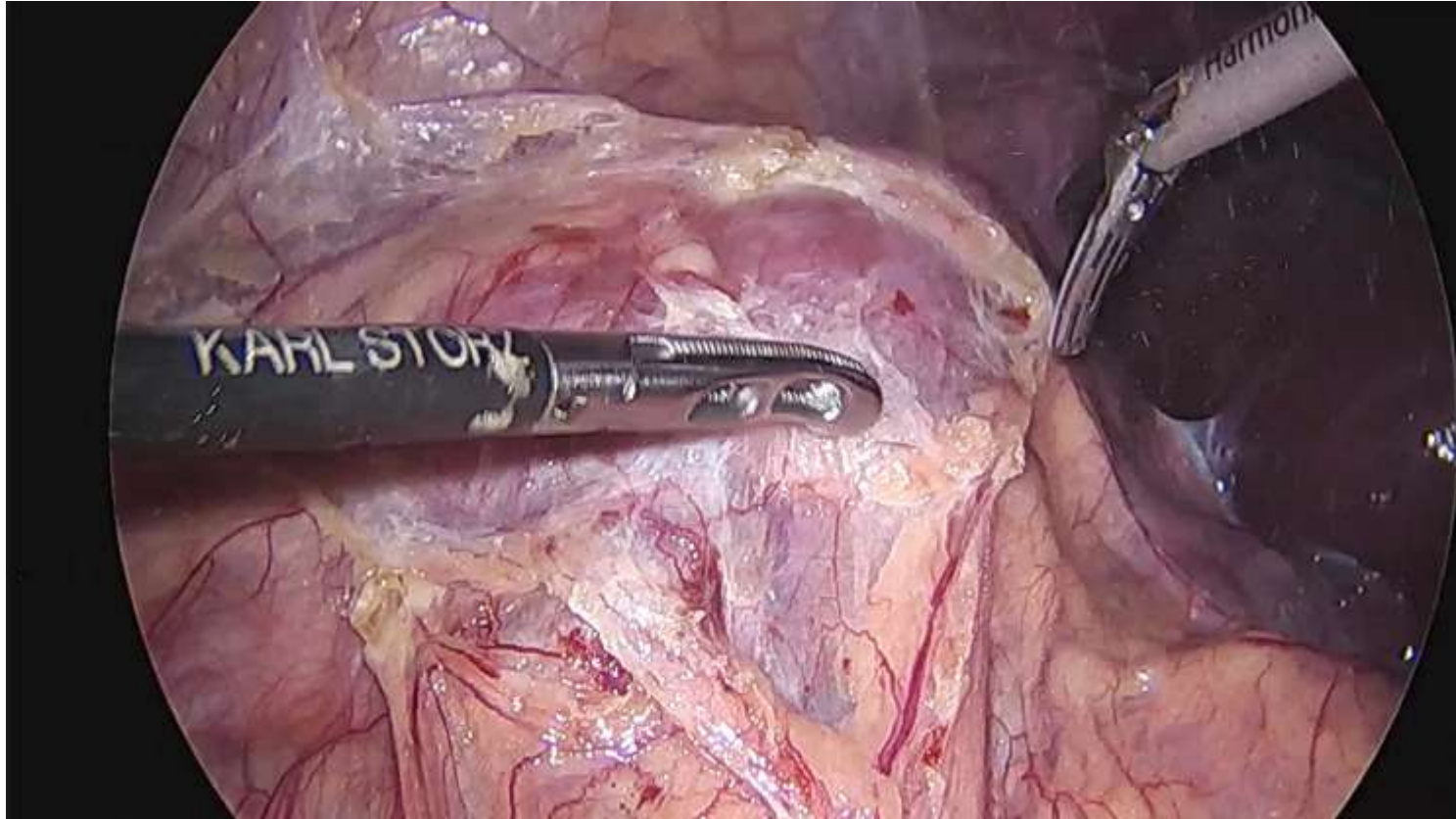


## — Why is it important to diagnose bladder endometriosis?

Bladder endometriosis mimics recurrent cystitis with dysuria, urgency, frequency, suprapubic pain and incontinence

- Macroscopic haematuria relatively rare
  - Occurs in 1 – 4% of women with laparoscopic diagnosis of endometriosis
  - **Diagnosis is often delayed or not considered at all**
-

# Ureteric endometriosis leading to hydronephrosis



# Endometriosis in myomectomy scar





H1016 LMP=07.11.2023

Dr. Anshu Baser

MI 1.1

RIC5-9A

21Hz/ 4.

180

Routine HI

HI M PI 11.00

AC

G

C

F

SRI II 4/

Voluson  
S8



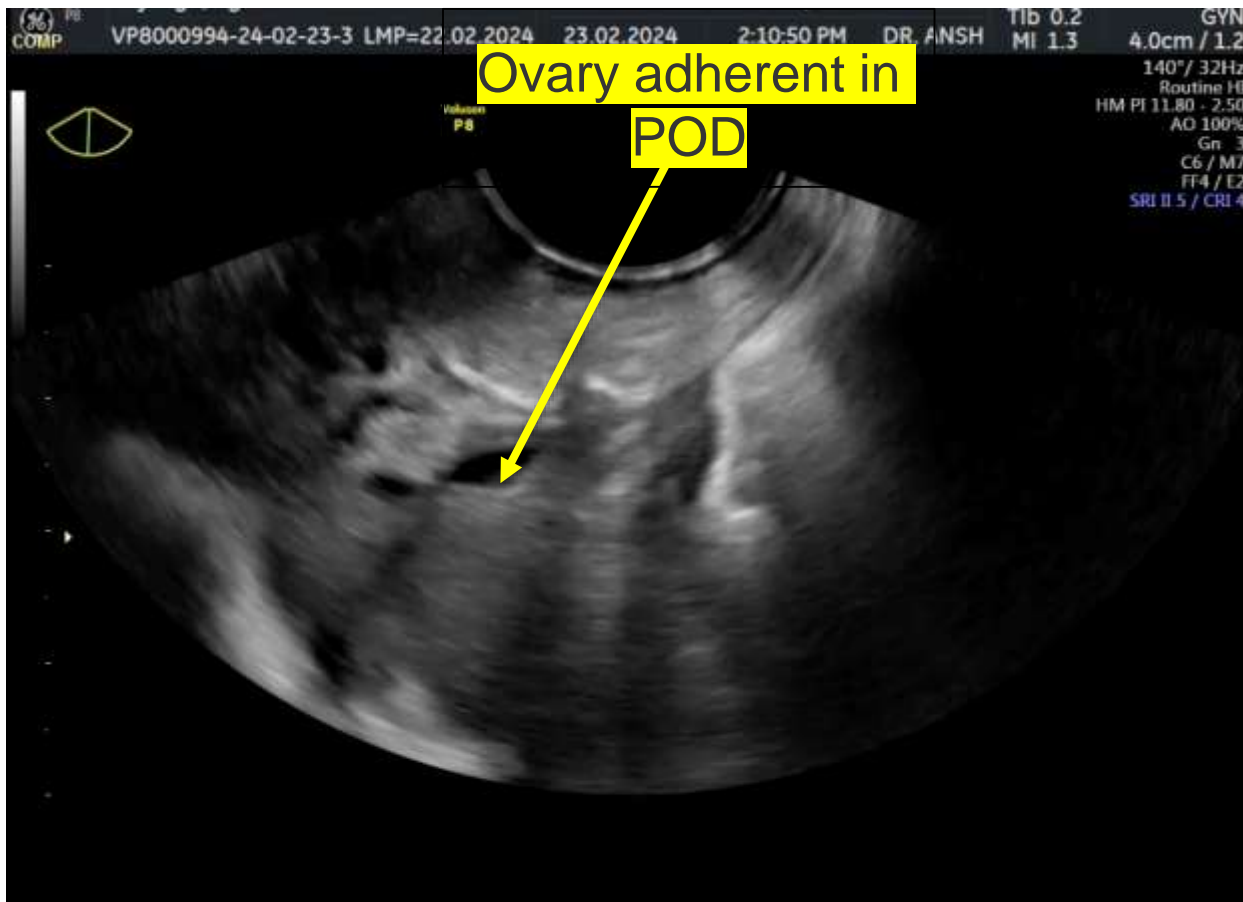
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# Ovarian mobility

Apply pressure with trans-vaginal probe to assess whether ovary is fixed to the uterus medially or the pelvic side wall laterally

- Note any indication of site specific pain

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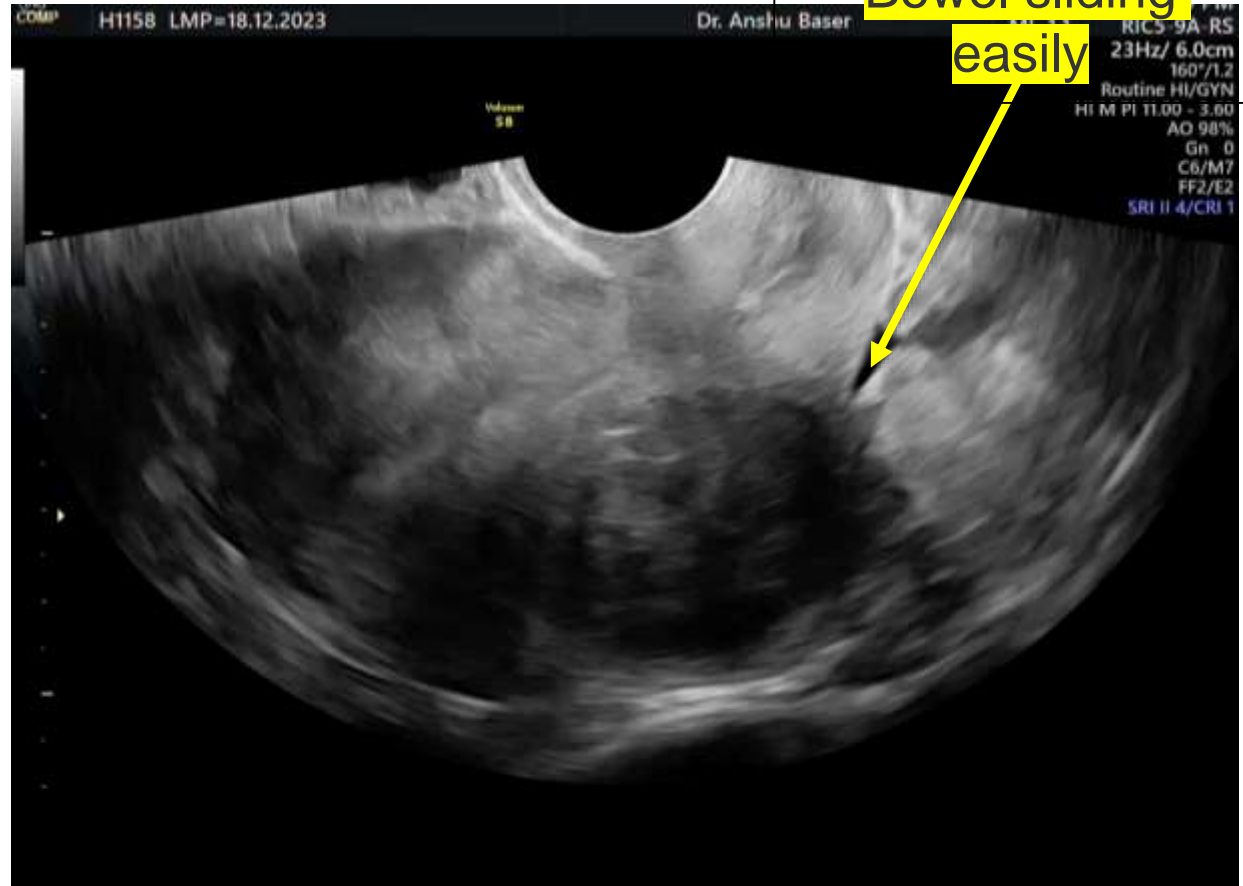
# Assessment of POD mobility

Use a slight pressure with the probe

- Uterus should slide anterior rectum
  - Then use free hand over abdominal wall to assess movement of the uterine fundus
  - If no movement in either location POD is recorded as obliterated
-

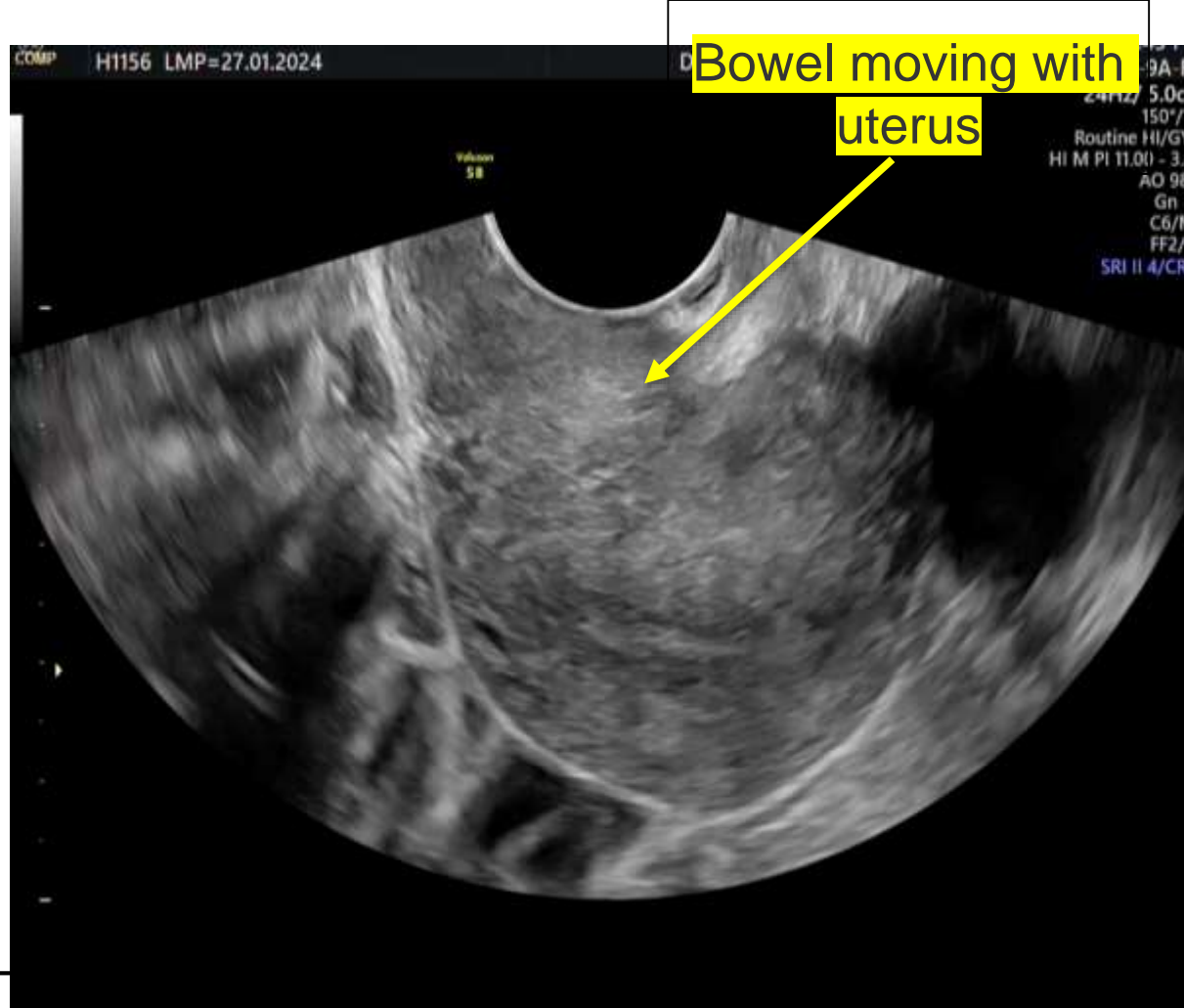
# Sliding sign

- A positive sliding sign indicates a POD free of adhesions as seen in the clip here.
- Follow the black line to assess the rectum



# Absent sliding sign

- A negative sliding sign indicates adherent bowels.
- Note how the rectum and the uterus move together as opposed to separately in the previous clip.

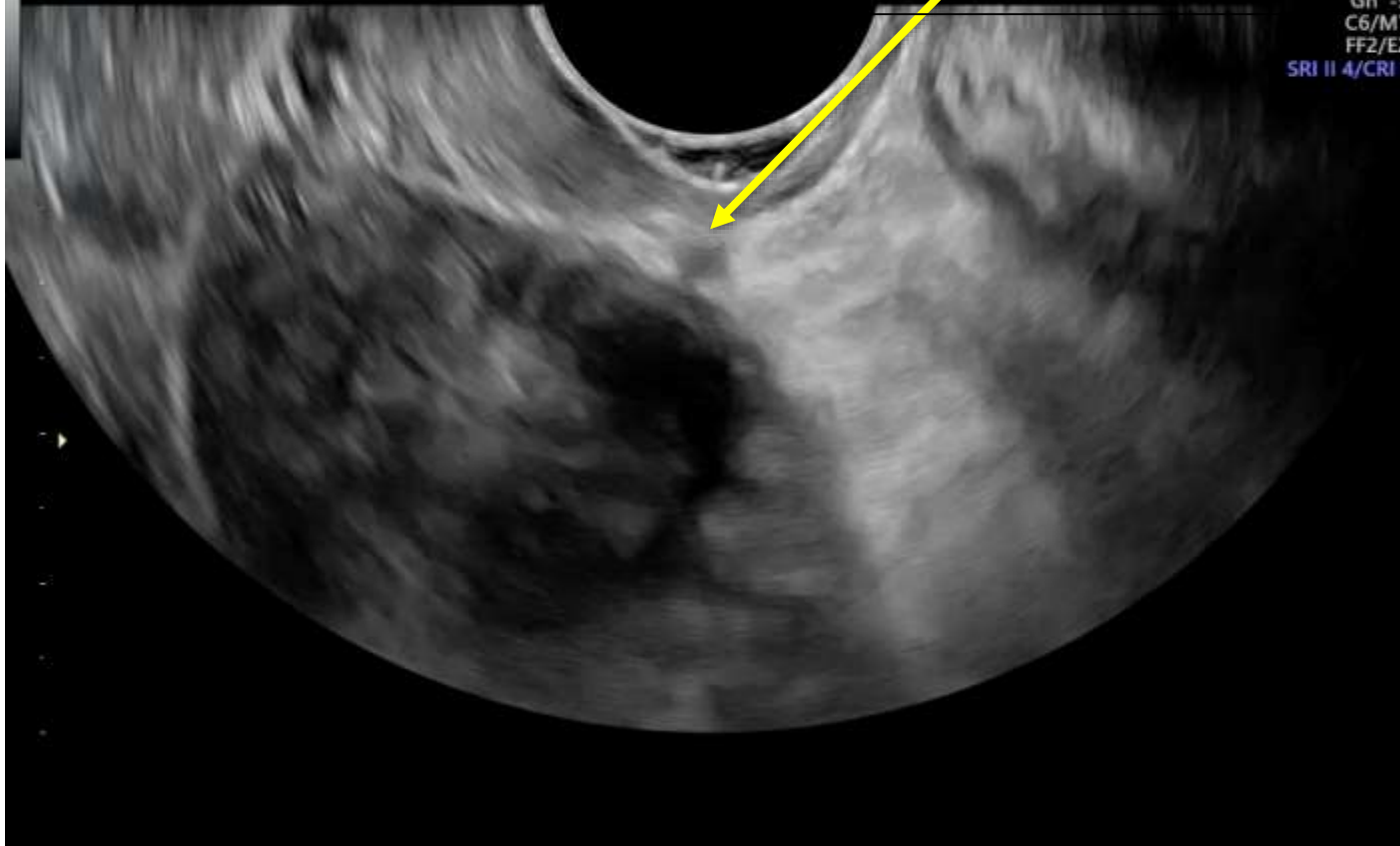


COMP H1156 LMP=27.01.2024

Follow the black line to  
identify rectum

Diffusion  
58

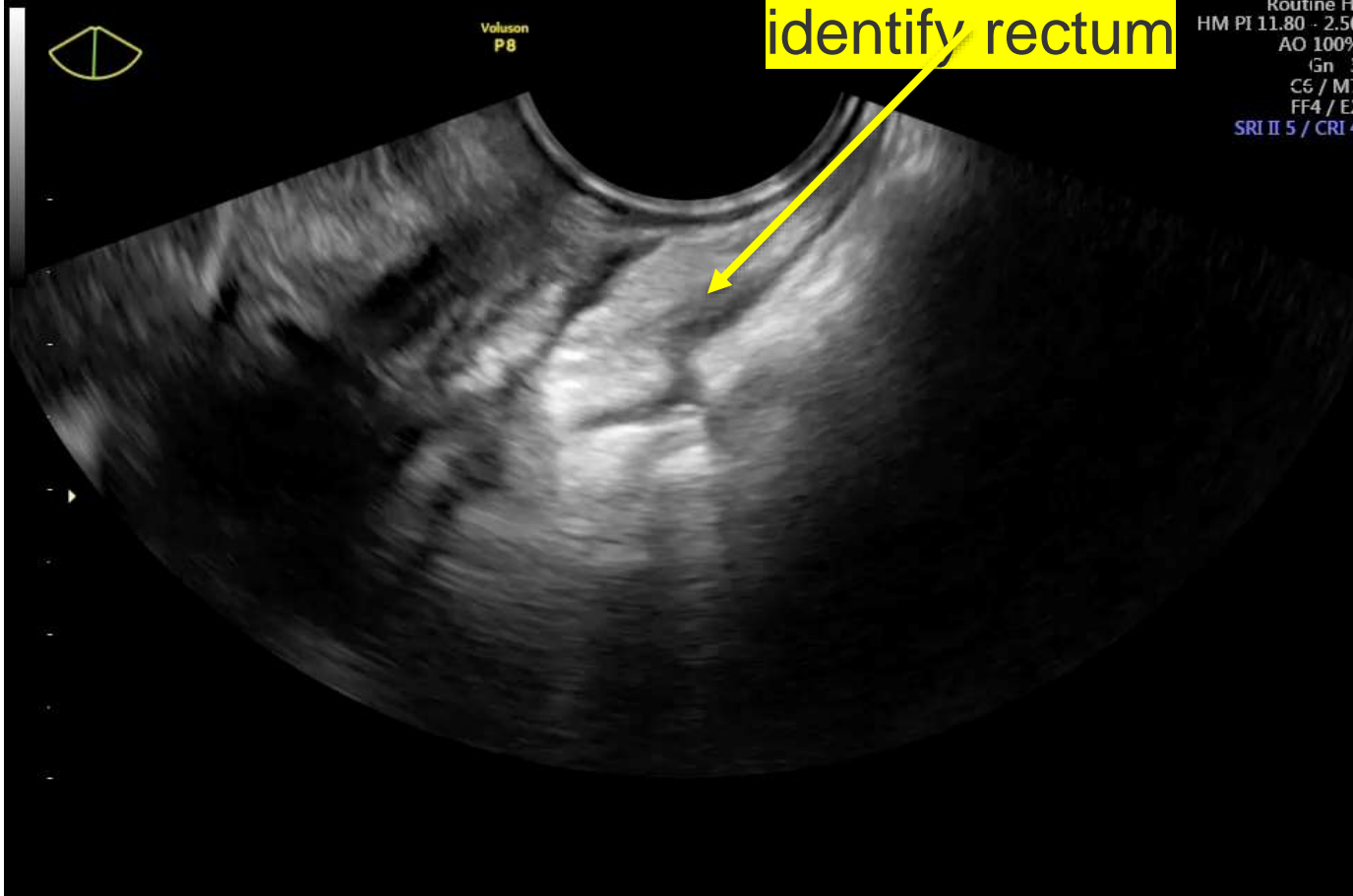
Routine HI/GYN  
HI M PI 11.00 - 3.60  
AO 98%  
Gn -5  
C6/M7  
FF2/E2  
SRI II 4/CRI 1





COMP VP8000994-24-02-23-3 LMP=22.02.2024 23.

Follow the black line to  
identify rectum



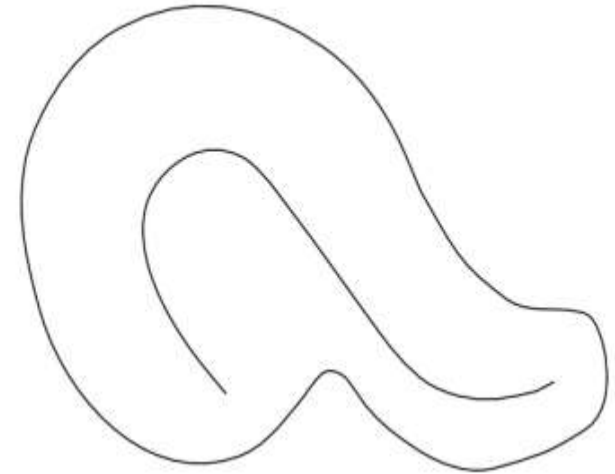
GYN / 1.2  
32Hz  
Routine HI  
HM PI 11.80 - 2.50  
AO 100%  
Gn 3  
C6 / M7  
FF4 / E2  
SRI II 5 / CRI 4

# Adhesions

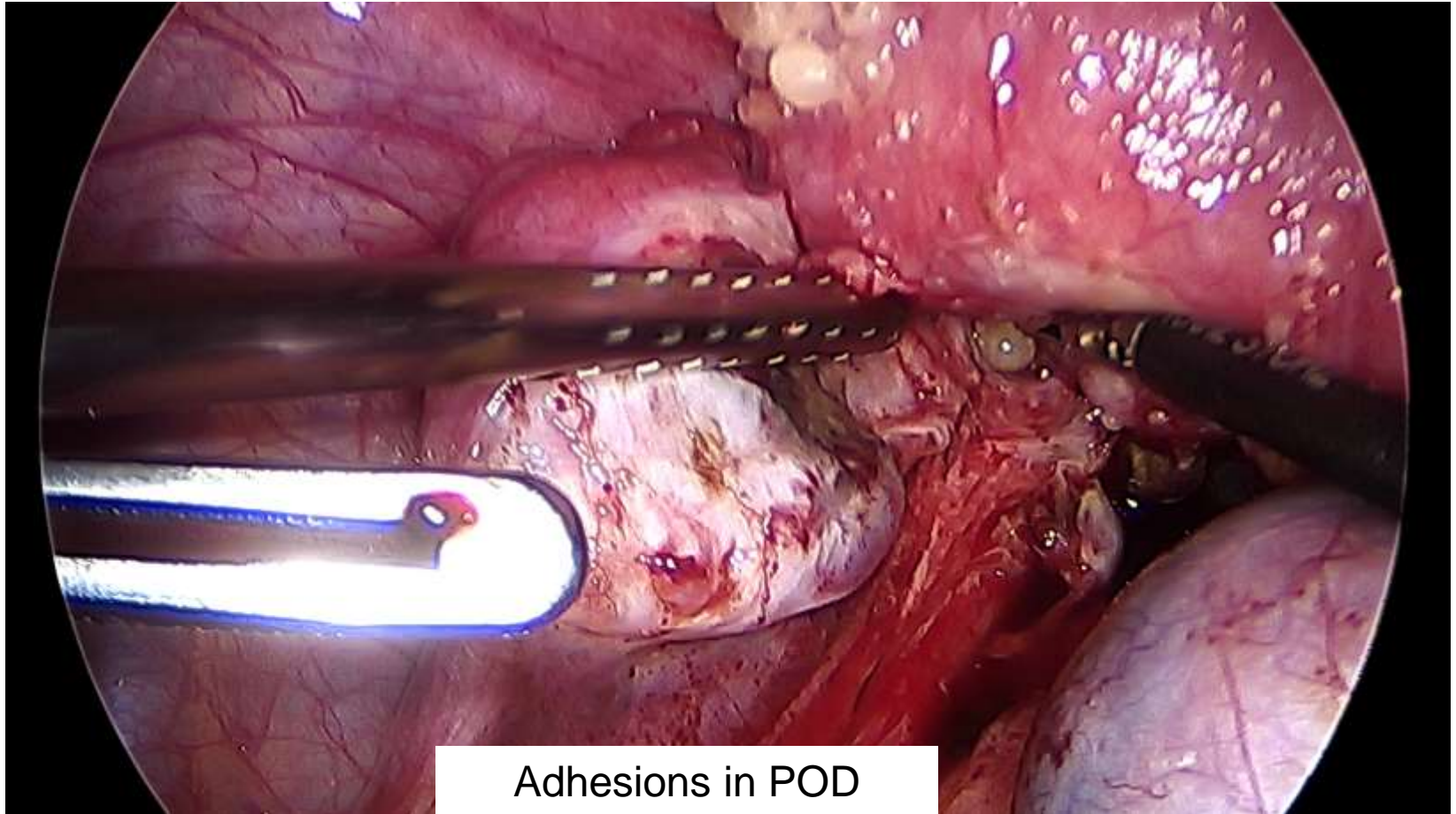
Filmy adhesions have fluid entrapped within them. Known as the 'flapping sail sign'



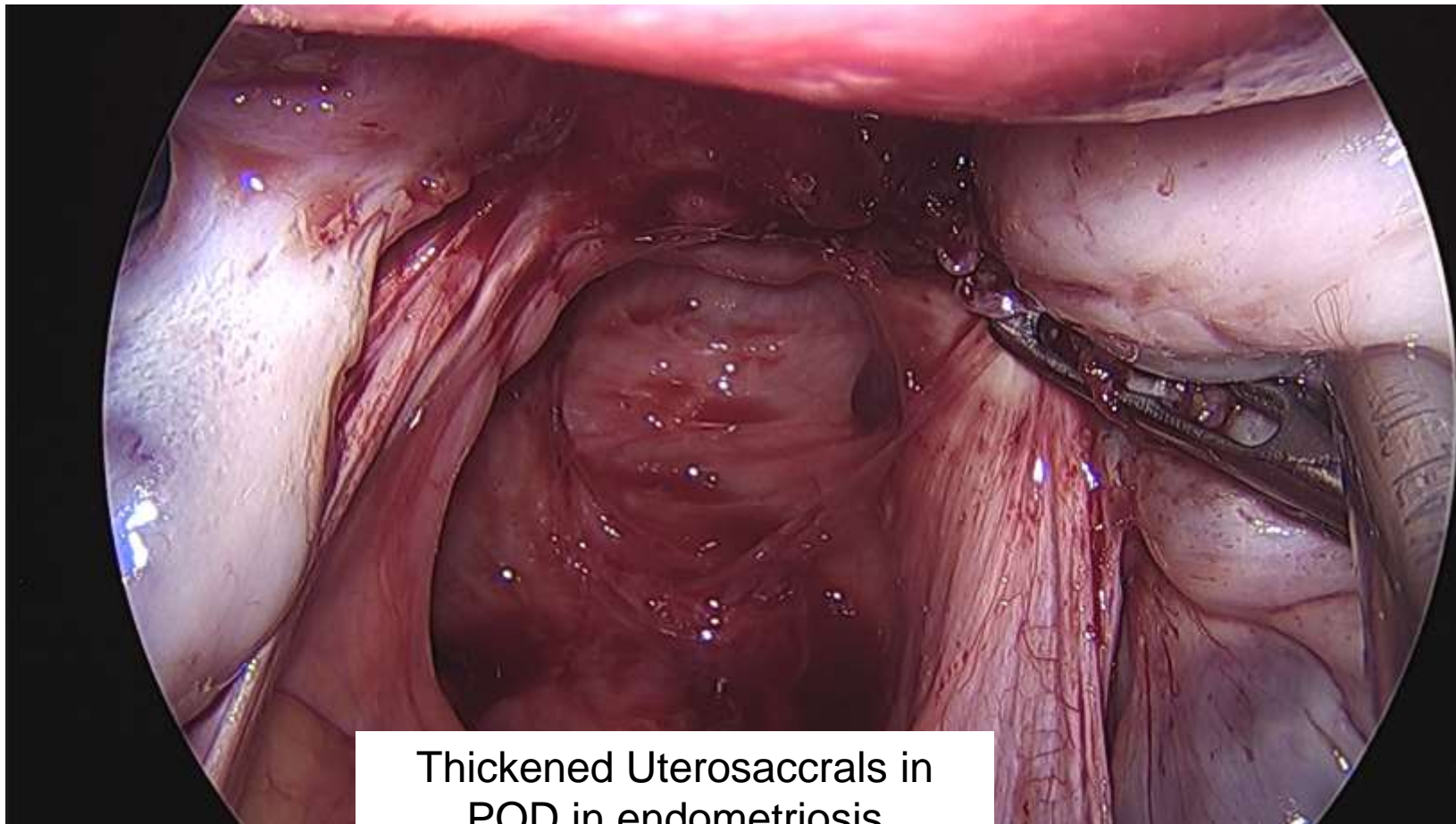
Question mark sign - Fundus of uterus is 'pulled' by adhesions - Uterus is 'fixed'







Adhesions in POD



Thickened Uterosacrrals in  
POD in endometriosis



# USG Checklist in Endometriosis

- ☐ Uterus Mobility and Adenomyosis
  - ☐ Ovaries -Endometrioma and Mobility
  - ☐ Mobility of anterior compartment
  - ☐ Mobility of Posterior compartment
  - ☐ Bladder , Bowel endometriosis
  - ☐ Hydronephrosis
-

—  
**Take to work message**

**ultrasound is a modality can be learnt by  
gynaecologists**

**we should have focused ultrasound  
specialists for endometriosis .**

**It is important in era of AI**



# MRI

Non invasive adjunctive test for diagnosis of endometriosis with ultrasound.

MRI help in assessing area inaccessible to laparoscopy

Lesions hidden by dense adhesions .

Diagnostic performance of TVS and MRI is similar for detecting DIE involving rectosigmoid, uterosacral ligament and rectovaginal septum

Operator dependent.

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## Systematic approach to sonographic evaluation of the pelvis in women with suspected endometriosis, including terms, definitions and measurements: a consensus opinion from the International Deep Endometriosis Analysis (IDEA) group

S. GUERRIERO<sup>1#</sup>, G. CONDOUS<sup>2#</sup>, T. VAN DEN BOSCH<sup>3</sup>, L. VALENTIN<sup>4</sup>, F. P. G. LEONE<sup>5</sup>, D. VAN SCHOUBROECK<sup>3</sup>, C. EXACOUSTOS<sup>6</sup>, A. J. F. INSTALLÉ<sup>7</sup>, W. P. MARTINS<sup>8</sup>, M. S. ABRAO<sup>9</sup>, G. HUDELIST<sup>10</sup>, M. BAZOT<sup>11</sup>, J. L. ALCAZAR<sup>12</sup>, M. O. GONÇALVES<sup>13</sup>, M. A. PASCUAL<sup>14</sup>, S. AJOSSA<sup>1</sup>, L. SAVELLI<sup>15</sup>, R. DUNHAM<sup>16</sup>, S. REID<sup>17</sup>, U. MENAKAYA<sup>18</sup>, T. BOURNE<sup>19</sup>, S. FERRERO<sup>20</sup>, M. LEON<sup>21</sup>, T. BIGNARDI<sup>22</sup>, T. HOLLAND<sup>23</sup>, D. JURKOVIC<sup>23</sup>, B. BENACERRAF<sup>24</sup>, Y. OSUGA<sup>25</sup>, E. SOMIGLIANA<sup>26</sup> and D. TIMMERMAN<sup>3</sup>

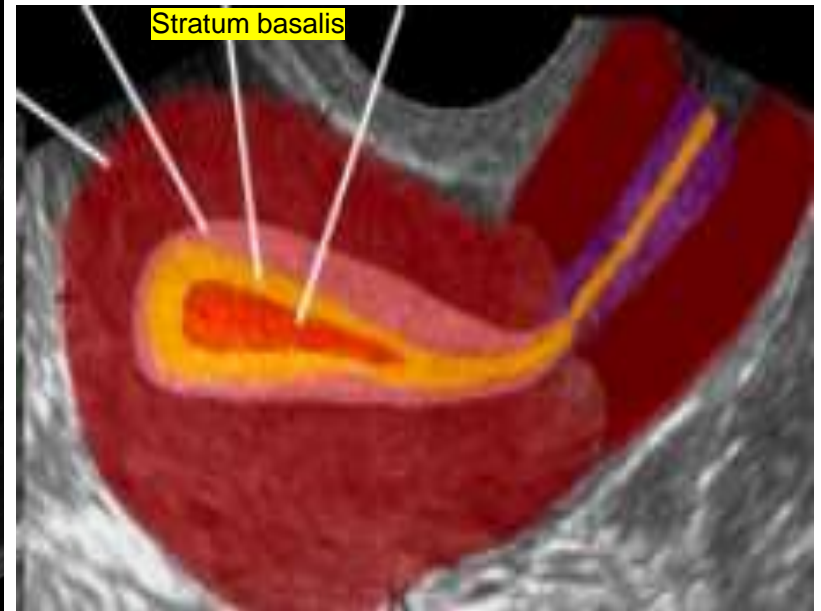
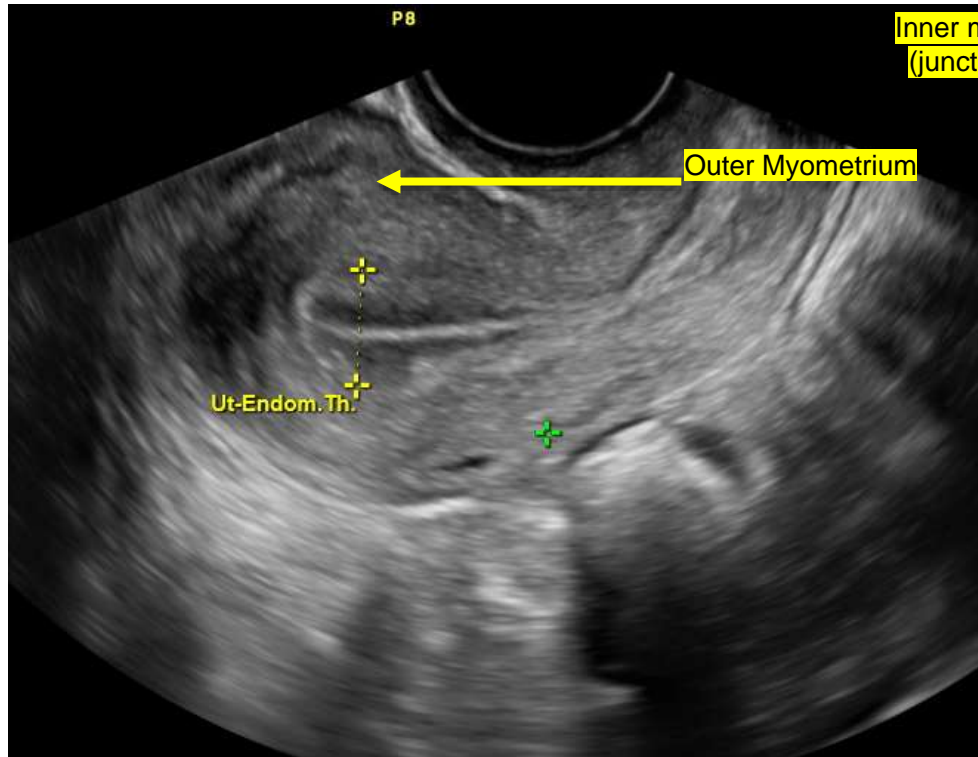
This a paper by Mathew Leonardi et al in which they have explained detailed analysis of endometriosis on ultrasound

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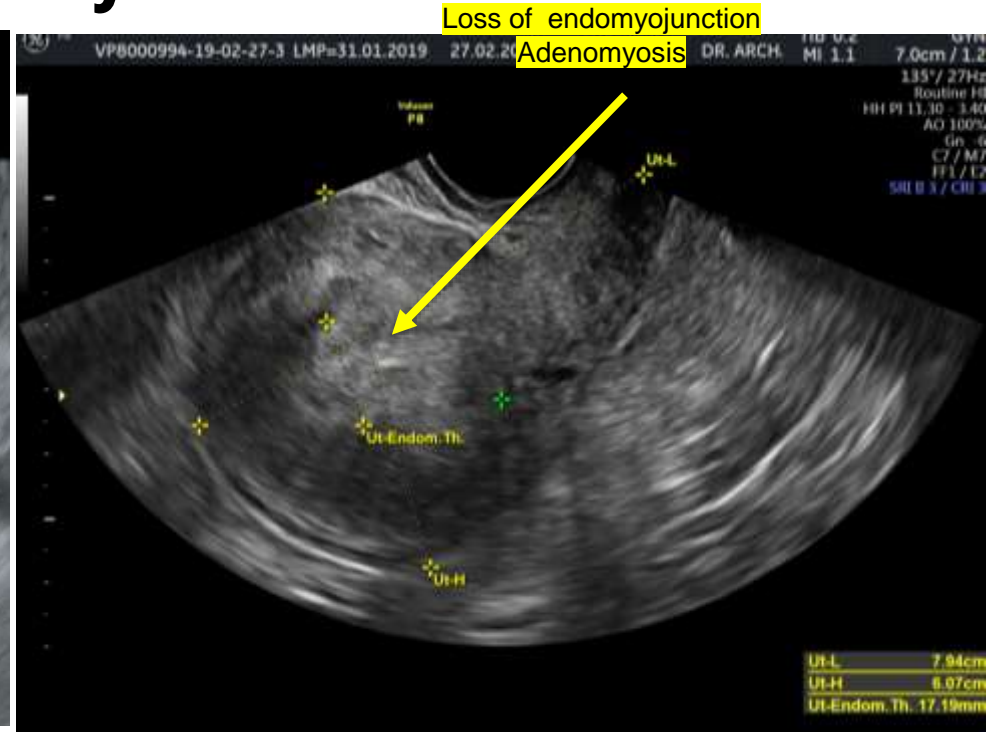
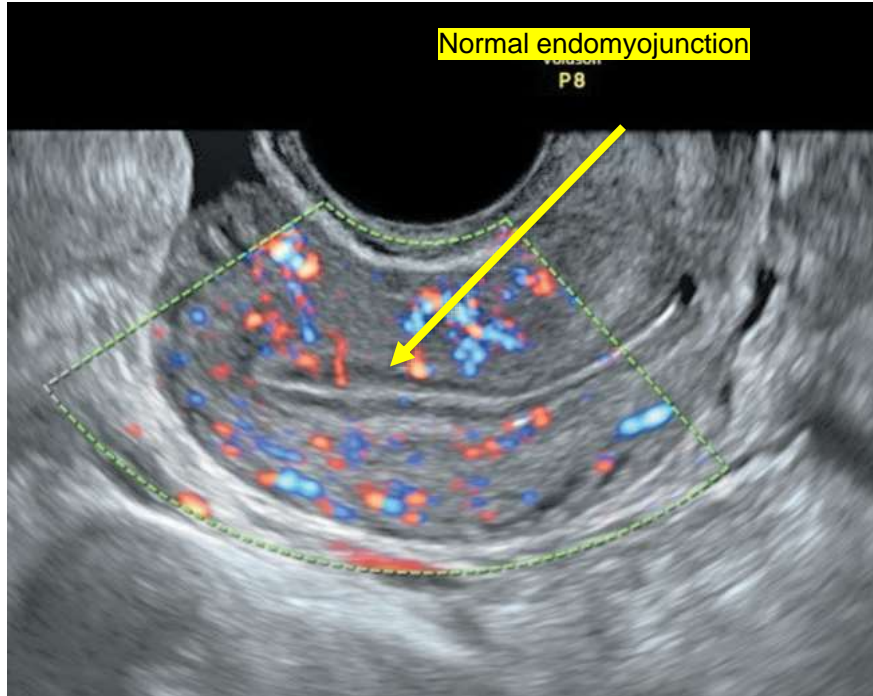
# Ultrasound features of Adenomyosis

- First clue to **adenomyosis** is often an ill-defined lesion within the myometrium.
- A lesion may have an irregular contour, no rim, no edge shadows or a fan-shaped shadow.
- Other features may include: Myometrial cysts.
- Hyperechoic islands.
- Sub endometrial lines and buds.
- Translesional flow.
- **A thickened, irregular or ill-defined junctional zone.**
- Myometrial anterior-posterior asymmetry.
- An enlarged uterus.
- Vascular arrangement is radial and penetrating.

# Ultrasonographic Anatomy



# Normal Anatomy:



## Three Key signs on ultrasound -

- 1. **Ectopic endometrial glands** These manifest as echogenic nodules and striations radiating from the endometrium into the myometrium.
- 2. **Muscular hyperplasia and hypertrophy** This appears as globular uterine enlargement and asymmetric myometrial thickening, often with thin ventian blinds or streaky shadowing.
- 3. **Hypervascularity** Adenomyosis increases uterine vascularity, which shows up on color Doppler as a pattern of penetrating vessels. It's important to distinguish these from peripheral vessels, which indicate the presence of fibroids.

# Ultrasound features of Adenomyosis

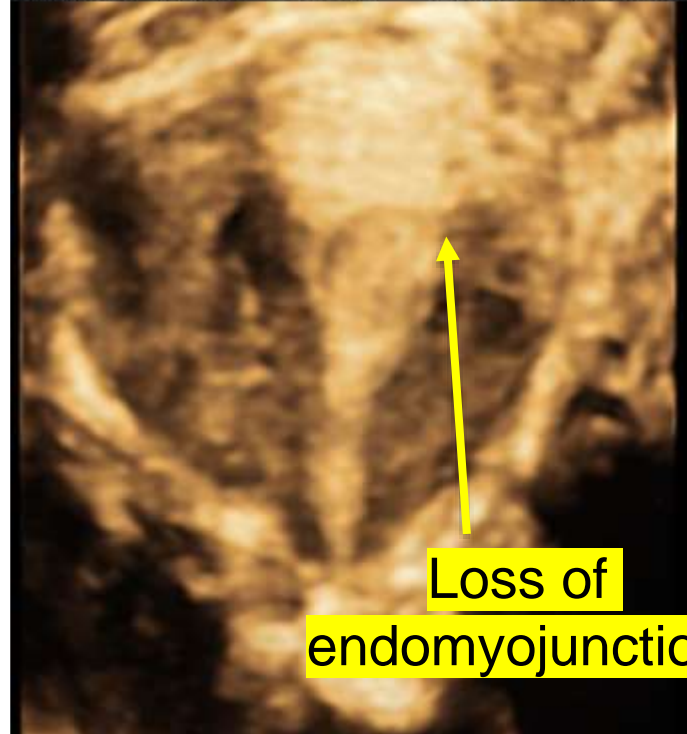
- Asymmetrical myometrial thickening
  - Globular shape
  - Ill defined endometrial/ myometrial interface
  - Linear striations Myometrial cysts Hyperechoic nodules
  - Increased junctional zone thickness on 3D  $\geq 8\text{mm}$
-



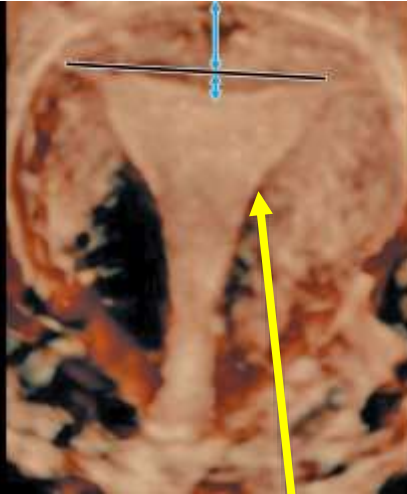
2022

Archana Baser

to Dr \* AKASH HOSPITAL, INDORE TIs  
8-01-11-9 LMP=10.01.2011 11.01.2018 6:43:31 PM DR. ARCH. Tib  
MI



Loss of  
endomyojunction



Normal  
endomyojunction





37 LMP=01.11.2023

Archana Baser

H939 LMP=22.10.2023

Dr. Anshu Baser

MI 1.1

RICS-

16H

B177°/V110°/.

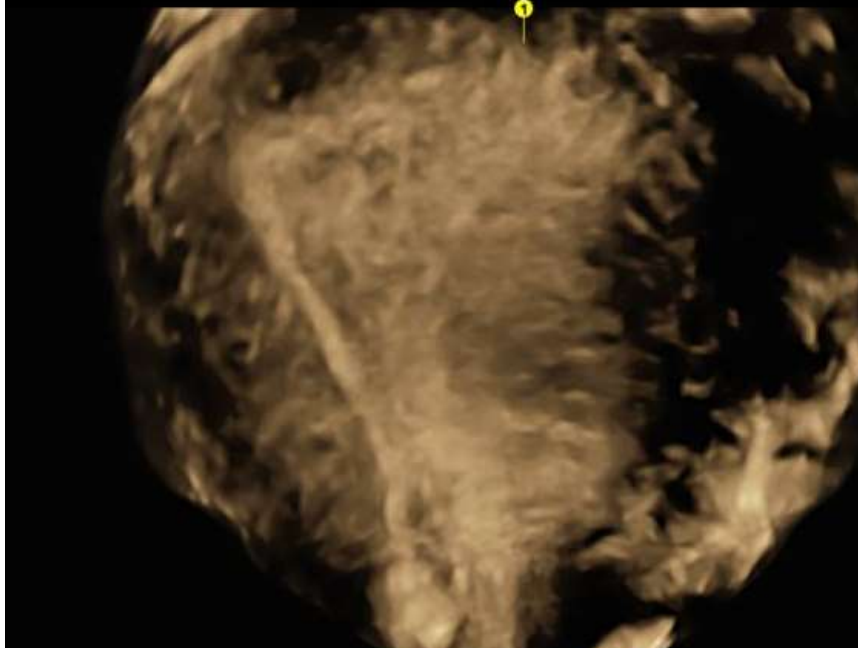
Gyn Rende

Qua

Mr

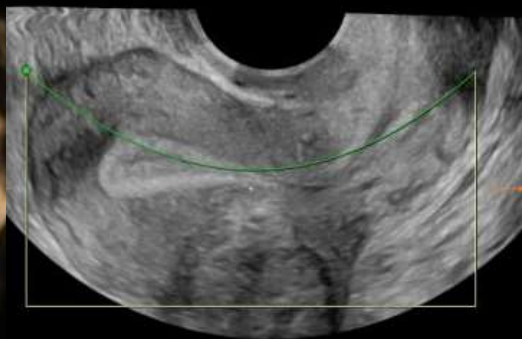
St

3D



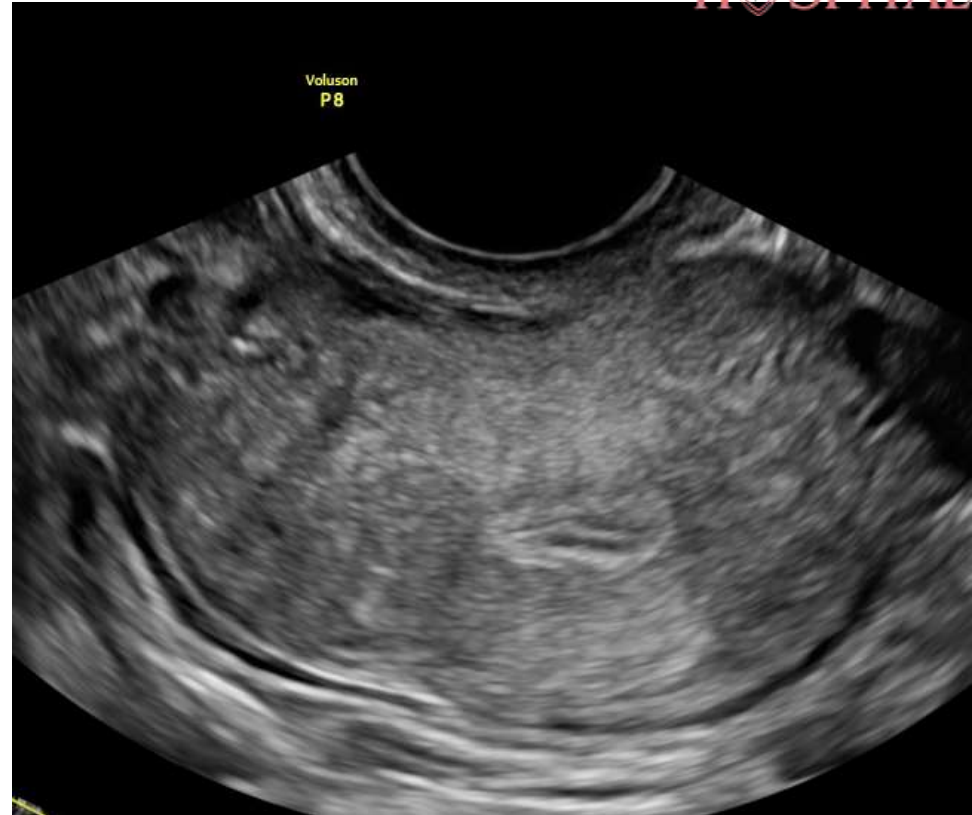
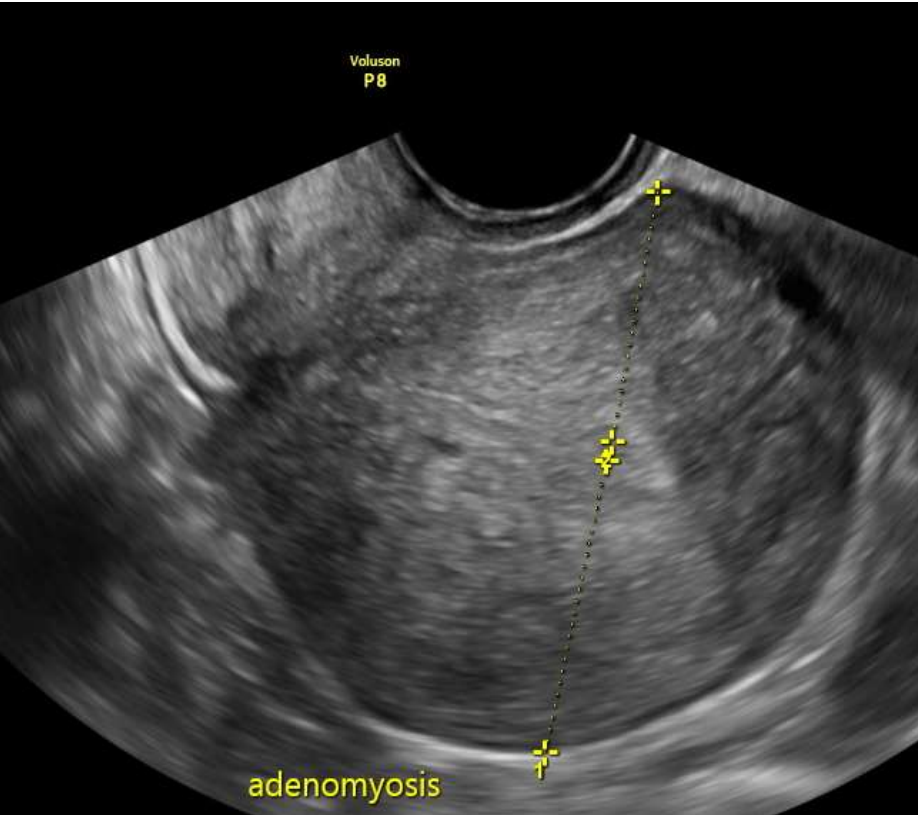
Loss of endomyojunction on

3D

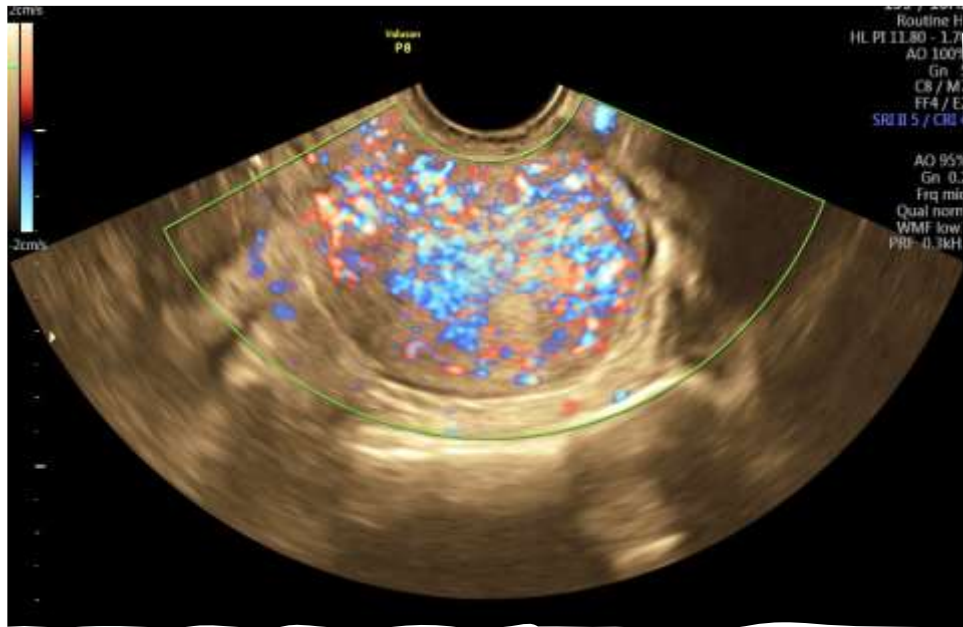


Normal endomyojunction on

3D

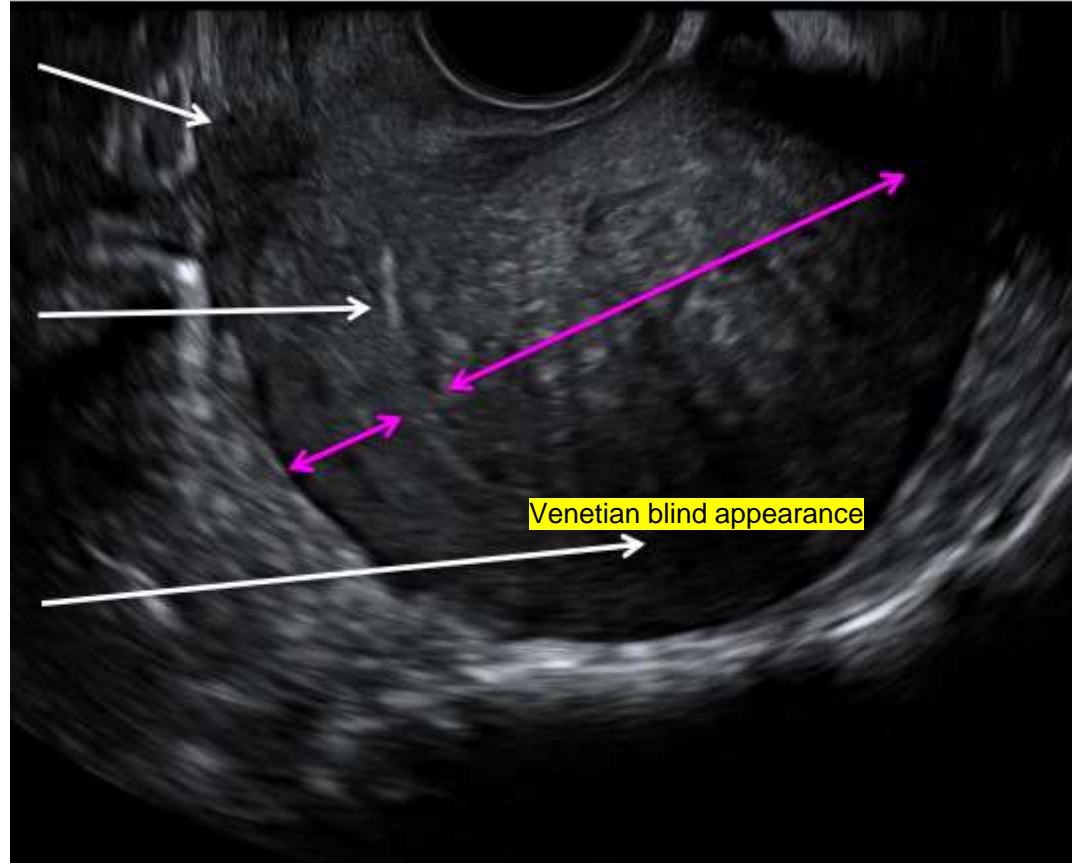


Spectrum Of Adenomyosis



# Adenomyosis

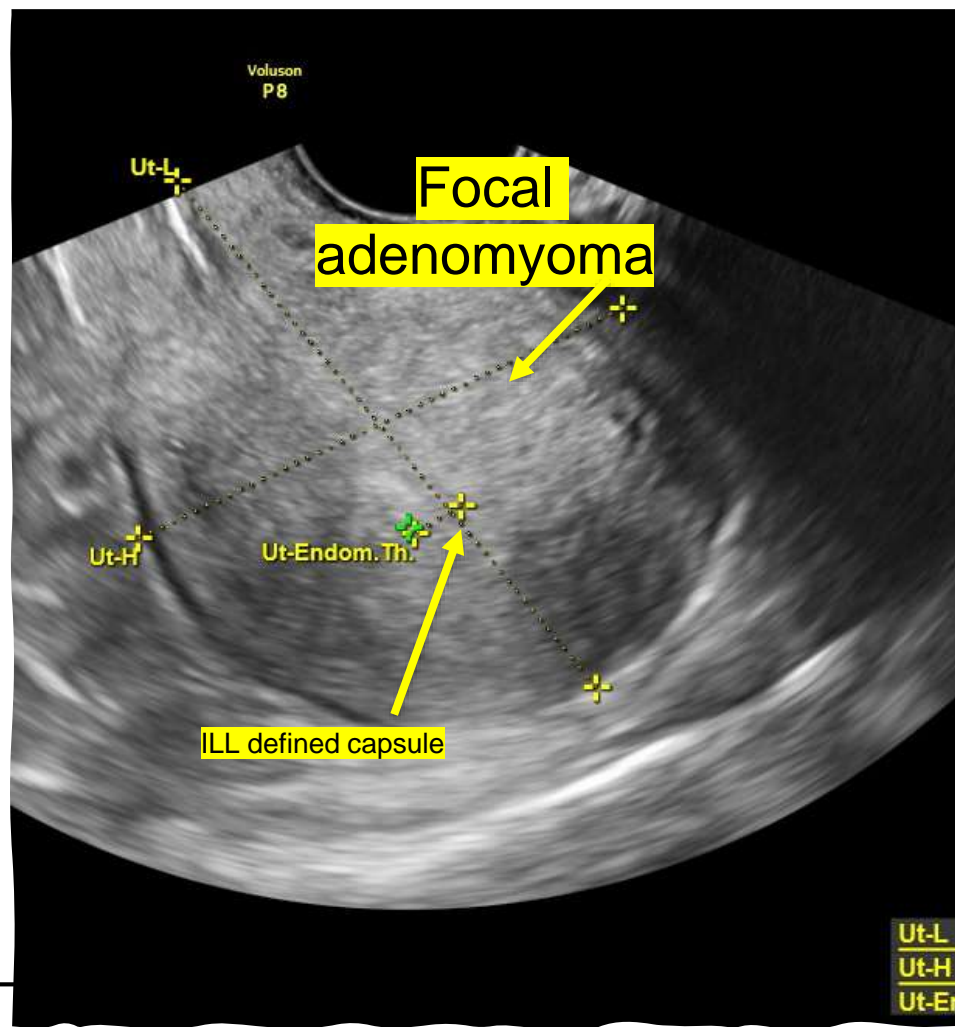
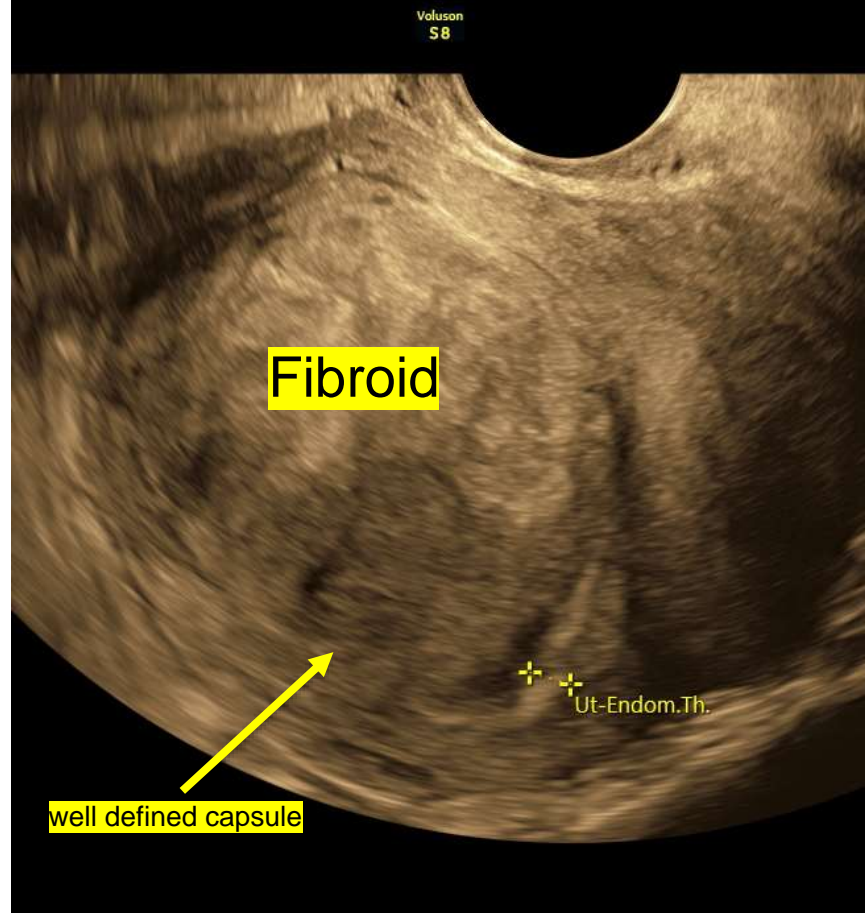
- 1) Globular Shape
- 2) Ill defined E-M junction
- 3) Linear striations
- 4) Myometrial asymmetry

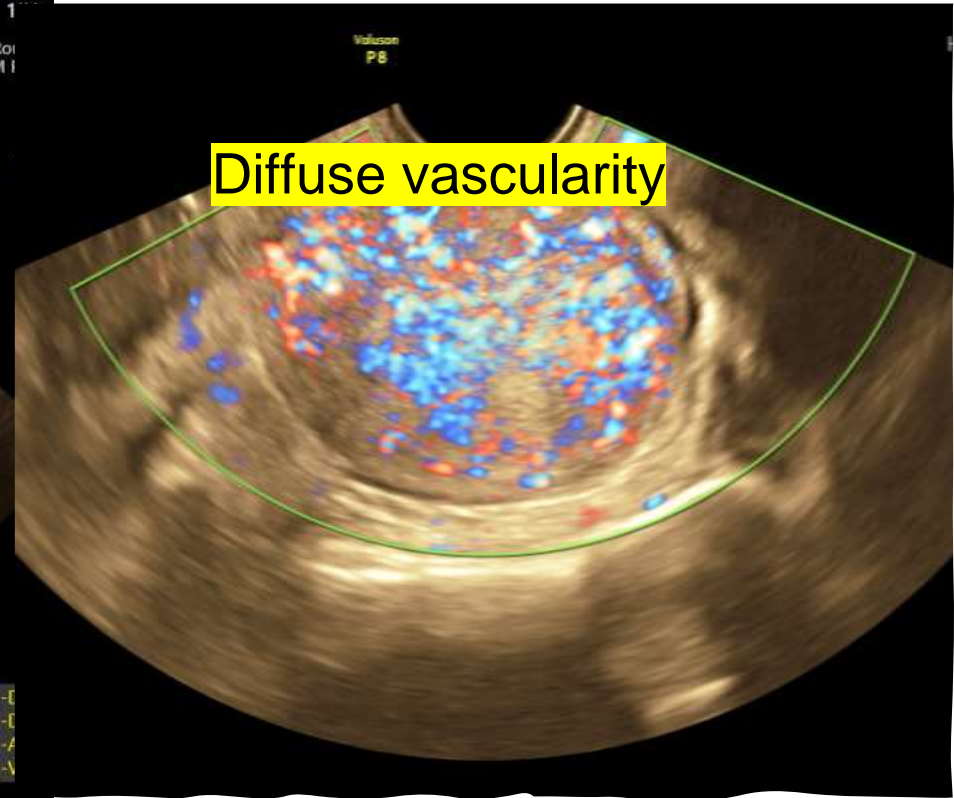
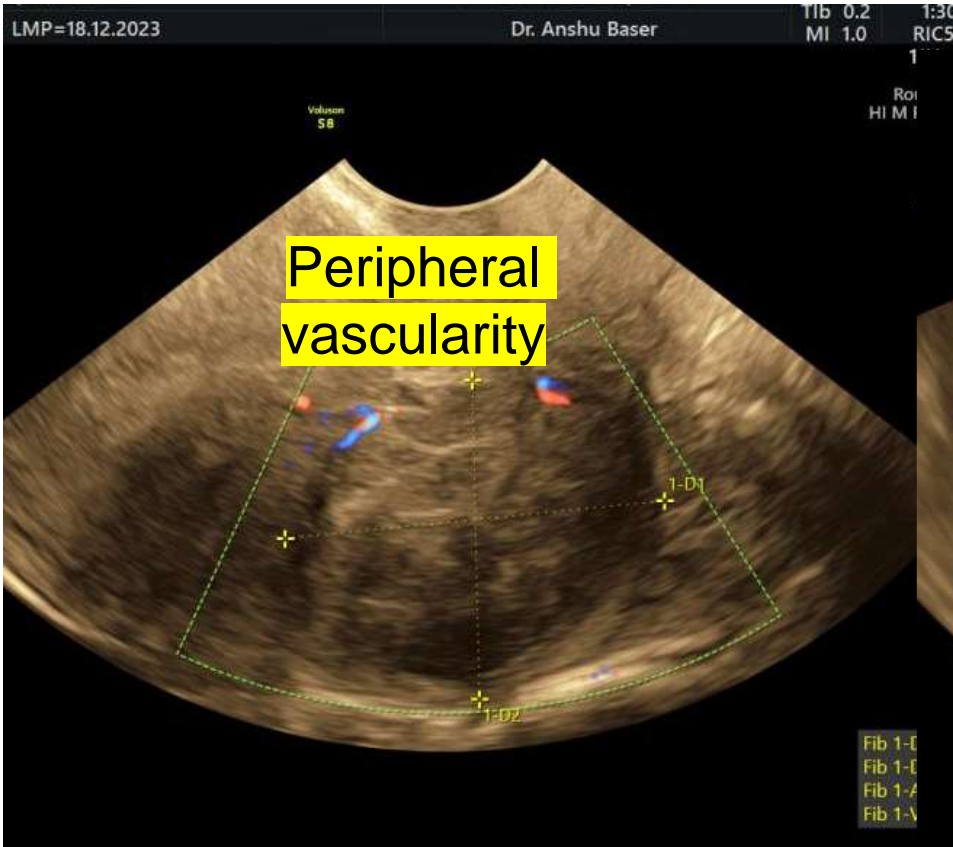


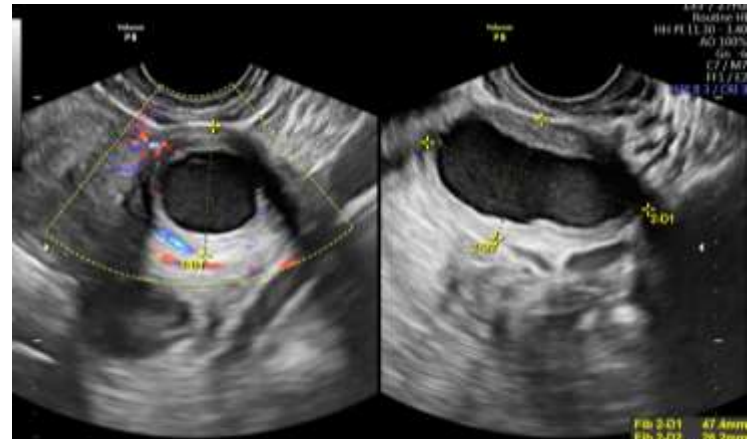
# Differentiating between fibroid and focal adenomyoma

- ILL defined
  - Central vascularity
  - Associated features of adenomyosis
  - (cyst, indistinct myometrial-endometrial junction)
  - No contour abnormality
  - No edge shadow.
-

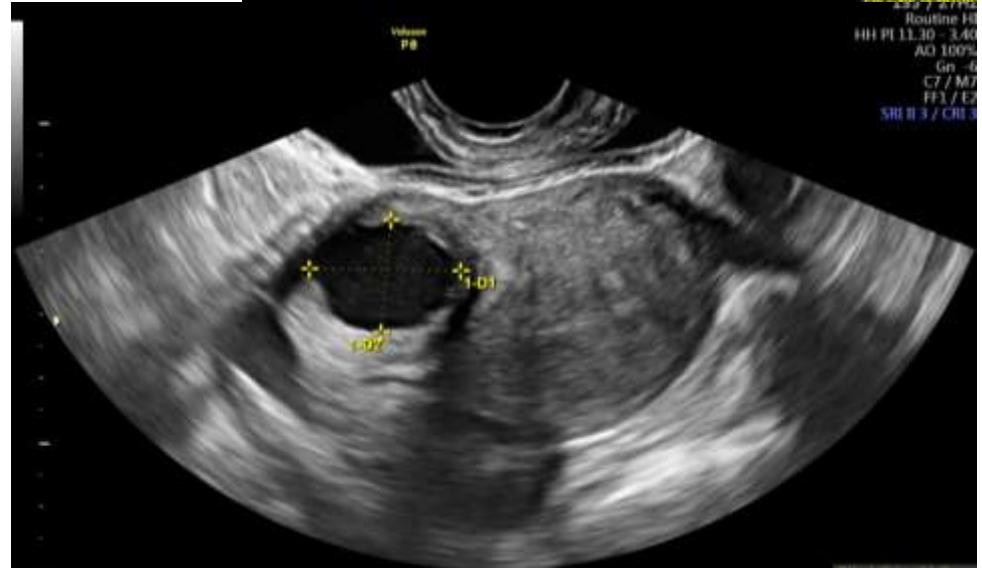








Fib 2-D1 47.4mm  
 Fib 2-D2 26.2mm  
 Fib 2-Avg 36.8mm  
 SRH II 3 / CRH 3



Routine H  
 HH PI 11.30 - 3.40  
 AO 100%  
 Gn -5  
 C7/M7  
 FF1/E2  
 SRH II 3 / CRH 3

Challenging cases  
 –Adenomyotic  
 cysts



## Learning points -

- *Adenomyosis is defined as the presence of ectopic endometrium within the myometrium.*
- • *MRI is an accurate tool for the diagnosis of adenomyosis and associated conditions.*
- • *Adenomyosis can be diffuse or focal.*
- • *The most established MRI finding is thickening of junctional zone exceeding 12 mm.*
- • *High-signal intensity myometrial foci on T2- or T1-weighted images are also characteristic.*

## Obstetrics and Gynaecological Ultrasound for Beginners

### Salient Features

- Selective core topics on obstetrics and gynaecological ultrasound for the beginners
- Plenty of ultrasound images to ease learning process
- Chapters written by national and international experts to make each chapter a guide for inexperienced ultrasound practitioners
- Reference book for ultrasound trainers as it is in question-answer format covering frequently-asked questions (FAQs) by the trainee
- A step by step guide to getting an optimum 3D/4D image and how to incorporate 3D/4D to improve your ultrasound assessment.

**Archana Baser** is one of the FOGSI members FOGSI is currently heading the Department of Obstetrics and Gynaecology at Akash Hospital, Indore, Madhya Pradesh, India. She is the past Vice President FOGSI, Organising Secretary ACOG 2022. She has a keen interest in Ultrasound. She is Chairperson SAFOG Imaging Science Committee and MCM Imaging Science Committee ACOG. She has trained at Harris Birthright Centre, London, UK and did overseas travelling fellowship in fetal medicine with Professor Charles Rodeck, University College Hospital, London. Ultrasound training is her passion. Her dream is to equip every gynaecologist with the power of ultrasound.



**Anshu Baser** is one is a Consultant, Department of Obstetrics and Gynaecology, Akash Hospital, Indore, Madhya Pradesh, India. She has keen interest in Obs/Gyne ultrasound. She has been involved in the FOGSI ultrasound training—the trainers program and organized many ultrasound workshops. She is the recipient of FOGSI Travelling Fellowship 2022 and FOGSI Mostel Award (Junior 2022). She has also been a part of organizing team of ACOG 2022, ISAR 2016. She played an active role at Indian Society for Assisted Reproduction (ISAR), 2016 in organizing ultrasound workshops at Indore.



**Alia K Zaidi** is one of the FOGSI members FOGSI was a previous consultant at Akash Hospital, Indore, Madhya Pradesh, India. She is presently working as a Specialist Obstetrics and Gynaecology at Naseem Medical Centre, Doha, Qatar. She has done her postgraduation from Medical College, Kolkata, West Bengal. A dedicated and committed individual to the field of obstetrics and gynaecology, her special interests include high-risk obstetrics, ultrasound and laparoscopic surgery. She has been actively involved in teaching and has contributed several publications in national and international journals.



**Heena Dhingra** is one was a past consultant at Akash Hospital, Indore, Madhya Pradesh, India. She is presently working as a Consultant Gynaecologist and Laparoscopic Surgeon at SGHS Multiphasic Hospital, Mohali, Punjab. She completed her postgraduation from Gandhi Medical College, Bhopal in 2014. She has received many awards including the best Paper and Poster Award in IOGCON 2016 and West Zone YUVA FOGSI quiz in 2013. Her special interests are high-risk pregnancy and ultrasound. She has a keen interest in academics and has several publications in national journals.



**Varsha Mahajan** is one is a consultant and ex-consultant at Akash Hospital, Indore, Madhya Pradesh, India. She is currently working at the Women's Clinic, Indore. She completed her postgraduation from Indira Gandhi Government Medical College, Nagpur, Maharashtra in 2010. Her special interests are laparoscopic surgery and high-risk pregnancy. She is a Co-Author in a chapter in the book Ultrasound in Multiple Pregnancy, a FOGSI publication.



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2<sup>nd</sup>  
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Obstetrics and Gynaecological Ultrasound for Beginners

Baser • Baser  
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# Obstetrics and Gynaecological Ultrasound for Beginners

Editor-in-Chief  
**Archana Baser**  
**Anshu Baser**

Co-Editors  
**Alia K Zaidi**  
**Heena Dhingra**  
**Varsha Mahajan**

2<sup>nd</sup>  
Edition



# Take home message

TV U/S accurate at assessing endometriomas

- Severity of symptoms does not correlate with extent of disease
  - Identifying an endometrioma – likely that there is further sites of pelvic endometriosis
  - ‘Kissing ovaries’ associated with extensive pelvic adhesions
  - Adenomyosis is usually under reported
  - Assessment of pelvic mobility can indicate adhesions
-

# To Summarize Imaging modalities

With current improved high resolution scanning it is now possible to diagnose most of endometriotic lesions.

Addition of colour doppler helps in scoring and detecting endometriosis and differentiate it from malignancy

---

## Summary

TVS is accurate at assessing severe endometriosis (DIE) when performed by experienced operators

- More appropriate referral to a tertiary referral endometriosis centre will ensure safer management
-

—  
**THANKS.**



**Your Voice.  
Your Choice.  
Your FOGSI.**

**Vote dr Archana Baser  
for FOGSI President  
Election Year 2026.**

With your support, let's shape a  
stronger, more progressive  
future for women's health.



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P8

VP8000994-20-09-29-6 LMP=22.09.2020

29.09.2020

1:31:19 PM

DR. ARCH.

Tib 0.2  
MI 1.3GYN  
6.0cm / 1.2

135° / 33Hz

Routine HI

HM PI 11.80 - 2.50

AO 100%

Gn -4

C6 / M7

FF4 / E2

SRI II 5 / CRI 4

Voluson  
P8

adenomyosis

1 D 2.72cm  
2 D 2.32cm

