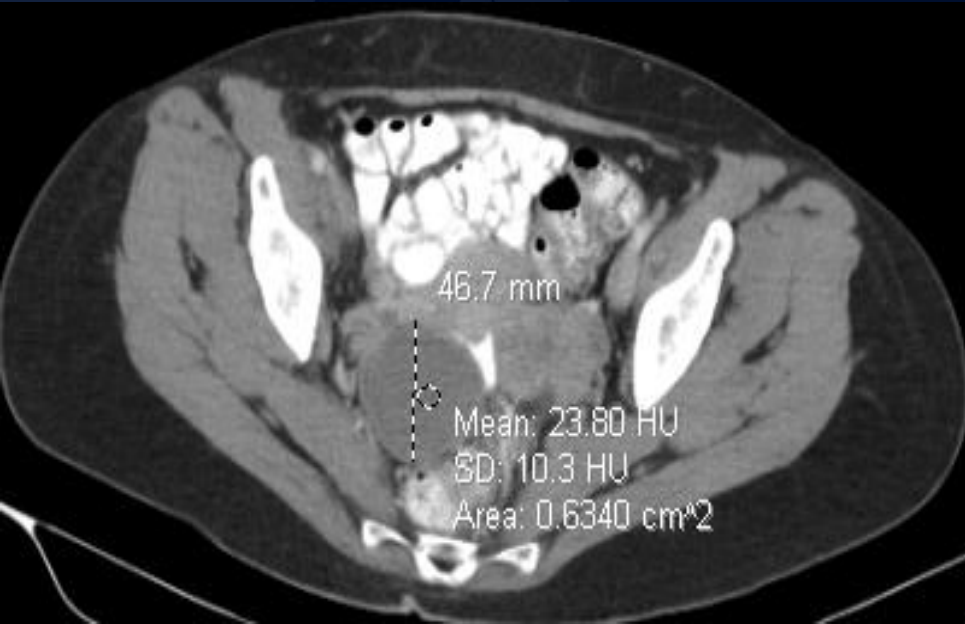


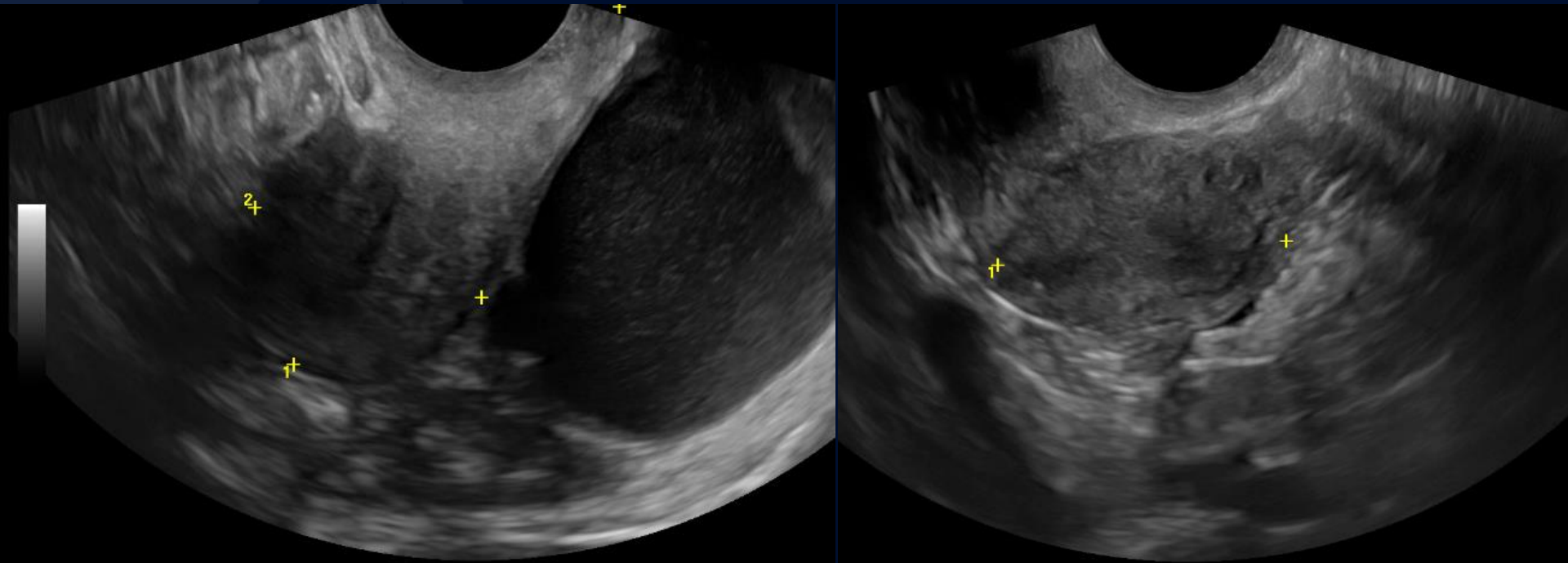
52-year-old female with  
dermatomyositis presenting with  
5 days of worsening dysphagia

Padmini Karamchedu, MS3

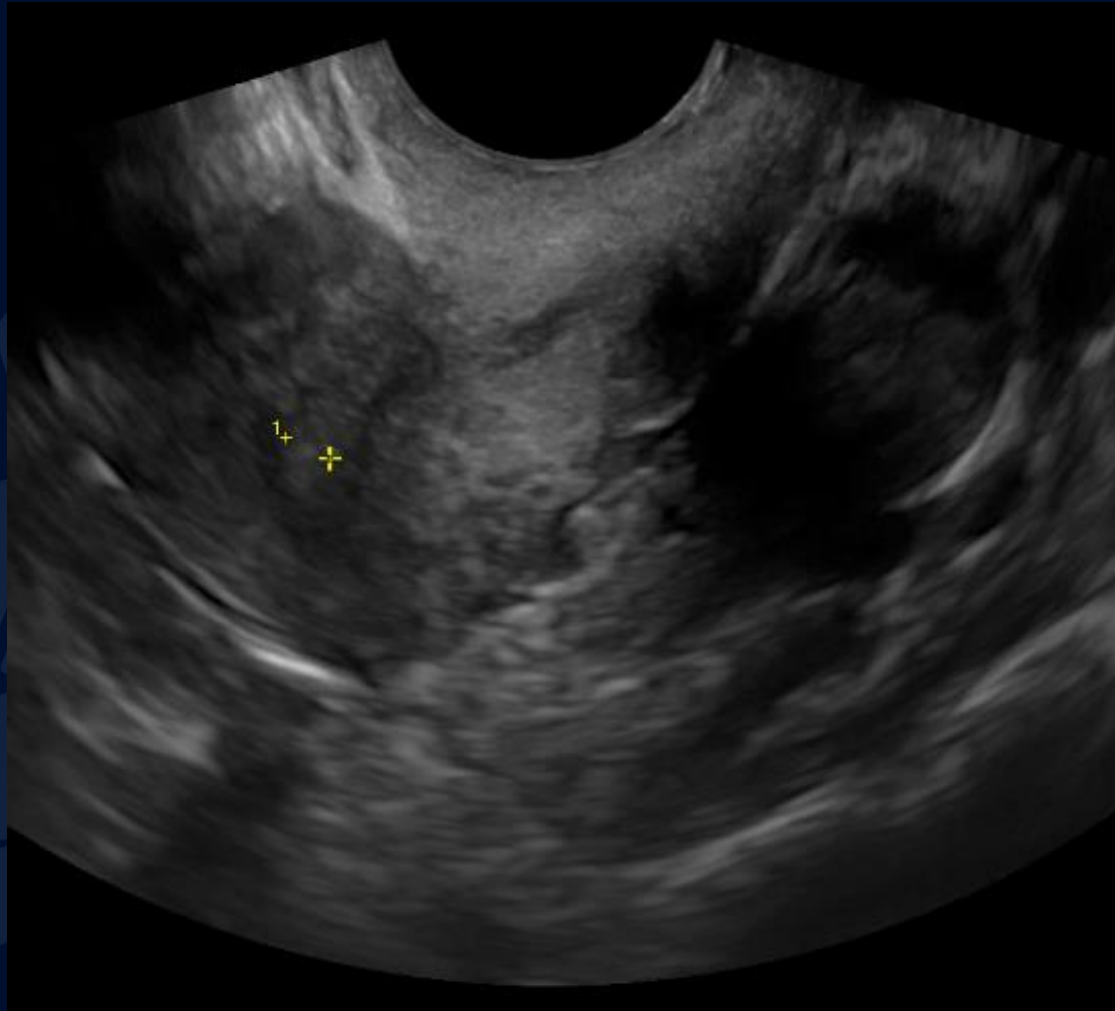
# CT IV Contrast



# Transvaginal Ultrasound

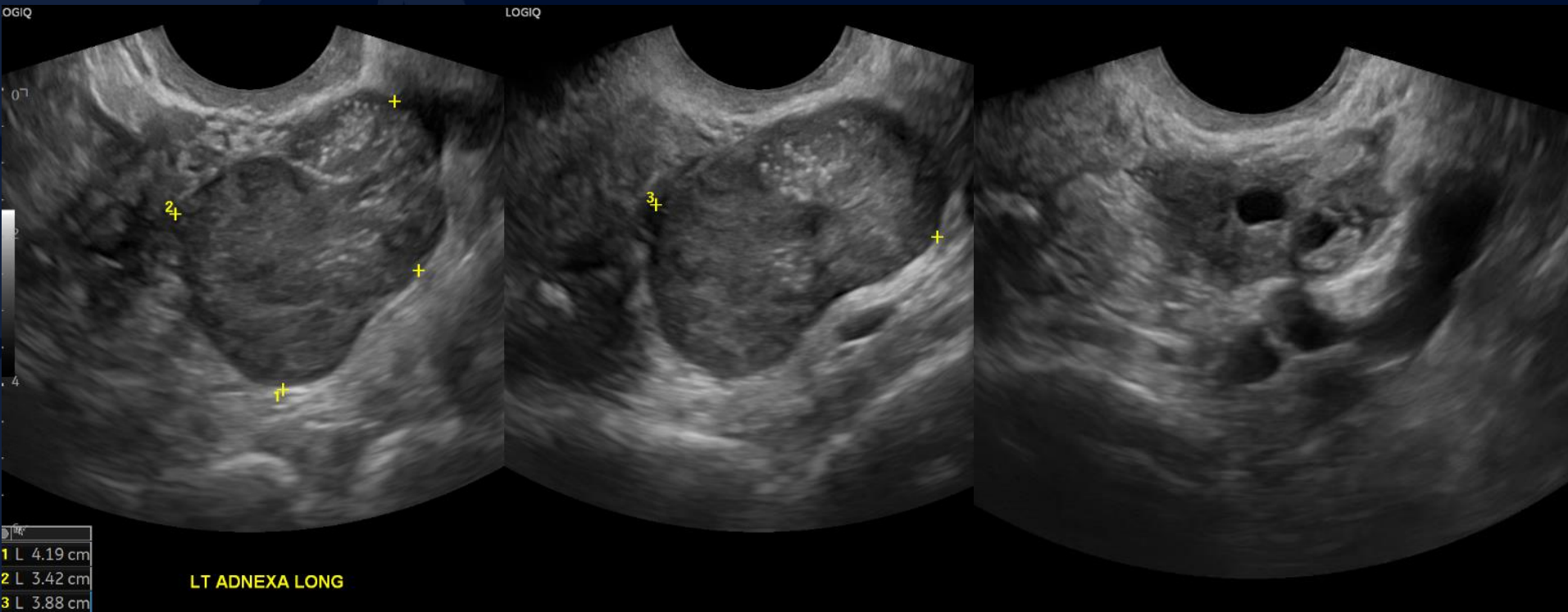


# Transvaginal Ultrasound



Endometrium longitudinal view

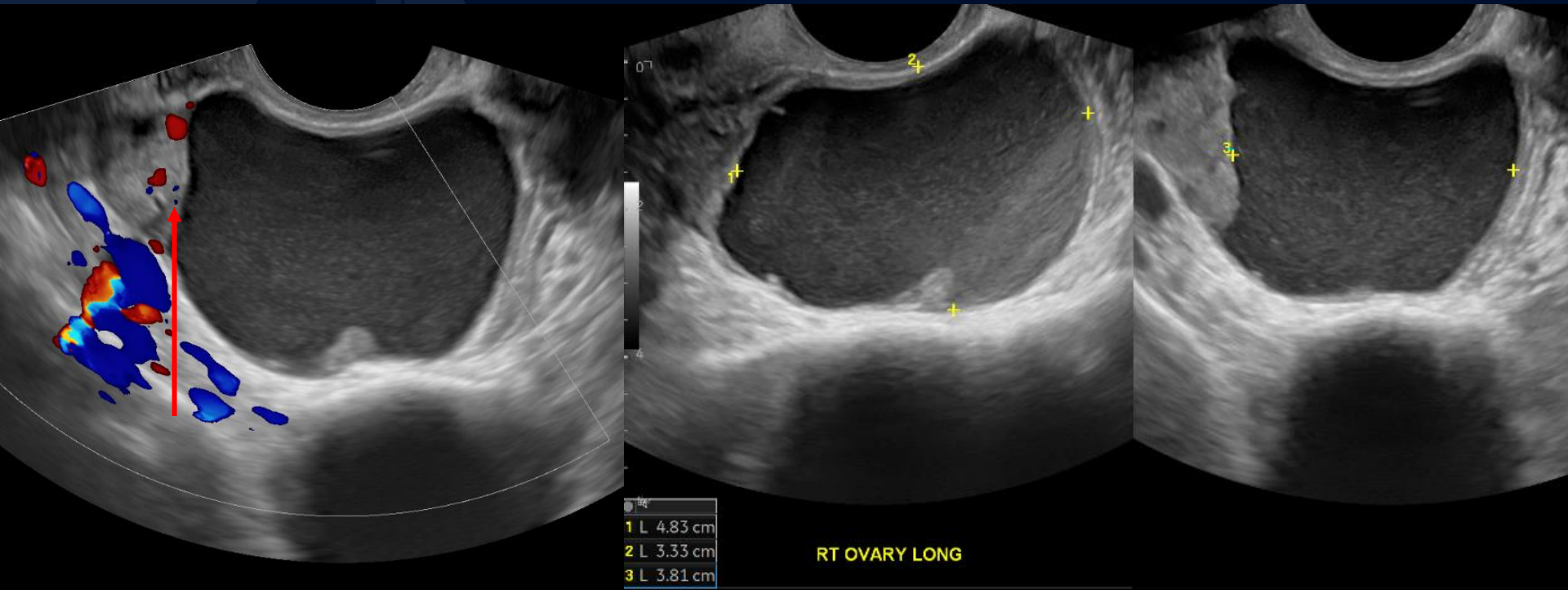
# Transvaginal Ultrasound



Adnexa longitudinal view

Adnexa transverse view

# Transvaginal Ultrasound



A large, stylized oak leaf graphic in a dark blue color, positioned on the left side of the slide. The leaf has a prominent central vein and several smaller veins branching off it. The leaf's edge is serrated.

?

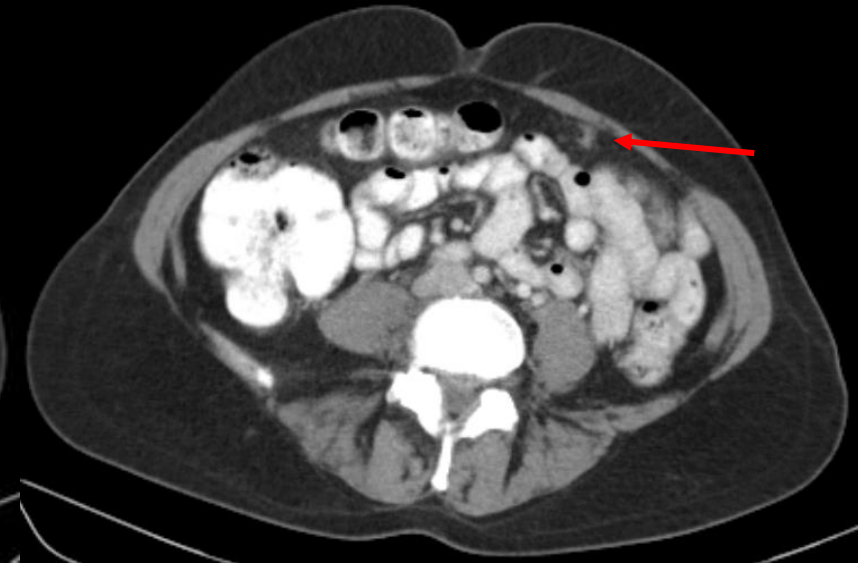
# High-grade Serous Ovarian Carcinoma



# CT IV Contrast

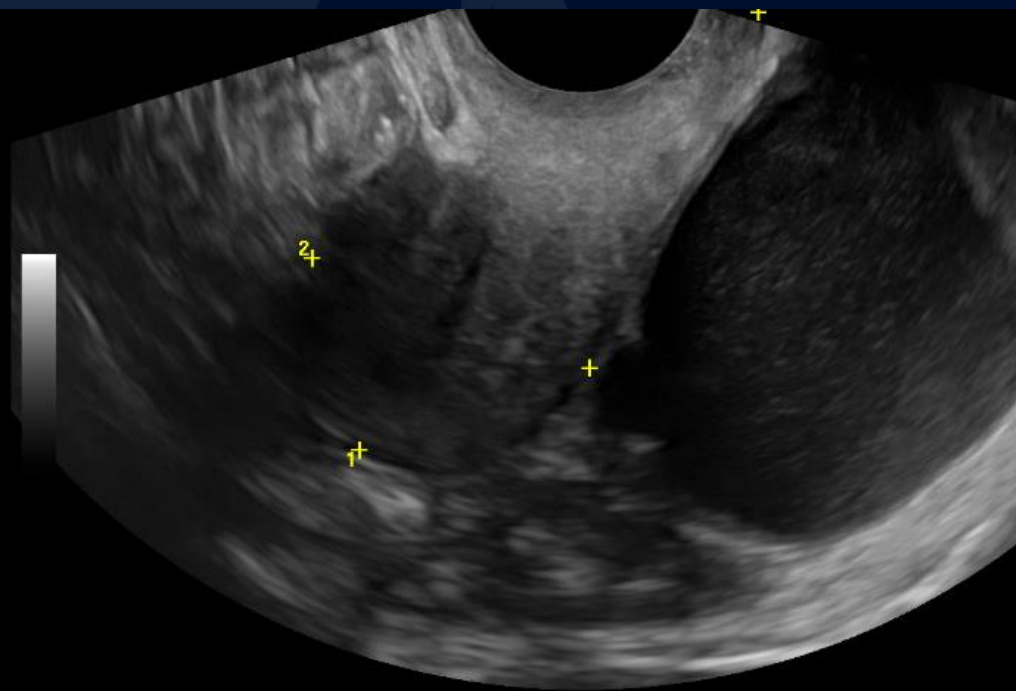


Right ovarian mass

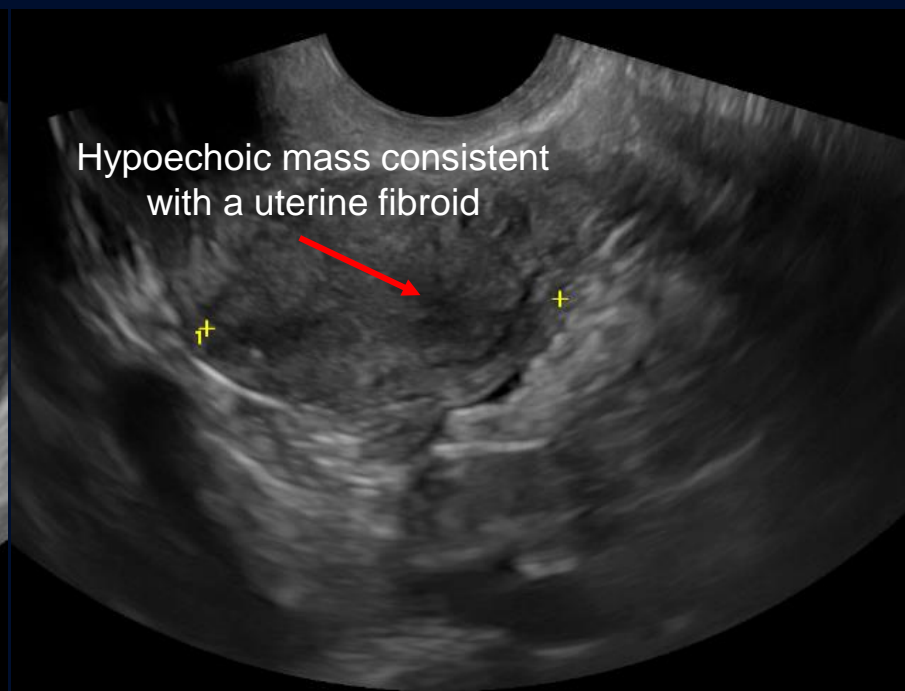


Solid soft tissue nodule in the omentum

# Transvaginal Ultrasound

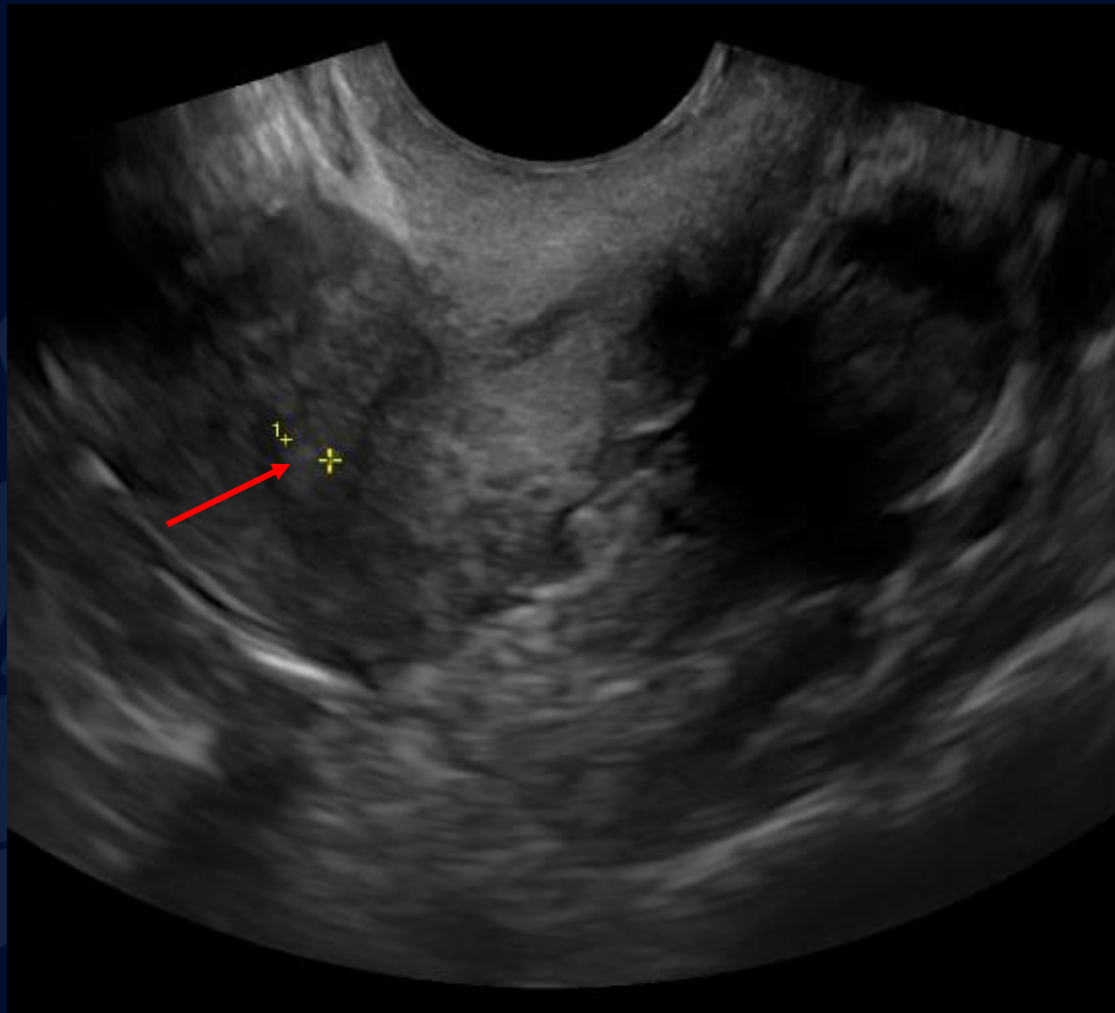


Uterus longitudinal view



Uterus transverse view

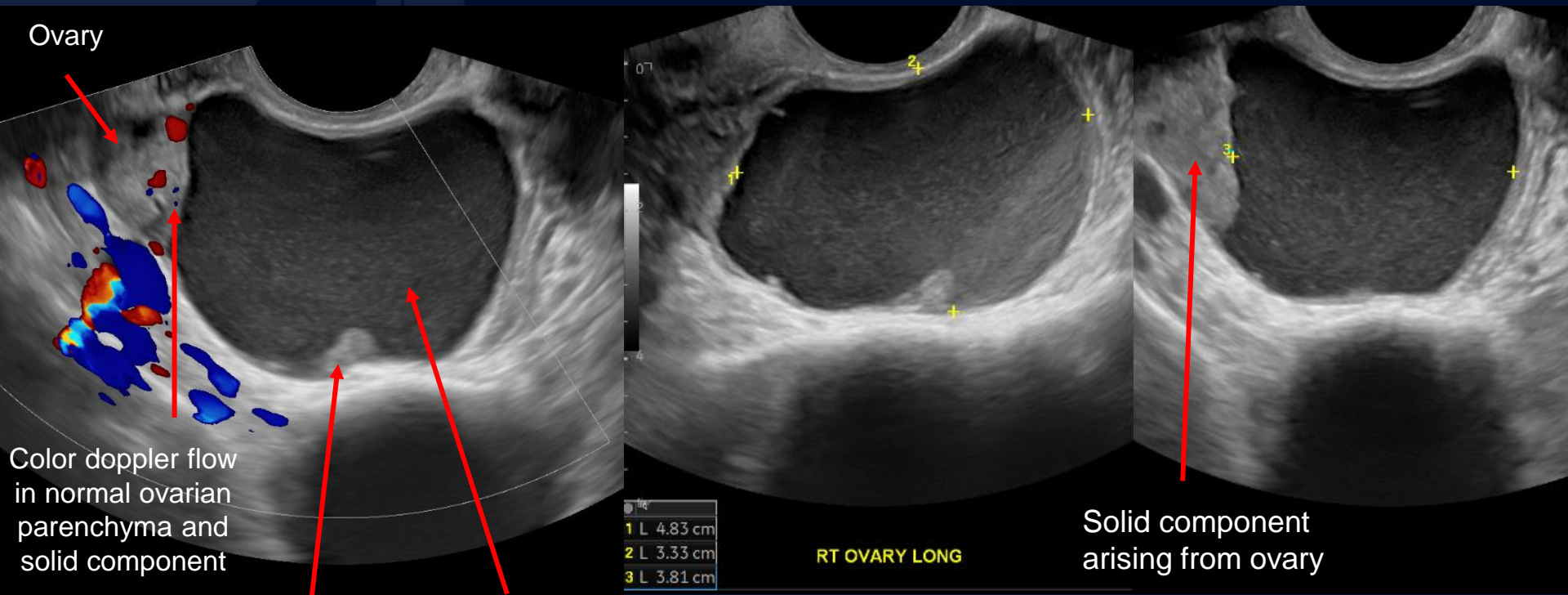
# Transvaginal Ultrasound



Endometrial  
stripe measuring  
0.36 cm

Endometrium longitudinal view

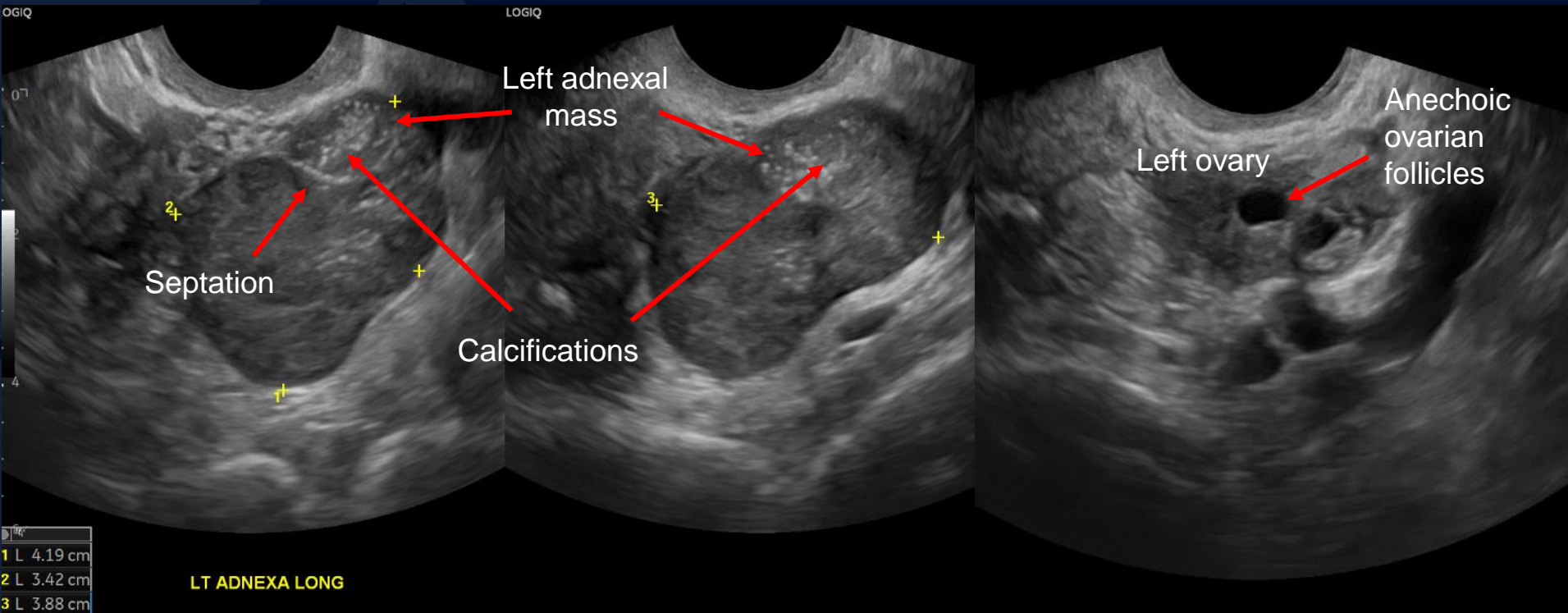
# Transvaginal Ultrasound



Hyperechoic papillary projection

Diffuse internal low-level echoes

# Transvaginal Ultrasound



Adnexa longitudinal view

Adnexa transverse view

# Ultrasound Features of Adnexal Masses

## Ovarian malignancy

- Part cystic and solid masses, papillary projections, acoustic shadows, ascites
- Often bilateral
- Color doppler flow in solid components

## Endometrioma

- Unilocular cyst containing homogeneous low level echoes d/t internal hemorrhagic debris
- No color doppler flow

## Ovarian cysts

- Anechoic
- Posterior acoustic enhancement
- Imperceptible wall

# High-grade Serous Carcinoma

- Dermatomyositis is associated with ovarian cancer, breast cancer, melanoma and non-Hodgkin lymphoma
- Case studies of patients with new onset dermatomyositis found to have ovarian cancer, therefore thorough workup for malignancy is recommended in patients with new onset dermatomyositis
- Bilateral adnexal masses with features suspicious for malignancy in the setting of new or worsening dermatomyositis, surgical intervention is indicated

# References

- Field C, Goff BA. Dermatomyositis - key to diagnosing ovarian cancer, monitoring treatment and detecting recurrent disease: Case report. *Gynecol Oncol Rep.* 2017 Nov 28;23:1-3. doi: 10.1016/j.gore.2017.11.009. PMID: 29255784; PMCID: PMC5725216.
- Oldroyd A, Sergeant JC, New P, et al. The temporal relationship between cancer and adult onset anti-transcriptional intermediary factor 1 antibody-positive dermatomyositis. *Rheumatology (Oxford)* 2019; 58:650.
- Van Holsbeke C, Van Calster B, Guerriero S et al. Endometriomas: Their Ultrasound Characteristics. *Ultrasound Obstet Gynecol.* 2010;35(6):730-40. [doi:10.1002/uog.7668](https://doi.org/10.1002/uog.7668) -