



kairuki_ivf



TRAINING ON INFERTILITY AND ASSISTED REPRODUCTION AT KAIRUKI GREEN IVF



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ROLE OF ULTRASOUND IN FERTILITY TREATMENT:



- INTRODUCTION
- REASONS OF ULTRASOUND PRIOR/DURING IVF TREATMENT.
- TECHNIQUES ON HOW TO PERFORM ULTRASOUND SCAN.
- SUMMARY.





MEANING OF ULTRASOUND

Diagnostic- Imaging modality that uses high frequency sound waves (above 20,000HZ) to produce body image.

Treatment-Technique where by an ultrasound beam is brought to a tight focus in the fibroid and adenomyosis heating up the tissue within and destroying the diseases tissue without causing any harm to the surrounding tissue.

Ultrasound over other imaging modality during IVF.

- a. No ionizing radiation exposure.
- b. Shows movements of body internal organs as well as blood flowing through blood vessels.
- c. Body organs are captured in real time.



REASONS FOR DOING ULTRASOUND :

Prior ivf treatments

- ❖ Baseline screening ultrasound to assess pelvic (treatment, dosage any other information before ivf treatment).
- ❖ Saline infusion sonograms.
- ❖ Trans abdominal ultrasound can be needed with any of the above.

During ivf treatment

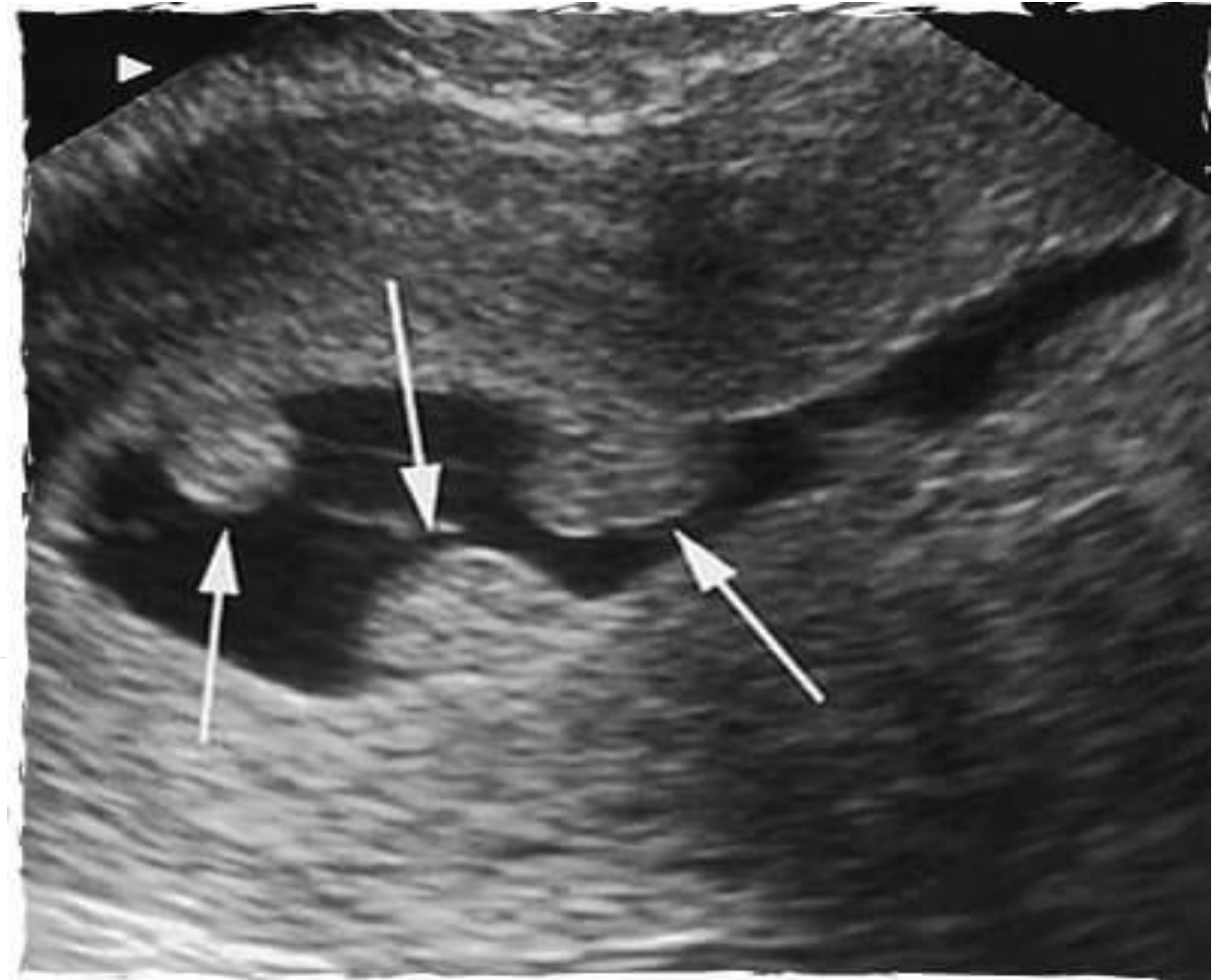
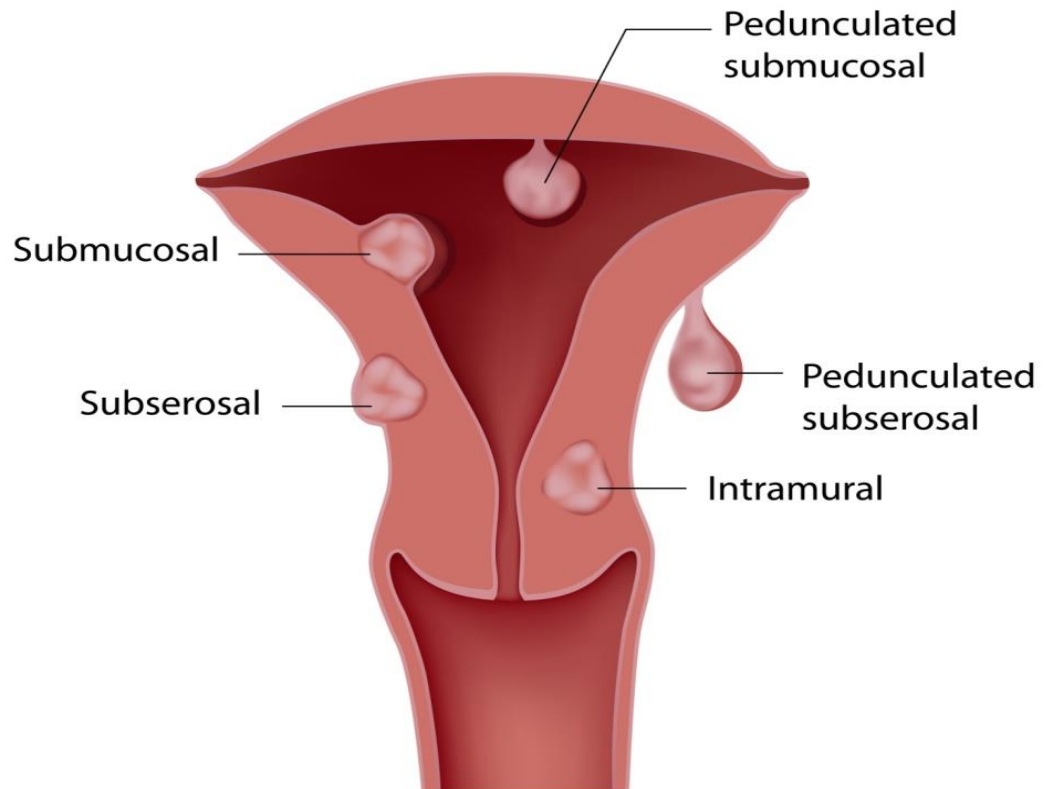
- ❖ AFC counting .
- ❖ Egg retrieval (collection).
- ❖ Lastly during embryo transfer (trans abdominal with the help of full urinary bladder)



COMMON ANOMALIES

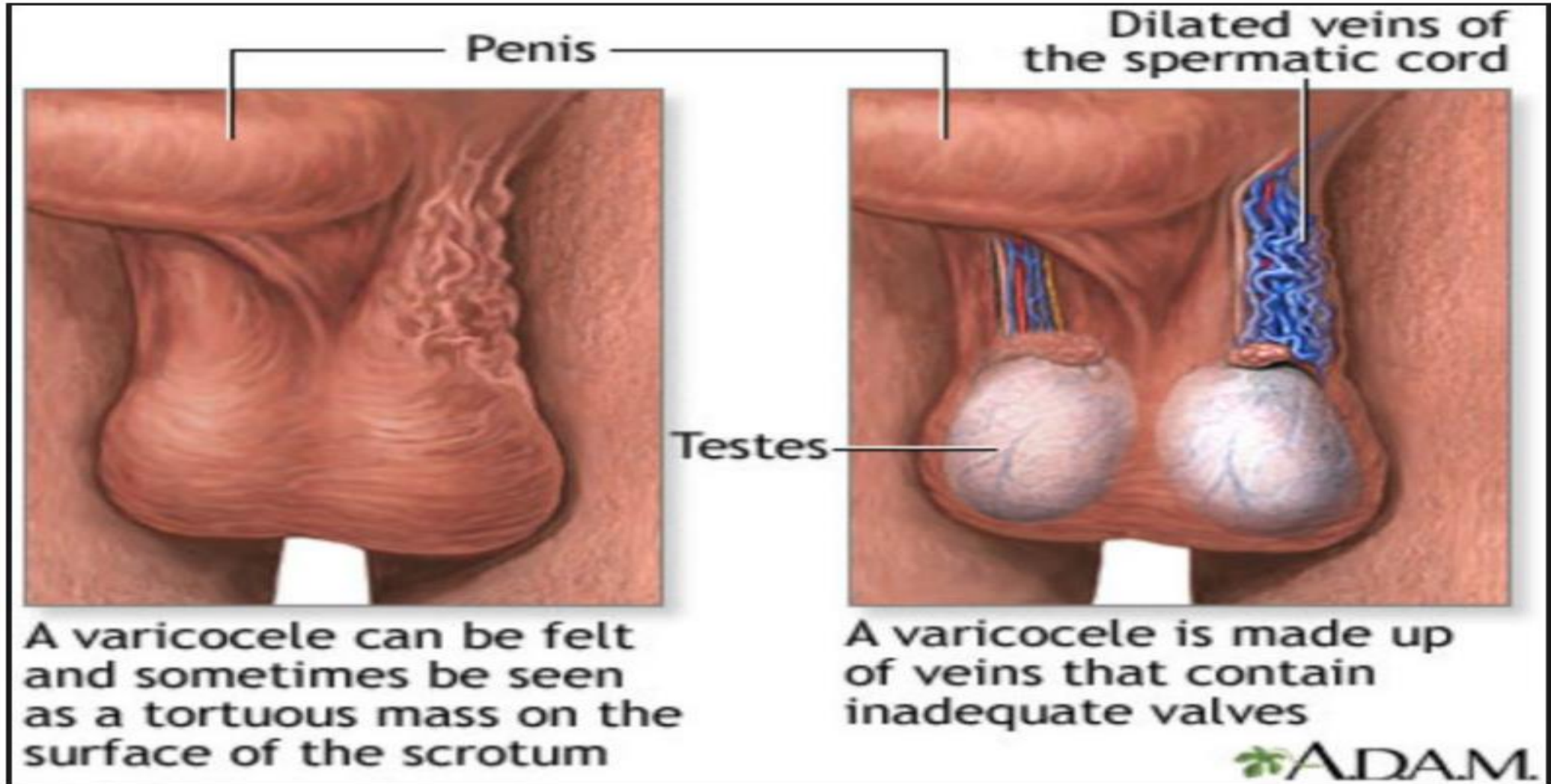
FEMALE CLIENTS

Uterine fibroids



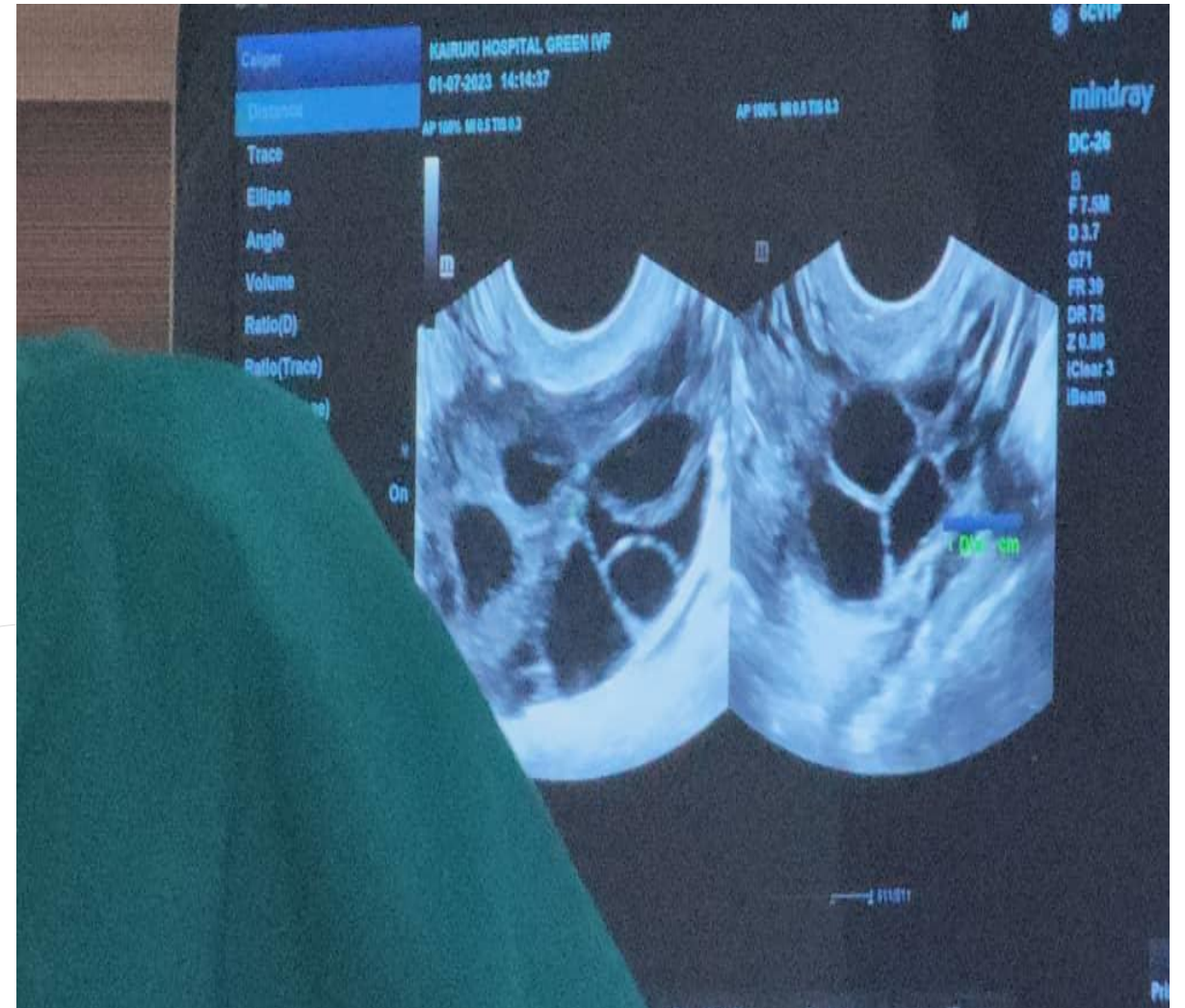


MALE CLIENT



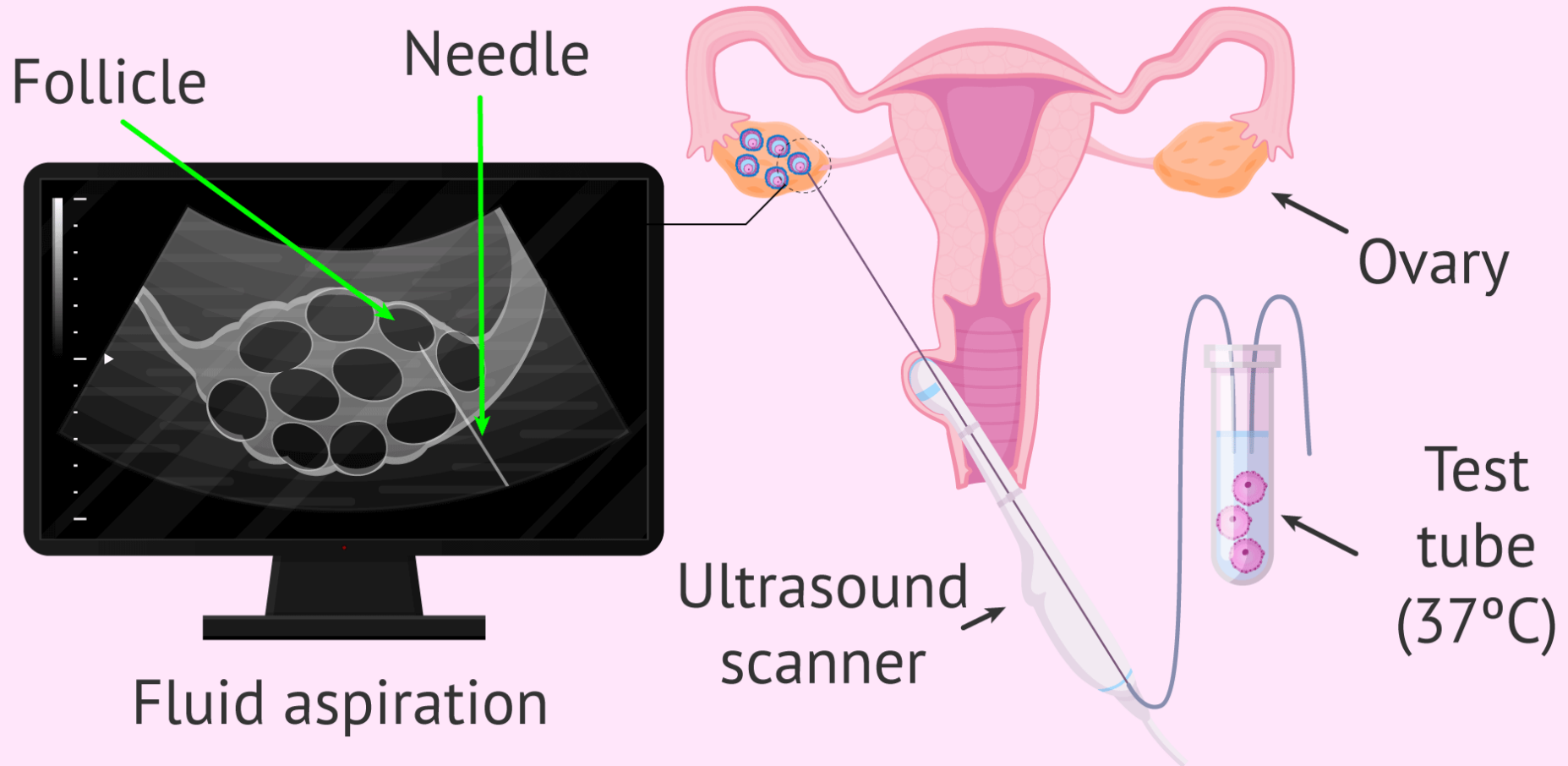


During IVF treatments: AFC



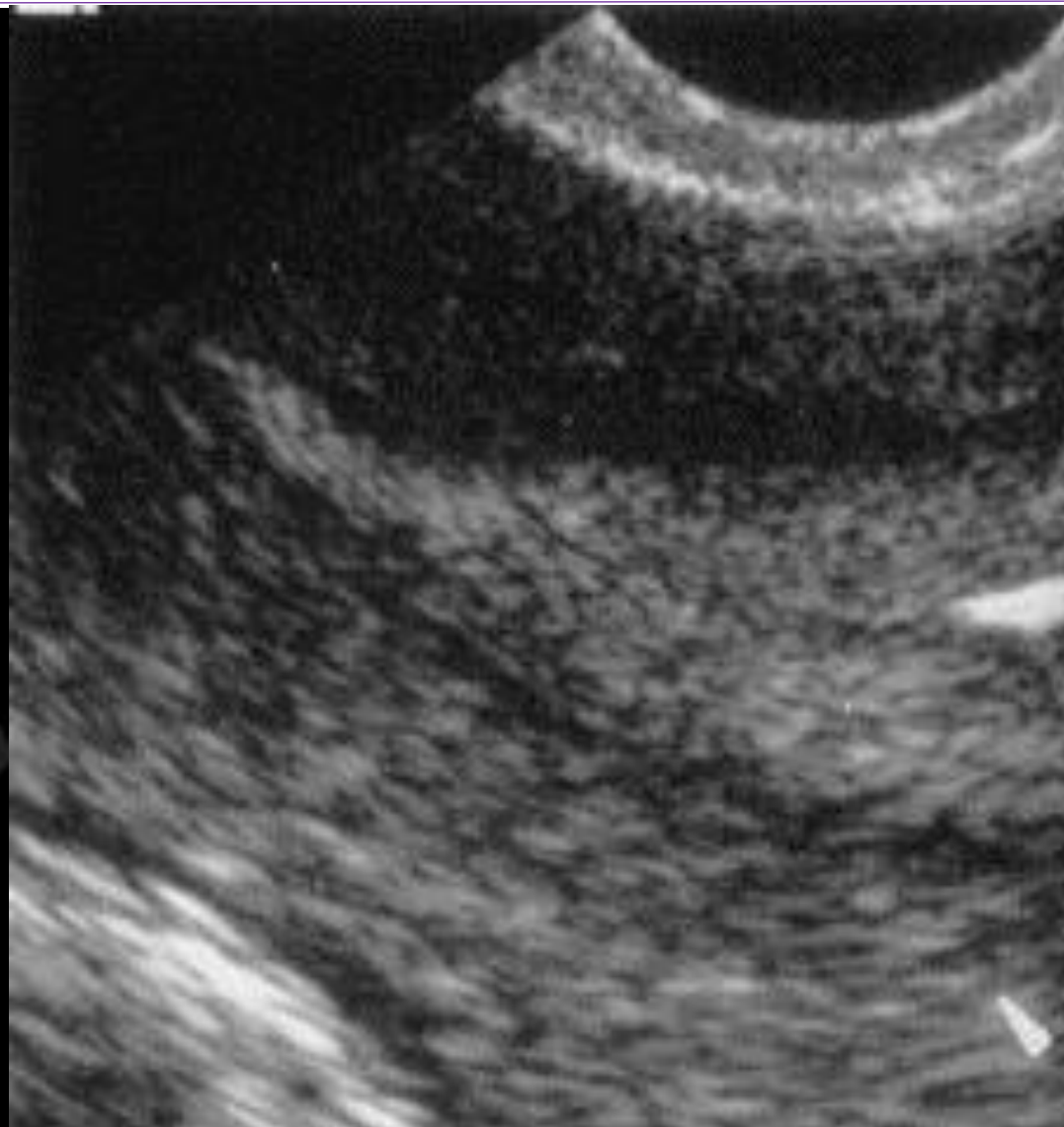
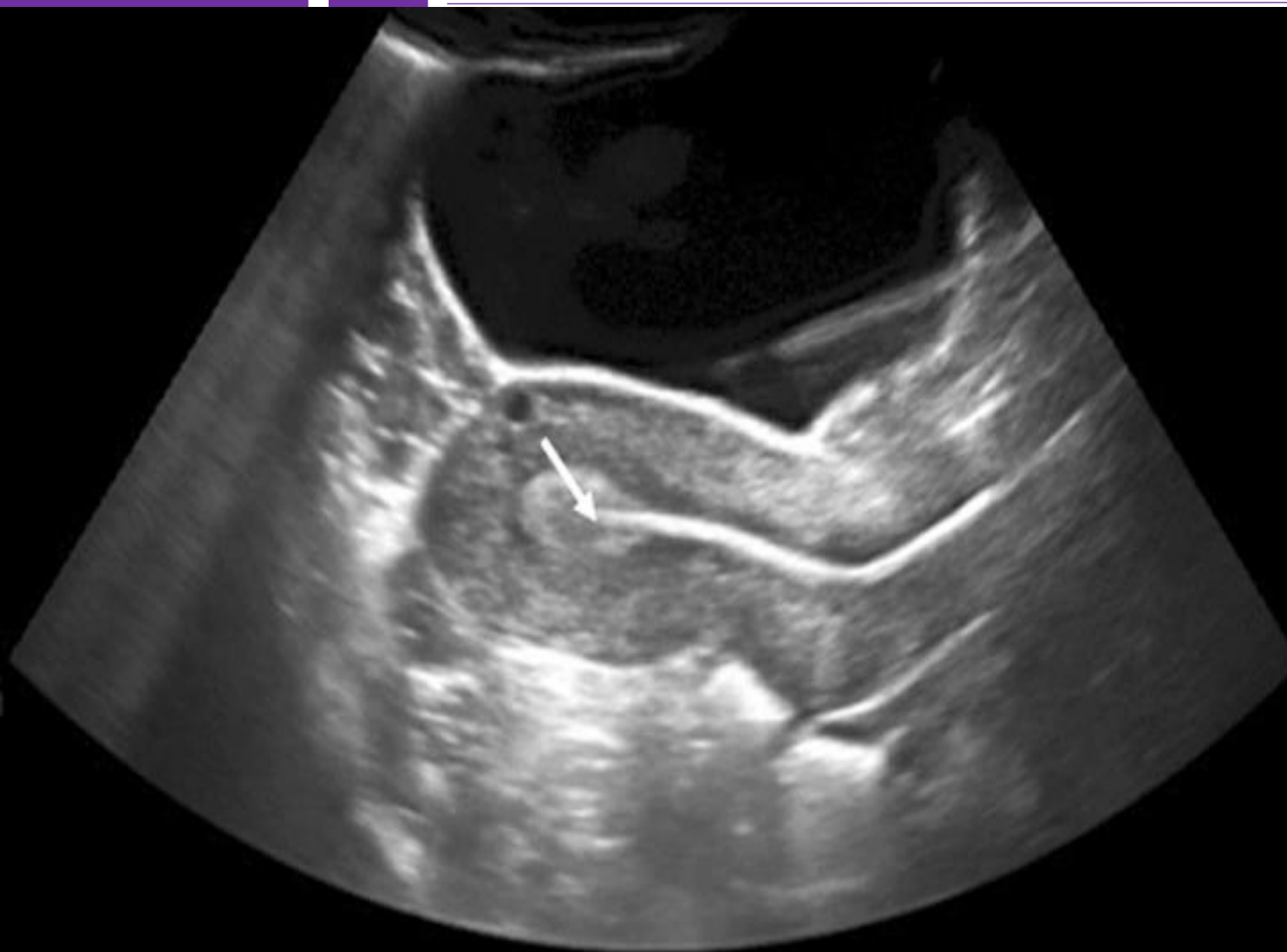


Egg retrieval





During ET





ULTRASOUND TECHNIQUE DURING RAT IN IVF





Summary

- ❖ Trans vaginal ultrasound scan is mandatory for ladies during IVF treatments.
- ❖ Monitoring of follicle development in the ovaries and track stages of growth prior to extraction is necessary.
- ❖ Viewing inside the ovaries to help withdraw follicles/eggs for later implantation is necessary.
- ❖ Trans abdominal guided procedure during IVF embryo transfer is mandatory.





REFERENCES.

- ❖ Infertility and ultrasound for practicing gynecologist by Sonal Panchal.
- ❖ Infertility and gynecology 2nd edition by Sonal Panchal and Chaitanya Nagori.
- ❖ Remohil et al 2017.
- ❖ Ultrasound Imaging in Reproductive Medicine by Laurel A Stadtmauer, Ilan Tur-Kaspa 2nd edition.
- ❖ Trans vaginal sonography 3rd edition by Asim Kurjak. Jose Baje Arenas.



THANK YOU



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