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KARNATAKA RADIOLOGY EDUCATION PROGRAM

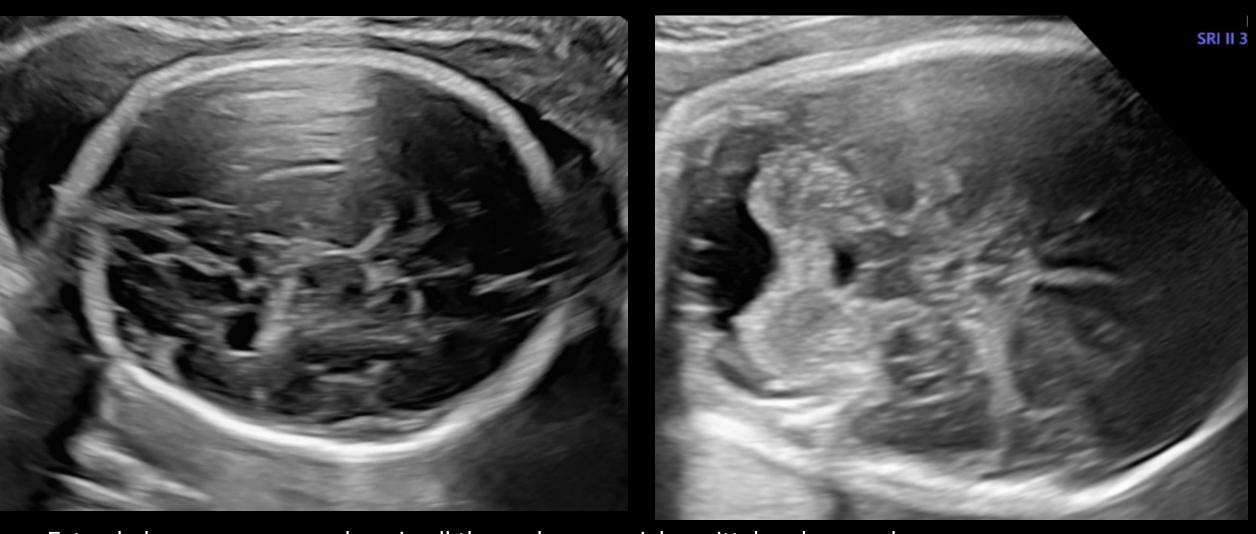
# DEPT. OF RADIODIAGNOSIS, JJMMC, DAVANGERE

Mentor: Dr. Sowmya J, Assistant professor

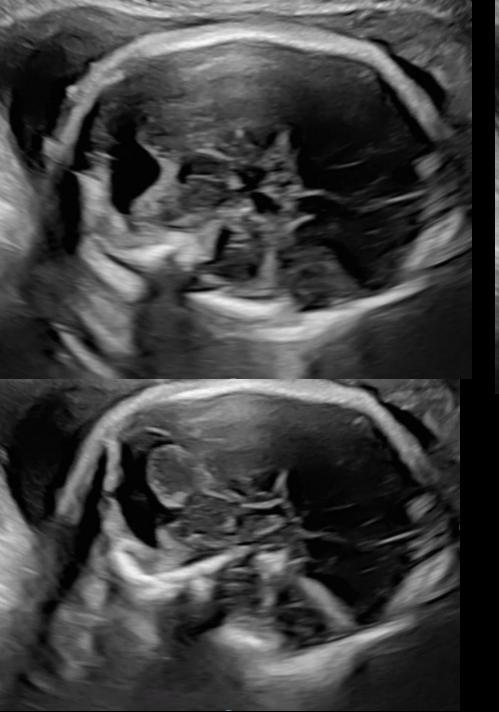
Presenter: Dr. Rachana, PG Resident

#### Case 1

- 30 year G2P1L1
- LMP 21/09/2024
- Dating/ NT scan done at 12w 6d shows single live intrauterine gestation with GA assigned as per LMP (LMP EDD: 28/06/2025).
- Anomaly scan done at 21w 4d was normal (outside)
- Growth scan done at outside centre, at 29w 4d, showed a posterior fossa cyst-? Mega cisterna magna/ Blake pouch cyst/ vermian hypoplasia.
- Patient was referred to our department for fetal NSG to characterize the cyst.

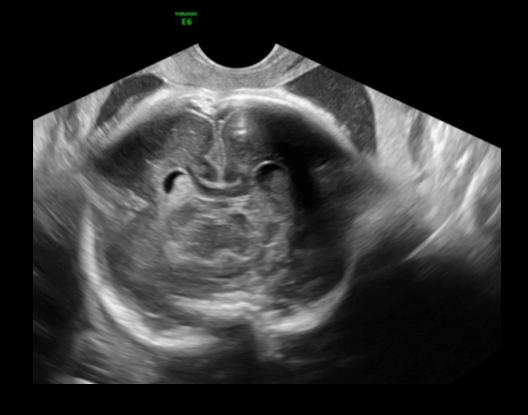


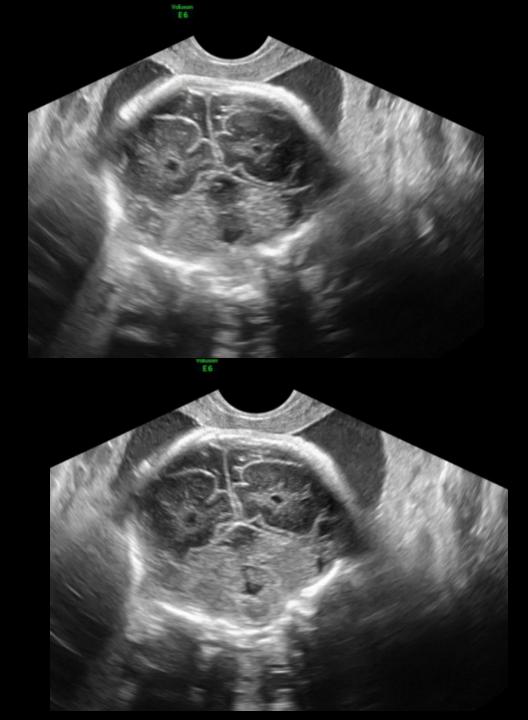
Extended neurosonogram done in all three planes: axial, sagittal and coronal





Axial sweep of the fetal brain shows, a cystic structure in the posterior fossa in the retrocerebellar region not communicating with the 4th ventricle. The bilateral cerebellar hemisphere and midline echogenic vermis is visualised.

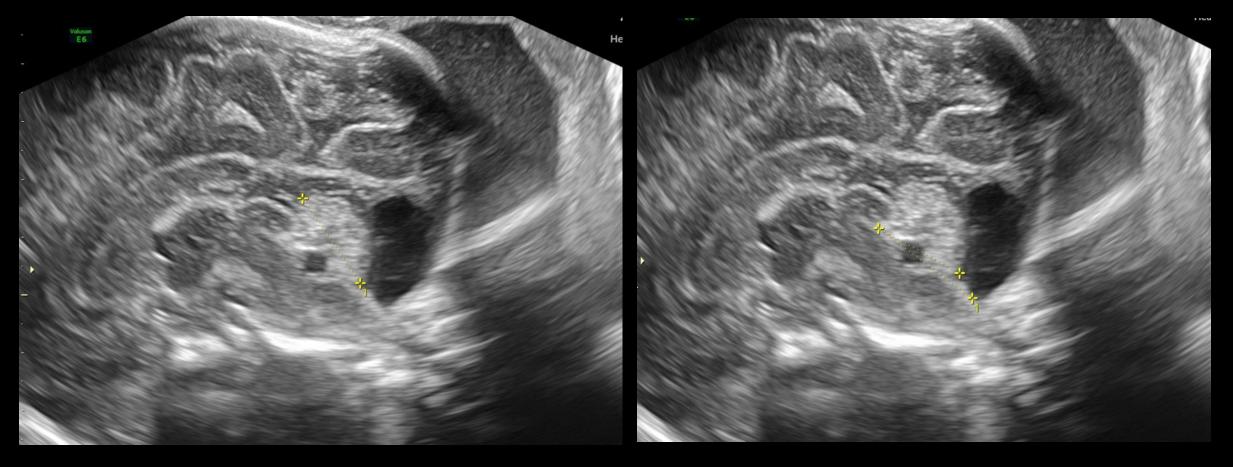




Coronal sweep from Anterior to posterior shows anterior complex- falx normal, frontal horn no dilatation appears normal, anterior complex appears normal. As we go posteriorly cerebellum, vermis which is nor communicating with the fourth ventricle.



The retro-cerebllar cyst measured 2.4x1.4mm in dimension.

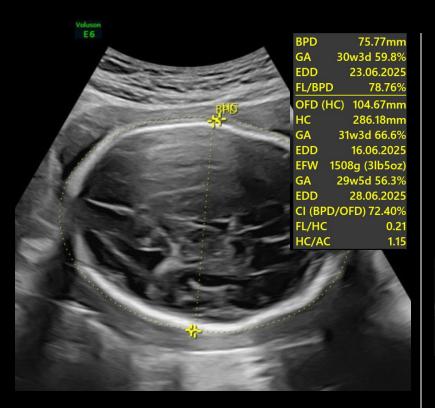


This is the Midsagittal section of fetal brain. Vermis is normal in size, shape and morphology. On comparison to the nomograms of corresponding gestational age, it appears normal. No rotation or superior displacement of the vermis noted. Fourth ventricle is maintaining the normal rhomboid shape. A prominent CSF space is noted in retro and infracerebellar region. Not communicating with fourth ventricle. CC length of Vermis measures 1.8cm and appears normal as per nomograms of corresponding gestational age, which rules out vermian hypoplasia.

The tegmento-vermian angle is calculated, which measured 7.7 degrees, which is normal and rules out dandy walkers malformation.



Choroid plexus cyst measuring 5.3x2.8mm noted on the right side.

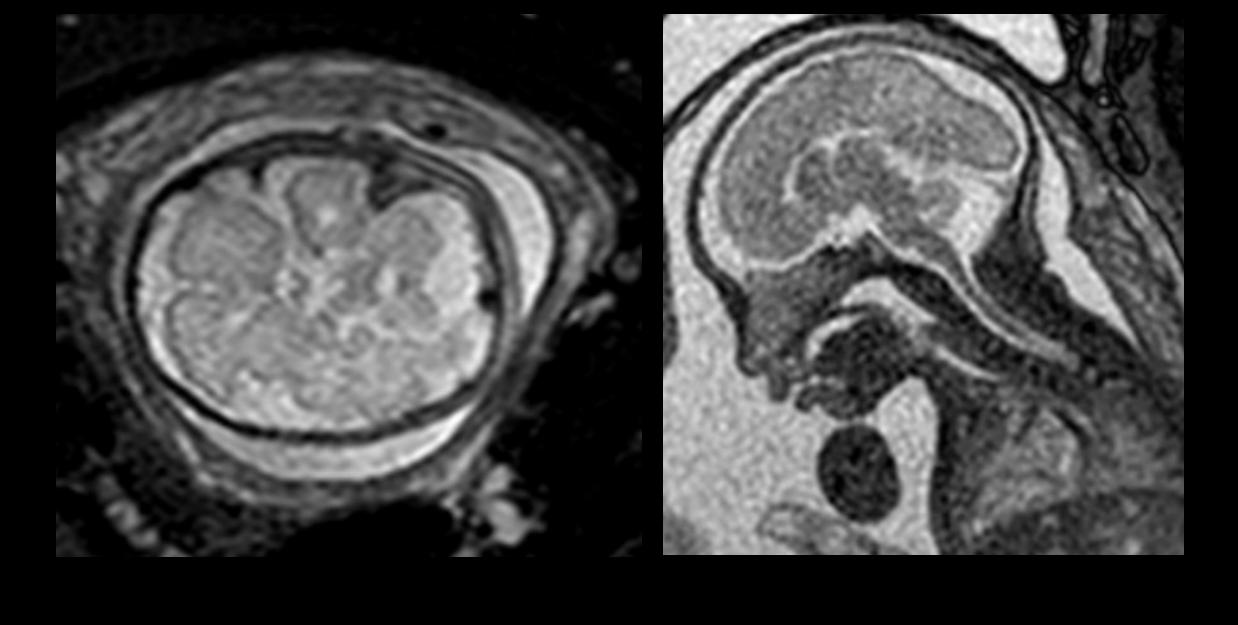






The atria of lateral ventricle is normal and measures 5mm. There is no hydrocephalus or ventriculomegaly BPD and head circumference are normal for gestational age, rules out macrocephaly, which is associated with dandy walkers malformation.

Rest of the biometry appeared normal and appropriate for gestational age.



#### Complimentary Fetal MRI shows:

- Increased retrocerebellar space
- No communication between 4<sup>th</sup> ventricle and retrocerebellar space
- Tentorium cerebelli normal in position

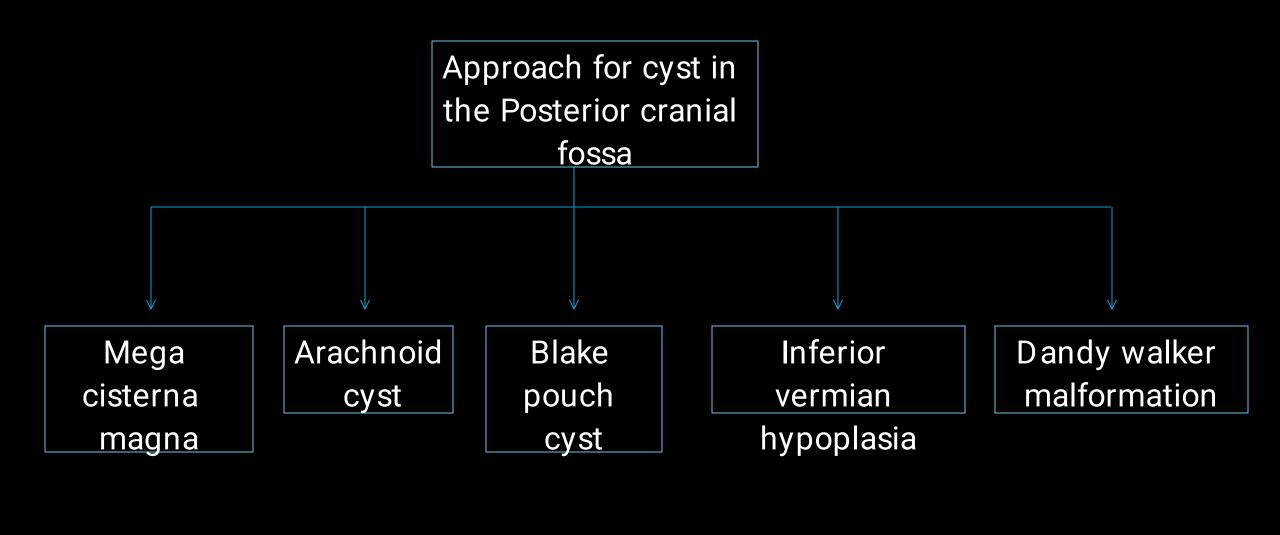
s/o Mega cisterna magna

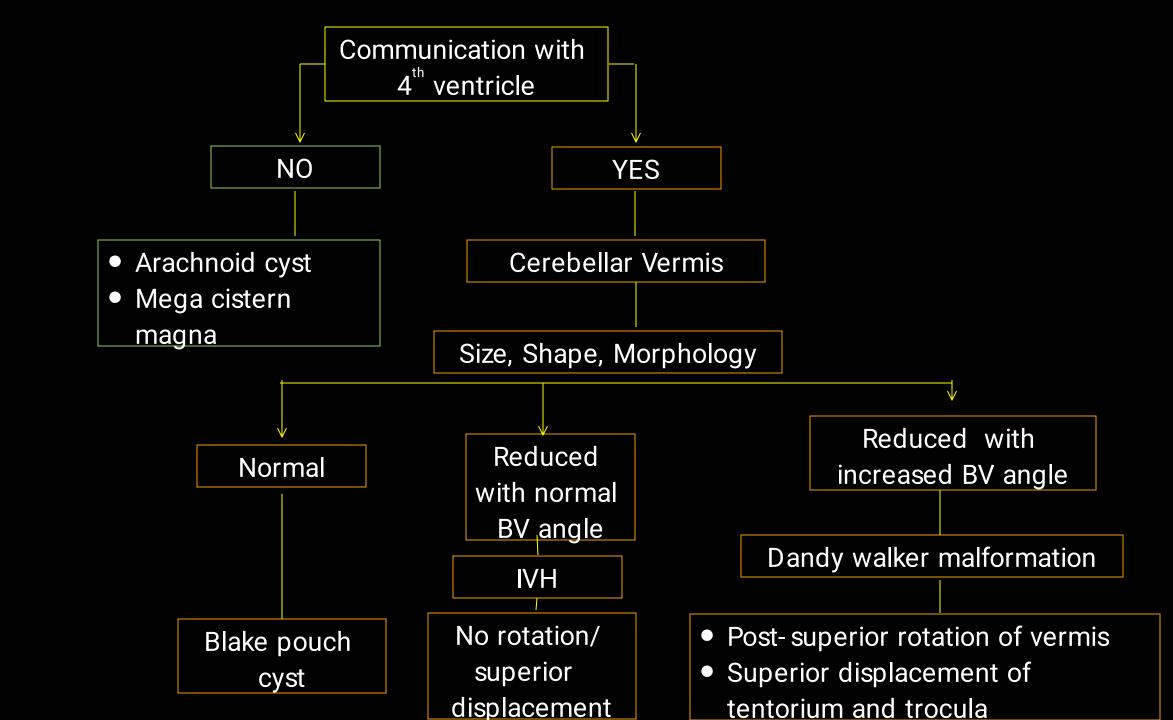
### IMPRESSION:

• A retro-cerebellar cystic lesion not communicating with the 4<sup>th</sup> ventricle with normal vermis & brainstem-vermian angle.

Features consistent with Mega cisterna magna

• Choroid plexus cyst in right lateral ventricle.





## THANK YOU