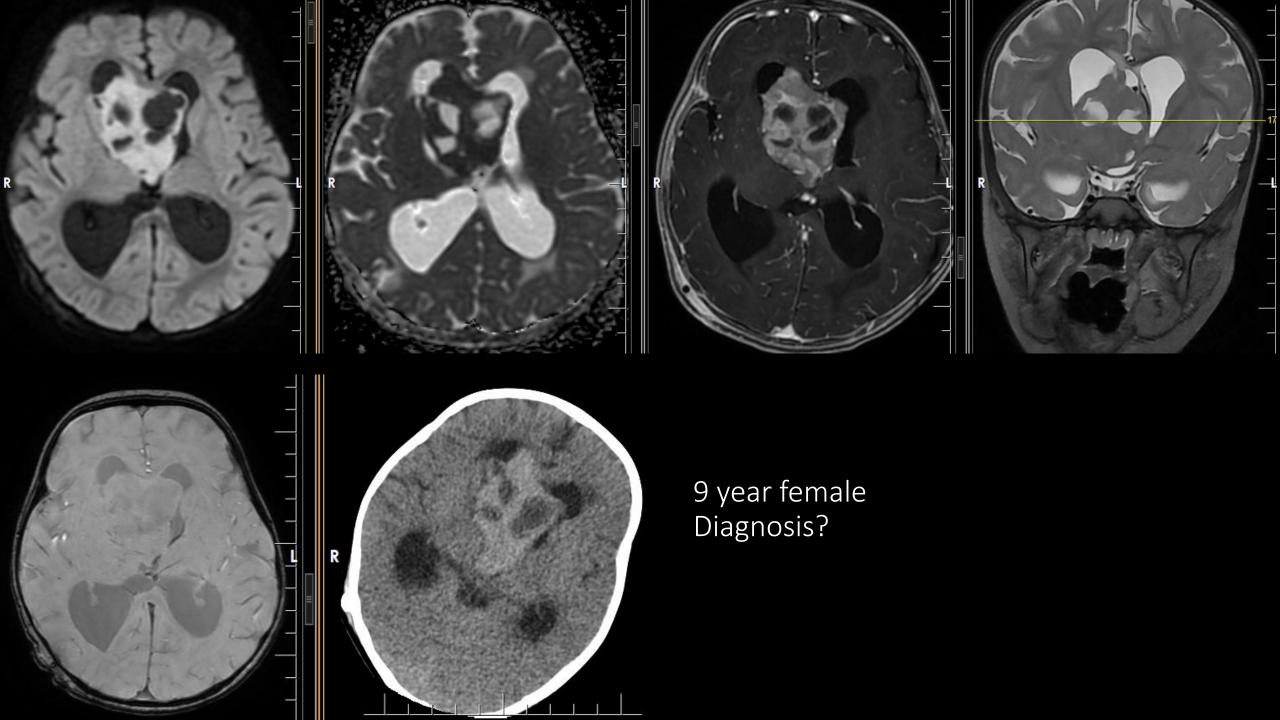
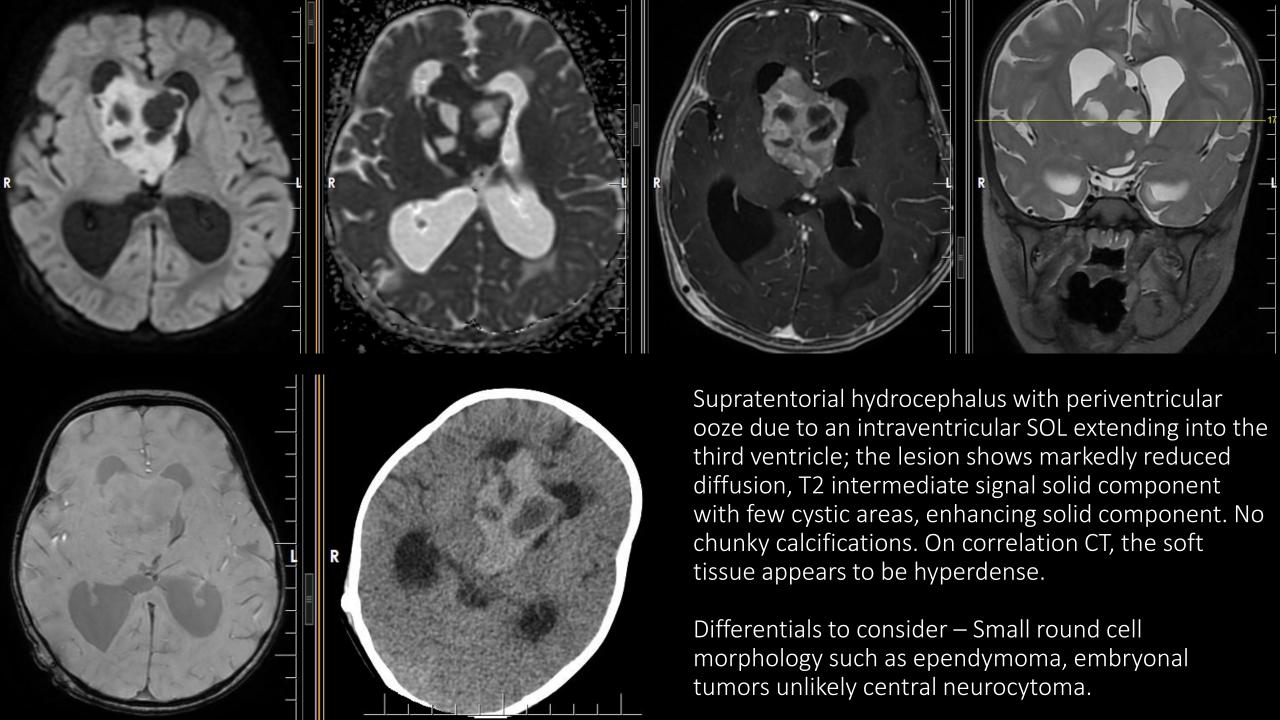


SJMCH, Bengaluru Contributor of the Series





Supratentorial ependymoma

- Supratentorial ependymomas are rare glial tumours arising in the cerebral hemispheres, either within brain parenchyma or adjacent to (or involving) ventricular margins.
- They occur primarily in children and adolescents, though adults may also be affected.
- Two major subtypes are recognised ZFTA (often previously termed RELA) fusion-positive and YAP1 fusion-positive.
- Tumours are heterogeneous masses, often showing mixed solid and cystic components, calcifications, necrosis, and variable enhancement. Periwinkle (or "stellate") sign: On non-contrast CT in some cases, centripetal calcification around a central necrosis gives a "periwinkle flower" appearance, sometimes with a peripheral cyst likened to a leaf.
- Location patterns: ~70% of supratentorial ependymomas are extraventricular (i.e. intraparenchymal) rather than strictly intraventricular.
- The ZFTA-fusion subtype tends to have a worse prognosis compared to YAP1-fusion subtype.
- Gross total resection when feasible is the goal, often followed by radiotherapy. Recurrence is common, and outcomes depend heavily on molecular subtype, extent of resection, and adjuvant therapies.
- Differential diagnosis: Because imaging features are not entirely specific, other tumours to consider include high-grade gliomas, embryonal tumours (e.g. atypical teratoid/rhabdoid), and circumscribed gliomas like astroblastoma, especially in pediatric cases.

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