


## **Primary Intracranial Cribriform Neuroepithelial Tumor (PICRINET): A Systematic Review of Cases from 2000 – 2025**

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*abstract*



## **Primary Intracranial Cribriform Neuroepithelial Tumor (PICRINET): A Systematic Review of Cases from 2000 – 2025**

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**Introduction:** Cribriform neuroepithelial tumor (CRINET) is a newly emerging rare neuroectodermal tumor sharing similarities with atypical teratoid/rhabdoid tumors (AT/RT). To the best of our literature search, there is a lack of compelling evidence documenting primary intracranial cribriform neuroepithelial tumor (PICRINET). The objective is to study the demographics, clinico-radiological presentation, treatment options, and outcomes of PICRINET.

**Methodology:** A comprehensive literature search was conducted across PubMed and Google Scholar databases per the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines, covering the studies published between 2000 and 2025. A total of 10 relevant publications were identified. The quality of the included studies was assessed using the Joanna Briggs Institute (JBI) critical appraisal criteria. Descriptive statistical analysis, including measures of central tendency and dispersion, was employed to evaluate the extracted variables.

**Results:** A total of 18 patients were included, all from the pediatric population, with a mean age of  $1.11 \pm 0.45$  years and a predominance of females (13, 72.2%). Most patients presented with signs of raised intracranial pressure. All lesions were intraventricular, the majority being in the fourth ventricle in 8 (44%). Magnetic Resonance Imaging (MRI) was suggestive of heterogeneous enhancement in 14 (83.3%). On histopathology, neuroepithelial cells were arranged in cribriform strands and ribbons in 16 (88.8%). Immunohistochemistry was suggestive of Ki-67/MIB positivity in 11 (61.1%) cases. Post-operatively, 9 (50%) patients underwent chemotherapy, and 1 (5%) underwent radiotherapy. Mean duration of follow-up was  $32.0 \pm 33.7$  months. Overall, 77.8% were alive without any neurological deficit at last follow-up.

**Conclusion:** PICRINET is an intraventricular tumor of toddlers with female predilection. Surgery combined with adjuvant therapy promises a three-year post-treatment survival better than AT/RT.

**Conflict of Interest:** None

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