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### **Pineal Abnormalities In The Pediatric Population - Review Of Anatomy, Histology, Immunochemistry, Pathology And Imaging**

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## Abstract Archives of the RSNA, 2021

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### Pineal Abnormalities In The Pediatric Population - Review Of Anatomy, Histology, Immunochemistry, Pathology And Imaging.

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#### Participants

Anant Krishnan, MD, Troy, Michigan (*Abstract Co-Author*) Nothing to Disclose

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#### TEACHING POINTS

1- Pineal gland lesions are responsible for 3-8% of pediatric intracranial tumors. 2- Our aim is to review anatomy, histology, normal development, immunochemistry tumor markers, imaging and pathology of pineal gland lesions in the pediatric population. 3- Radiologists should be aware of the peculiarities of these lesions to minimize errors of interpretation.

#### TABLE OF CONTENTS/OUTLINE

1. Anatomy, histology and normal development of the pineal gland. 2. Germ cell tumor types and tumor markers. Image 1: Germinoma secondary to synchronous development at multiple sites. Post-contrast MRI reveals multiple areas of enhancement including the foramen of Monroe and basal cisterns. 3. Pineal parenchymal tumors and immunohistochemistry. Image 2: Pineoblastoma. CT/MRI showing mass effect and CNS spread. 4. Glial Tumors and Pineal cystic lesions. Image 3: Multiloculated partially cystic process in the pineal gland with enhancement along the septations. The second one is a pineal cyst case with hemorrhage. 5. Miscellaneous. Image 4 showing an Atypical teratoid/rhabdoid tumor with CNS spread to pineal gland.

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