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### Imaging Of Pediatric Pituitary Abnormalities

The pituitary gland has a rich blood supply, with both a portal circulation (to the anterior pituitary) and arterial supply (to the posterior pituitary and pituitary stalk) 1. Arterial circulation A rich network of small branches supplies the stalk and the

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posterior pituitary, with a total of six arteries described, three from above and three from below/side (from the cavernous segment of the ...

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Author information. Affiliations. All authors. 1. Department of Radiology, The Mount Sinai School of Medicine, New York, NY 10029-6574, USA. [bradley.delman@mountsinai.org](mailto:bradley.delman@mountsinai.org)  
Endocrinology and Metabolism ...

Imaging of pediatric pituitary endocrinopathies.  
It is also referred as pituitary stalk interruption syndrome.  
Magnetic resonance imaging (MRI) had been the standard

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investigation of choice in depicting the anatomical abnormalities of the pituitary gland and hypothalamus. This rare entity of EN has an estimated incidence of 0.5/1,000,000 births.

### Imaging Of Pediatric Pituitary Abnormalities

Imaging of Pediatric Pituitary Abnormalities 675. form and therefore the posterior gland will not form normally either. The reader is referred to several excellent reviews of the genetics of pituitary development and genetic basis of anomalies.1,6,10-12  
IMAGING TECHNIQUE

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Abnormalities Abnormalities Imaging of Pediatric Pituitary

Abnormalities Bradley N. Delman, MD The normal pituitary is a bean-shaped gland that resides in the sella turcica, a fossa in the superior sphenoid bone within the central skull base. In humans, the gland has two dominant lobes, the anterior lobe

MR imaging of pediatric cerebral abnormalities.

Magnetic resonance imaging (MRI) is the modality of choice to visualize hypothalamic-pituitary axis and associated endocrinopathies. Neuroimaging can be normal or disclose abnormalities related to pituitary-hypothalamic axis like (i) congenital and developmental malformations; (ii) tumors; (iii)

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cystic lesions; and (iv) infectious and inflammatory conditions.

Pituitary gland | Radiology Reference Article ...

Imaging Findings.—At imaging, the appearance may vary depending on the type of vascular malformation, but they usually display multicystic features. At US, they typically demonstrate multicystic masses with a solid component, venous formations, and internal septa.

### Imaging Of Pediatric Pituitary Abnormalities

Accurate investigation of the hypothalamic-pituitary area is required in pediatric patients for diagnosis of endocrine-related disorders. These disorders include hypopituitarism, growth failure, diencephalic syndrome, delayed puberty, precocious

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puberty, diabetes insipidus, syndrome of inappropriate antidiuretic hormone (SIADH) secretion, and hyperpituitarism.

Extra-pituitary Cerebral Anomalies in Pediatric Patients ...  
The pituitary gland/hypothalamic-pituitary axis presents a big diagnostic imaging challenge, particularly in pediatric population, because of its small size and versatile disease processes. MRI (with its multiplanar capability) is the modality of choice in evaluation of pituitary-hypothalamic morphology and associated endocrinopathies.

### Imaging Of Pediatric Pituitary Abnormalities

High-resolution MRI of the pediatric sella can help identify or confirm clinical abnormalities, assess pituitary gland size and

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structure, and reveal acquired lesions.

### Imaging of Pediatric Pituitary Abnormalities

Evaluation of the sella and surrounding structures in pediatric endocrinopathies is best performed with high-resolution magnetic resonance imaging. Adequate assessment relies not only on determining the size and shape of the gland but also on confirming normal signal characteristics and homogeneous parenchymal enhancement. Surrounding structures, including the hypothalamus-infundibulum-stalk ...

Advances in Imaging of the Pediatric Pituitary Gland.

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Age-Related Pituitary Volumes in Prepubertal Children with ...  
A systematic approach to the pituitary region is crucial as small lesions can have a profound impact on the patient, and can be subtle even on high quality dedicated MRI imaging. Successful assessment of the pituitary region relies not only on a clear understanding of the local anatomy but also on the relatively wide variety of pathologies that occur in the region.

Imaging of pediatric pituitary abnormalities. - Abstract ...

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Imaging Evaluation of Pediatric Parotid Gland Abnormalities  
MR imaging of pediatric cerebral abnormalities. Han JS, Benson JE, Kaufman B, Rekate HL, Alfidi RJ, Huss RG, Sacco D, Yoon YS, Morrison SC. One hundred sixteen magnetic resonance (MR) imaging studies from 105 pediatric patients with a variety of cerebral abnormalities were reviewed to determine the diagnostic efficacy of MR in the pediatric population.

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Imaging of Pediatric Pituitary Abnormalities ...  
Imaging of Pediatric Pituitary Abnormalities. ... Background  
Pediatric pituitary adenomas are a rare medical entity that makes up a small portion of intracranial tumors in children and adolescents.

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(PDF) Imaging of pediatric pituitary endocrinopathies

High-resolution MRI of the pediatric sella can help identify or confirm clinical abnormalities, assess pituitary gland size and structure, and reveal acquired lesions. This article reviews contemporary techniques for imaging of the sella and associated structures in this population.

Imaging of pediatric pituitary endocrinopathies

Background: Evaluation of the size of the pituitary gland on magnetic resonance imaging (MRI) may be difficult, considering the wide variation in normal gland morphology. Given the paucity of age-related biometric data, our purpose was to obtain standard normal reference values for pituitary volumes in prepubertal children using three-dimensional MRI

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data.

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