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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

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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  
Evaluation of the  
sella and

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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

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the gland but also on confirming normal signal characteristics and homogeneous parenchymal enhancement. Surrounding structures, including the hypothalamus-infundibulum-stalk ...

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Imaging Of  
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form and therefore  
the posterior gland  
will not form  
normally either.  
The reader is  
referred to several  
excellent reviews

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of the genetics of  
pituitary  
development and  
genetic basis of an  
omalies.1,6,10-12

## IMAGING TECHNIQUE

(PDF) Imaging of  
pediatric pituitary  
endocrinopathies  
High-resolution MRI  
of the pediatric  
sella can help

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identity 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

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population.

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Abstract ...  
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High-resolution MRI of the pediatric sella can help identify or confirm clinical abnormalities, assess pituitary gland size and structure, and reveal acquired lesions.

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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,

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they typically demonstrate multicystic masses with a solid component, venous formations, and internal septa.

Imaging of  
Pediatric Pituitary  
Abnormalities ...

Imaging of  
Pediatric Pituitary  
Abnormalities. ...

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

Imaging of pediatric pituitary endocrinopathies. It is also referred

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as pituitary stalk interruption syndrome. Magnetic resonance imaging (MRI) had been the standard investigation of choice in depicting the anatomical abnormalities of the pituitary gland and hypothalamus. This rare entity of

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EN has an estimated incidence of 0.5/1,000,000 births.

Imaging Of  
Pediatric Pituitary  
Abnormalities  
Accurate  
investigation of the  
hypothalamic-  
pituitary area is  
required in

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pediatric patients for diagnosis of endocrine-related disorders. These disorders include hypopituitarism, growth failure, diencephalic syndrome, delayed puberty, precocious puberty, diabetes insipidus, syndrome of

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inappropriate  
antidiuretic  
hormone (SIADH)  
secretion, and  
hyperpituitarism.

Imaging of  
pediatric pituitary  
endocrinopathies  
Background:  
Evaluation of the  
size of the pituitary  
gland on magnetic  
resonance imaging

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(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

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prepubertal  
children using  
three-dimensional  
MRI data.

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Endocrinology and  
Metabolism ...

MR imaging of

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Magnetic resonance imaging (MRI) is the modality of choice to visualize hypothalamic-pituitary axis and associated endocrinopathies. Neuroimaging can be normal or disclose abnormalities

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related to pituitary-hypothalamic axis like (i) congenital and developmental malformations; (ii) tumors; (iii) cystic lesions; and (iv) infectious and inflammatory conditions.

Advances in  
Imaging of the  
Pediatric Pituitary

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Imaging Evaluation  
of Pediatric Parotid  
Gland  
Abnormalities  
MR imaging of  
pediatric cerebral

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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

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reviewed to determine the diagnostic efficacy of MR in the pediatric population.

Pituitary MRI (an approach) | Radiology Reference Article ...  
This imaging of pediatric pituitary abnormalities, as

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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

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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.

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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

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A rich network of small branches supplies the stalk and the 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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Abnormalities

Bradley N. Delman,

MD The normal

pituitary is a bean-

shaped gland that

resides in the sella

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turcica, a fossa in the superior sphenoid bone within the central skull base. In humans, the gland has two dominant lobes, the posterior lobe

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