

Testicular Leydig cell tumor

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History

Patient with history of small left testicle, presents for ultrasound for this reason.

Diagnosis

Testicular Leydig cell tumor

Discussion

Approximately 4% of all testicular tumors arise from the cells forming the sex cords (Sertoli cells) and interstitial stroma (Leydig cells). Leydig cell tumors are the most common in this group, accounting for 1%–3% of all testicular tumors. They can be seen in any age group, with 20% of cases occurring in patients younger than 10 years. Most are benign, although they can infrequently be malignant. Approximately 30% of patients will have an endocrinopathy secondary to secretion of androgens or estrogens by the tumor. The endocrinopathy may manifest as precocious virilization, gynecomastia, or decreased libido. Sex cord–stromal tumors may also manifest as a painless testicular mass without endocrine abnormalities.

Leydig cell tumors are generally small solid masses. At US, Leydig cell tumors are usually homogeneous and hypoechoic. Calcification has also been reported. At Doppler evaluation, Leydig cell tumors typically have prominent circumferential blood flow with a lack of internal vascularity. Their sonographic appearance is variable and is indistinguishable from that of germ cell tumors.

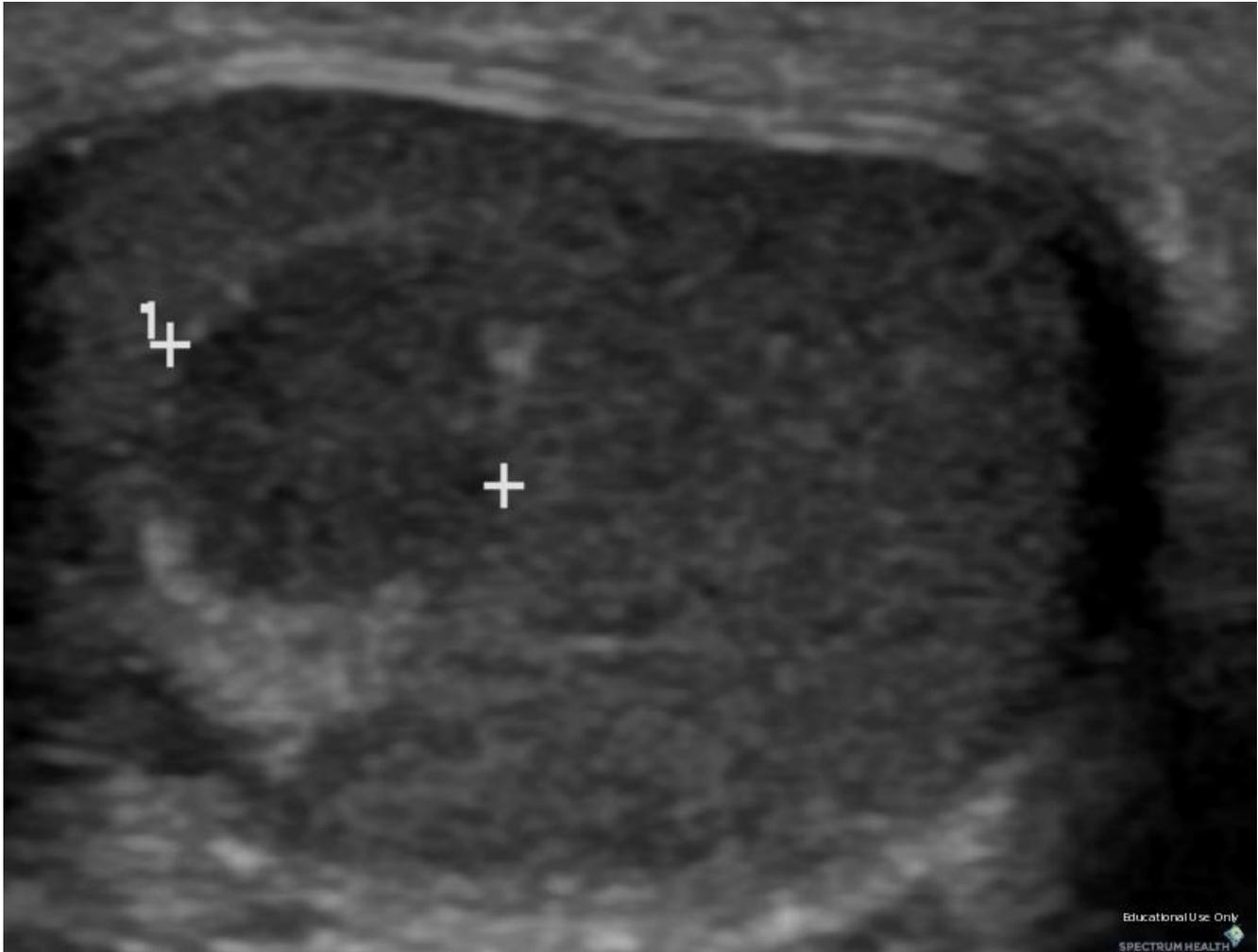
Findings

Incidental homogeneous circumscribed hypoechoic mass with minimal internal calcification and associated internal hypervascularity.

Reference

From the Archives of the AFIP. Tumors and Tumorlike Lesions of the Testis: Radiologic-Pathologic Correlation. January 2002 RadioGraphics, 22, 189-216.

From the Radiologic Pathology Archives: Precocious Puberty: Radiologic-Pathologic Correlation. November 2012 RadioGraphics, 32, 2071-2099.

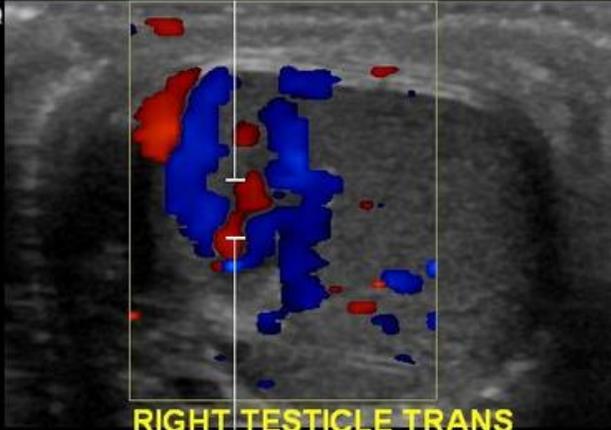




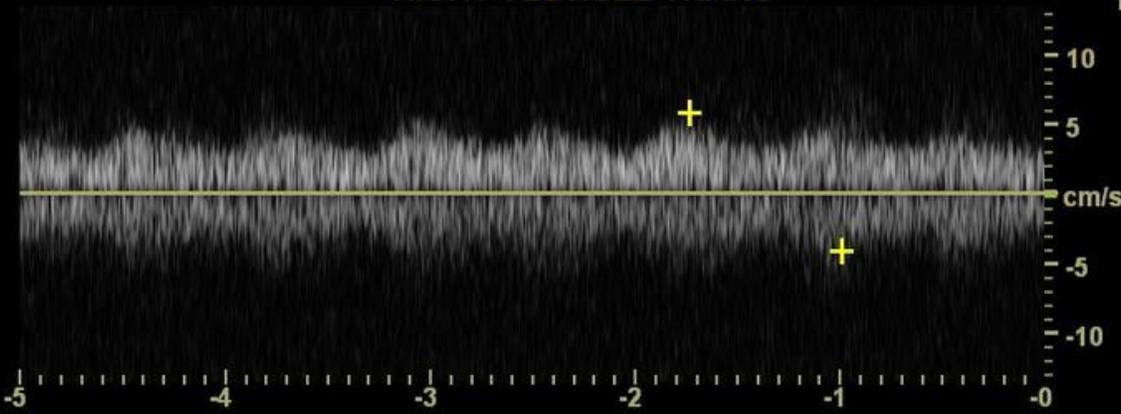
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MI 0.21 TIs 0.1 ML6-15
Scrotal

LOGIQ
E9



FR	28
PS	5.9 cm/s
ED	4.1 cm/s
Frq	15.0
Gn	40
D	3.5
AO%	100
CF	
Frq	7.5
Gn	18.0
PRF	2.9
WF	213
AO%	100



PW	
Frq	8.3
Gn	41
PRF	2.9
WF	64
SV	2
SVD	0.7
AO%	100

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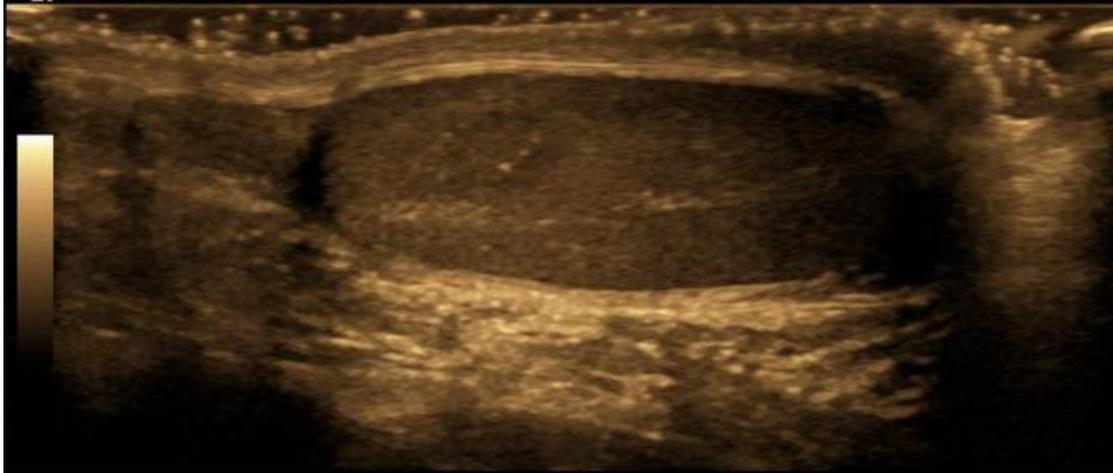
SH-HDVCH
02/26/13 01:07:08PM KSD

MI 0.6 TIs 0.1 ML6-15
Scrotal

FR 22

CHI
Frq 15.0
Gn 30
S/A 1/1
Map D/0
D 2.0
DR 72
AO% 100

LOGIQ
E9



0.0
0.5
1.0
1.5
2.0

RIGHT TESTICLE SAG

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