Hemangioma: rare testicular tumor

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Introduction
Testicular hemangiomas are rare
Less than 30 cases in all age groups in the English literature.

Child: only 9 similar cases between birth and puberty.

Aim: - describe a rare but benign entity
- target patients for sparing testicle

Case report

16 years old boy with idiopathic delayed puberty treated by testosterone
History of preputial plasty
 Oriented for classical follow up

Ultrasound:
- Intratesticular nodule from 6X5X8mm
- Doppler with unusual vascular activity, lots of vessels
- Elastography identical as testicular parenchyma

Serum markers:
AFP, B HCG, LDH all normal
Last testosterone control: within the norms

Partial orchiectomy was performed
Intra operative ultrasound control

Lots of benign capillary
CD31 expressed
Compatible with hemangioma

Discussion
Vascular tumors are rare, especially located in the testicles. Testicular hemangioma is a challenging diagnostic but it has to be discussed considering that this lesion is totally benign. Because of the age and the radiological patterns hemangiomas can mimic malignant tumors.

The clinical patterns are aspecific.

In all the cases consulted, the alpha foeto protein, beta chorionic gonadotrophin and lactate deshydrogenase where negative, suggesting this as an argument in favor of benign character even if only 50 percent of the patients shows markers elevations in testicular malignancies.

The diagnosis is made by pathological analysis. There are four types of testicular hemangiomas: cavernous, histiocytoid, capillary and papillary endothelial hyperplasia. Histopathology shows vascular tumor with well differentiated endothelia. The vessels are large with thin wall. No excessive atypia’s or mitosis are noted.

Conclusion

Who should benefit from sparing testicles surgery?
- Pre or peri pubescent
- Benign patterns at echography
- Negative markers
- Size that enable partial resection
- Intra operative pathology analysis

Bibliography