Case Report

Bilobed testicle diagnosed by ultrasound in a 9-year-old boy

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A B S T R A C T

Bilobed testis is an extremely rare congenital malformation, and even rarer on the right side. Only 7 cases have been reported in the literature. We describe the case of a 9-year-old boy with a right bilobed testicle confirmed on ultrasound and discovered incidentally as a mass on physical examination. The aim of our work is to consider the bilobed testicle as a differential diagnosis of a testicular mass despite its rarity and to show the importance of ultrasound and MRI for its definitive diagnosis to avoid unnecessary surgery.

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Introduction

Bilobed testis is an extremely rare congenital malformation in children, more common on the left side [1,2]. Although the etiology is still unknown, it is speculated that this malformation may be an incomplete expression of polyorchidism with less than 200 cases reported [1,3]. It is overall a benign condition according to previous studies [3,4], but it may lead to a higher risk of torsion or even malignancy [4]. Its treatment is so far conservative, but it is difficult to evaluate the long-term development of the disease due to its rarity [4]. Only 7 cases have been reported in the literature to date [4].

We describe here a case of right bilobed testis in a 9-year-old boy confirmed by scrotal ultrasound.

Case report

A 9-year-old boy with no particular personal or family history was referred to the department of pediatric surgery and radiology for a right scrotal painless mass, not increasing in volume, with no inflammatory signs. It has appeared 2 years prior to his admission.

The clinical examination revealed a round, painless, mobile mass, well-limited, in the upper pole of the right testicle. The rest of the physical examination didn't reveal anything particular.

Faced with this clinical picture, a scrotal ultrasound was performed revealing a hypoechoic mass attached to the upper pole of the right testicle with normal vascularization shown in...
According to previous studies the bilobed testicle is considered a benign entity, however a debate still persists over the risk of torsion and malignancy on bilobed testicle cases [3,4]. Historically, the definitive diagnosis of polyorchidism was made by surgical exploration, nowadays ultrasound and MRI are sufficient to diagnose polyorchidism including bilobed testicle.

The management of polyorchidism still remains controversial [1,4]. Some authors recommend conservative treatment [1] while others have recommended surgical management including partial orchiectomy or orchidopexy depending on the complication, based on the suspicion of malignancy and the high prevalence of testicular torsion [5].

As mentioned above in the case report, in our experience, given the absence of complications, surgical exploration was not necessary.

**Patient consent**

Written and informant consent for publication of the case was obtained from the patient.

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