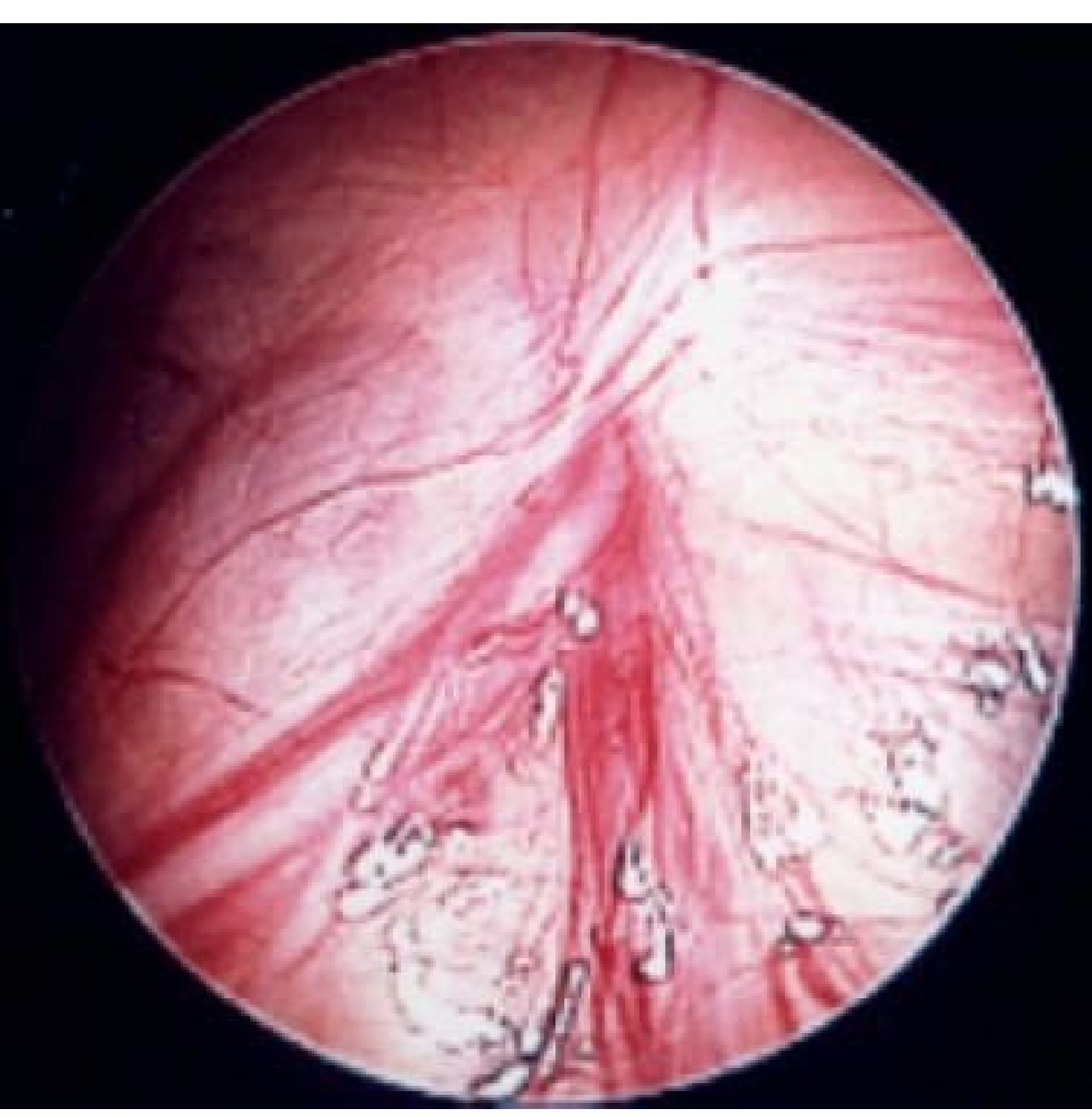


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13. Prepubertal hastalarda anestezi altında tekrar muayene yap, palpe edilemezse cerrahi eksplorasyon (Standart,B)

- Palpe edilirse açık orşiopeksi
- Palpe edilemezse açık/lap testis aranması.
 - Açık testis aranması ile laparoskopi arasında benzer oranlar.

14. Cerrahi eksplorasyonda testiküler damarlar ortaya çıkarılmalıdır.(Klinik Prensip)

- Bir sonraki adımda yardımcı olur.
- Ya testisi bul, ya da testiküler yapının sonunu bul.



Commentary

AUA Guideline on the Diagnosis and Treatment of Cryptorchidism

CRYPTORCHIDISM is one of the most common male pediatric urological conditions, and one that can have a lifelong effect if not managed appropriately. The evaluation and treatment of cryptorchidism have progressed significantly during the last several decades, as the condition has been studied extensively. While we now have a much better understanding of the pathogenesis and sequelae of undescended testes (UDTs), our knowledge remains incomplete. Given the breadth of studies performed in the last 3 decades examining the many pathogenetic factors contributing to cryptorchidism, as well as the availability of numerous hormonal and surgical treatment options, a comprehensive consensus statement was necessary. This consensus document is now presented as the American Urological Association guideline on the evaluation and treatment of cryptorchidism.

The purpose of this complementary commentary is to inform the reader on progress in the evaluation and treatment of cryptorchidism since March 2013, the last time when studies pertinent to the development of the guideline were evaluated. Additionally, given that the risk of malignancy in men with a history of cryptorchidism is not as high as previously thought, we briefly discuss considerations in postpubertal males with a history of cryptorchidism, which were not addressed in the guideline.

To identify salient studies to include in this commentary, we searched PubMed® for articles related to cryptorchidism in children and adults, limited to humans, between March 2013 and April 2014. In our review we focused on reports that provided additional data to enhance the conclusions of the AUA guideline panel. We identified work in numerous areas focused on in the guidelines about which additional findings had been reported, including epidemiology, genetics, environmental factors, use of imaging, hormonal and surgical treatment, natural course of cryptorchidism and fertility.

EPIDEMIOLOGY

A clear distinction is now made between congenital and acquired cryptorchidism. In the AUA guideline

several studies evaluated testicular ascent among boys with descended testes at birth, finding that approximately 23% of testes ascended, resulting in acquired cryptorchidism. A more recent study retrospectively evaluated the records 660 boys who underwent orchidopexy after age 2 years, of whom 66% had a scrotal testis on 2 or more occasions and suggesting a significantly higher ascent rate than previously observed.¹ Furthering the relationship between cryptorchidism and disorders of sexual differentiation, a recent report identified a link between prematurity and intrauterine growth retardation in boys with hypospadias and UDT, adding to the list of risk factors for UDT and indications for a multidisciplinary evaluation.²

CRYPTORCHIDISM GENETICS

Evidence supporting genetic susceptibility in boys with UDT is currently weak, although several genes including *INSL3*, *LGR8*, *AR* and *ESR1* have been implicated. More recently, the anti-müllerian hormone (AMH) receptor type 2 has been correlated with UDT, as it was found to be expressed in 100% of 109 appendix testes from patients with UDT.³ A recent case report describing a case of persistent müllerian duct syndrome with an undetectable AMH level demonstrated a novel T>G base substitution in the *AMH* gene, resulting in a Leu>Arg amino acid change.⁴ Given that testicular descent is affected by AMH, these findings suggest a role for it and its receptor in the pathogenesis of UDT.

Novel work has also linked deletion of the distal portion of chromosome 9p to cryptorchidism and other urological anomalies, identifying *DMRT1* as the likely responsible gene.⁵ Finally, a new *AR* mutation (c.2214 T>G; Ile>Met) was identified in a family with testicular dysgenesis syndrome which was found to decrease *AR* transcriptional activity by 50%, in line with the concept that reduced androgen signaling might contribute to the development of the syndrome.⁶ Similar to the genes discussed in the AUA guideline, the aforementioned genes lack proof of causality in linking them to UDT.

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