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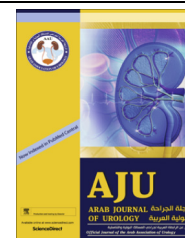
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PEDIATRIC UROLOGY  
POINT OF TECHNIQUE

# The interscrotal approach to inguinoscrotal pathologies



Zineddine Soualili, Djelloul Achouri, Assia Haif, Souhem Touabti, Smain Ait Yahia, Mahmoud Benmahmoud, Hichem Choutri, Sameh Nedjar, Malika Mimoune, Sayah Chouaib \*

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## KEYWORDS

Testis;  
Cryptorchidism;  
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**Abstract Objective:** To determine the efficiency of the interscrotal approach to inguinoscrotal pathologies.

**Patients and methods:** We report the use of the interscrotal approach in 21 boys, from September 2012 to November 2013, operated using an interscrotal access through a vertical incision on the median raphe.

**Results:** The approach was used for bilateral inguinal hernia (48%), bilateral ectopic testis (19%), torsion of the spermatic cord (19%), testicular biopsy (10%) and webbing of the penis (5%).

**Conclusion:** Inter-scrotal access is an option for inguinoscrotal pathologies, with the advantages of a single incision, much less dissection and disruption of tissue, and greater comfort for the 'day-case' child.

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## Introduction

We report our experience in 21 boys operated using a vertical incision on the median interscrotal raphe [1], to determine the efficiency of this surgical approach in treating inguinoscrotal pathologies [2].

## Patients and methods

We used an interscrotal access in 21 boys from September 2012 to November 2013, operated by a

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vertical incision on the median raphe, for the pathologies listed in [Table 1](#). Necessary approval was obtained from the institutional ethics committee and the patients provided informed consent for these procedures.

### Technique

The patients were placed in a dorsal decubitus, with flexed thighs in abduction. The penis was compressed vertically in the midline and maintained by a compression dressing, an adhesive application to avoid mobility of the pelvis, with a soft padding around the iliac crests.

A vertical incision ([Fig. 1](#)) was made on the median raphe of the scrotum [[3](#)] (mono- and bipolar scalpel use is not desirable and was not used in this series) [[4](#)] and then using a chisel and atraumatic clamp, the incision ([Fig. 2](#)) was opened and dissected from the intrascrotal tunica up to the high subcutaneous inguinal region. At this level, the fascia of Scarpa is opened and dissected up to the anterior arch of the superficial inguinal ring [[5](#)]. At this level, with an *ecarteur* of Farrabeuf it is lifted upwards [[6](#)] and the anterior arch is incised with scissors, which allows entry to the deep inguinal ring ([Fig. 3](#)). The procedure then continues using the steps of classic surgery.

**Table 1** The baseline characteristics and relevant pathologies of the 21 boys.

Pathology	N patients	Age range (years)
Bilateral inguinal hernia	10	0.16–2
Bilateral ectopic testis	4	2–4
Torsion of spermatic cord	4	0.16–15
Testicular biopsy	2	0.16–1.5
Webbing of the penis	1	1.1



**Figure 1** Vertical incision on the median interscrotal raphe.



**Figure 2** Exploration of the scrotum.



**Figure 3** Full access to both testicles.

### Results

In the 21 boys, of the 10 bilateral inguinal hernia repairs, seven were successful [[7](#)], and the remaining three were unilateral recurrent hernia, either due to inadequate ligation of the hernia sac [[8](#)], or a hernia sac that was too wide and friable [[9](#)]. The surgeon should check that the sac has been excised at the level of the deep inguinal orifice next to the pre-hernia lipoma. Of the four bilateral ectopic testes, three were treated successfully and one had an infection of the wound [[10](#)]. Of the four boys with torsion of the spermatic cord, all were treated successfully, and both the testicular biopsy and webbed penis repair were successful ([Table 1](#)).

The technique has the advantage of a single incision, much less dissection and disruption of tissue, and greater comfort for the 'day-case' child.

In conclusion, interscrotal access is an important approach that could eventually replace bilateral inguinal incisions, and is an option for approaches to inguinoscrotal pathologies.

**Conflict of interest**

None.

**Source of funding**

None.

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