



Pediatric inguinal hernia: Shall we change practices?

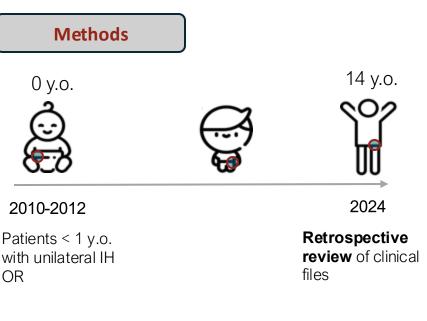
Domingas Atouguia, Silviana Ribeiro, Tiago Tuna, Miguel Campos, Angélica Osório

Pediatric Surgery Department, Unidade Local de Saúde de São João, Porto - Portugal

Purpose

Whether to correct a pediatric inguinal hemia (IH) through open or laparoscopic repair is still controversial. ^{1,2} Laparoscopy has gained many followers in the last decade, being the strongest argument in favour the possibility of prevention of a metachronous contralateral inguinal hemia (MCHI).

We aimed to evaluate the incidence of a MCIH in a cohort of patients < 1 year old that had unilateral inguinal hernia open repair (OR), to characterize those in whom a MCIH was identified on follow-up and to review the most recent literature in laparoscopic pediatric IH repair, patent processus vaginalis (PPV) and MCIH.





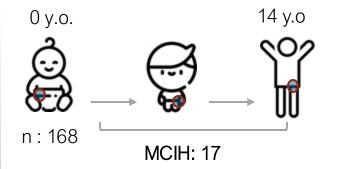
Data collected: sex, IH side, age at OR, prematurity and diagnosis of MCHI.

Exclusion criteria: >= 1 y.o., bilateral IH, criptorquidism, recurrent IH, laparoscopic repair and unavailable data.



Statistical analysis: SPSS®.

Results



MCIH incidence:

10.12 %

(95% CI: 5.65-14.59%)

| <u>Sex</u> : 12 & | 5₽ |
|-------------------|----|
|-------------------|----|

p = 0.5

Side: 10 R | 7 L

p = 0.7

Mean age at OR: 3.24 m

p = 0.075

Prematurity:

3 (n

p = 1

1. MCIH population's characteristics and variable comparison between patients with IH with MCIH and IH without MCIH.

No significant association was found between these variables and the presence of a MCIH.

Conclusion

Although there are recommendations towards the laparoscopic repair in pediatric IH, formal and consensual guidelines are yet to come. The reported incidence of PPV ranges within 20-60%³ and of MCIH between 5-31%⁴, with most studies agreeing in values of 5-12%⁵ meaning that probably not all PPV will become an IH.

In our study, and in agreement with the literature, a MCIH was found in 10.12% and there was no significant association between sex, side, age at OR and prematurity (*p*> 0.5). According to this results, to avoid one MCIH ten contralateral inguinal explorations would be necessary. This reinforces the fact that the use of laparoscopy to detect and close a PPV, and consequently, to prevent MCIH is still a questionable argument.