Brief Report

Peha-haft bandage as a new dressing for pediatric hypospadias repair

A. N. Gangopadhyay, S. Sharma
Department of Paediatric Surgery, University Hospital, Institute of Medical Sciences, Banaras Hindu University, Varanasi – U.P., India

Address for correspondence: A.N. Gangopadhyay, Professor & Head, Department of Pediatric Surgery, Institute of Medical Sciences, Banaras Hindu University, Varanasi – 221 005, E-mail: gangulybhu@rediffmail.com

ABSTRACT

Hypospadias Repair has varied alternatives in every step including dressing. 

Objective: To compare Peha-Haft cohesive dressing with compressed gauze penile wrap dressing in hypospadias repair.

Patients and methods: Peha-Haft cohesive dressing was prospectively used in 60 subjects (Group A) over a period of three and a half years from Jan.2001 to July 2004 and compared with 60 subjects of compressed gauze dressing with micropore adhesive (Group B). Primary outcome measures were ease of application, cost, comfort with dressing, dressing related early complications, pain during dressing removal assessed by FLACC score and time taken during removal.

Results: Time taken during dressing removal was 30 + 11 seconds in Group A and 180 + 26 seconds in Group B. FLACC score was 3 + 2 in Group A and 7 + 3 in Group B. No sedation was required in the Group A while it was required in 26 cases in Group B.

Conclusion: Peha-Haft dressing was superior in terms of the ease of application, cost, comfort with dressing, dressing related early complications, time consumed and pain during dressing removal.

KEY WORDS

Hypospadias dressing, Peha-Haft bandage

INTRODUCTION

Removal of hypospadias repair dressing is painful for the apprehensive pediatric patient and a time consuming one for the surgeon. A novel dressing material was found useful in solving both these issues.

PATIENTS AND METHODS

In Group A, sixty subjects of hypospadias repair were dressed with Peha-Haft dressing [Figure 1]. Sofratulle was wrapped around the penile shaft followed by gauze and three turns of peha-haft double folded along its width. No additional adhesive was applied to penile shaft. In sixty subjects of Group B, sofratulle followed by 4-7 turns of gauze and 3-4 turns of micropore adhesive was applied. Distribution of cases was on random basis. Mean age of patients was 5.26 ± 2.24 years (Range: 3-12 years) in group A and 4.92 ± 2.40 (Range 2.5-10 years) in group B. In group A, 28; 15; 13 and 4 patients and in group B, 32; 12; 10 and 6 had distal; mid; proximal penile and scrotal hypospadias, respectively. Type of urethroplasty was Mathieu’s, Snod Grass, Duckett’s, Asopa’s, Theirsch Duplay, Free preputial graft and combined scrotal flap in 9, 4, 10, 15, 4, 16 and 2 in group A and 7, 2, 14, 19, 2, 12 and 4 in group B. First dressing was changed on fifth post-operative day. Time
Figure 1: Peha Haft Bandage used for Pediatric Hypospadiac dressing taken for dressing removal, pain assessed by FLACC scoring and requirement of sedation was noted. [Table 1]. FLACC is a behavioral pain scale used to assess the post operative pain in children. FLACC stands for Face, Legs, Activity, Cry and Consolability. Each category is scored from 0-2. The total score varies from 0-10. The scores are interpreted as 0= relaxed and comfortable, 1-3= mild discomfort, 4-6= moderate pain and 7- 10= severe pain.

Second dressing on tenth post-operative day was not included in the study as it did not involve removal of a haemostatic compression dressing.

RESULTS

Both groups were comparable in terms of age, type of hypospadias and repair done. Peha-Haft dressing was easier to apply and could be applied with gloves. It could be reapplied to adjust tightness. No patient complained of discomfort with dressing in group A while 12 patients complained of pain and 6 of itching in group B. Four patients in group B had significant preputial edema requiring slitting open of dressing. There was no wound infection or allergic reaction in group A. Infection was noted in 3 patients in group B. Scab formation occurred in 2 patients in group A and 5 in group B. The dressing came out spontaneously in 4 patients in group B. Time taken for dressing removal was $30 \pm 11$ seconds in group A and $180 \pm 26$ seconds in group B. FLACC pain score during removal was $3 \pm 2$ in Group A and $7 \pm 3$ in Group B. No sedation was required for group A though it was required for 26 cases (43%) in group B.

DISCUSSION

Dressing following hypospadias repair is a controversial issue with a multitude of techniques described. While some concluded that no dressing is required, others have used innovative methods. The authors believe that dressing is essential to control post-operative oedema, prevent haematoma formation that predisposes to infection and as a barrier from surroundings. Use of an additional barrier film has been reported to save time. Novel methods used and found suitable include polyurethane bio occlusive foil, Cavi care, SANAV, glove-finger, Fibrin seal (Tisseal), Melolin and adhesive membrane dressings. Silicon foam dressing was found effective in restricting edema, haematoma formation and stabilization with easy removal. Peha-Haft is a cohesive elastic conforming bandage with extra strong adhesive effect due to its crepe texture and special latex coating. It adheres to itself, but not to skin, hair or clothes. It may be stretched 100% or more, no reverse turns are necessary. It is highly porous due to open-weave structure and light impregnation allowing aeration of the wound and preventing infection. It is very absorbent and gentle to skin due to high percentage of natural fibers and neutral latex coating. It’s a little stiff so keeps the penile shaft straight. It can be easily peeled off from itself during

<table>
<thead>
<tr>
<th>Categories</th>
<th>Scoring</th>
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<tbody>
<tr>
<td>Face</td>
<td>0 = No particular expression or smile, disinterested</td>
</tr>
<tr>
<td>Legs</td>
<td>1 = Occasional grimace or frown, withdrawn</td>
</tr>
<tr>
<td>Activity</td>
<td>2 = Frequent to constant frown, clenched jaw, quivering chin</td>
</tr>
<tr>
<td>Cry</td>
<td>0 = No cry (awake or asleep)</td>
</tr>
<tr>
<td>Consolability</td>
<td>1 = Moans or whimpers, occasional complaint</td>
</tr>
<tr>
<td></td>
<td>2 = Crying steadily, screams or sobs, frequent complaints</td>
</tr>
</tbody>
</table>

Each category is scored from 0-2. Total score 0-10, Total FLACC score 0= relaxed and comfortable, 1-3= mild discomfort, 4-6= moderate pain and 7- 10= severe pain.
Unilateral appearance of a chondro-epitrochlearis muscle—a case report

P. Jaijesh
Department of Anatomy, Melaka Manipal Medical College, Manipal – 576104, Karnataka, India

Address for correspondence: Dr. Paval Jaijesh, Melaka Manipal Medical College, Manipal – 576104, Karnataka, India. E-mail: jaijesh@yahoo.co.in

ABSTRACT

Variant muscle slips from pectoralis major muscle are rare. Among these, the muscle chondro-epitrochlearis is a very rare muscular anomaly. Here, in this report, we describe a similar muscle which had an origin from the lower ribs along with the lower fibres of the pectoralis major muscle, arched across the axilla, and then inserted to the medial epicondyle of humerus. In this report we present a review of literature on this muscle. We also discuss the clinical significance of this muscle since the knowledge of this muscle is important in the differential diagnosis of ulnar nerve entrapment.

KEY WORDS
Chondro-epitrochlearis, Pectoralis major muscle, Ulnar artery

Footnote
Peha Haft is a registered trademark of Elder pharmaceuticals private limited (Corporate office – Mumbai). We have not received any aid from this company for this study.

REFERENCES

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