3 Female Cases Of Subsymphyseal Epispadias And Their Correction

KEY WORDS
Incontinence, Correction.

ABSTRACT
Successful correction of incontinence by Leadbetter’s modification of young dees technique in 3 cases of subsymphyseal female epispadias is reported. Simplicity and efficacy of this technique has prompted the team to undertake this procedure in all the cases.

Female epispadias is a very uncommon entity. The complete form (subsymphyseal) of female epispadias presents with characteristic external genitalia deformity such as Bifid clitoris, and widely separated labia. The widely separated pubic bones confirmed by a skitagram is an important clue to establish epispadias urethra as a cause of incontinence.

A number of procedures e.g. bladder neck reconstruction, transvaginal placation of bladder neck, vesicourethral suspension, have been proposed for correction of incontinence in female epispadias.

Jeff has refined the bladder neck reconstruc
tion by including intraoperative urethral pressure profilometry and bladder neck suspension in manner of marshall, marchetti and krantz. Transvaginal placement of bladder neck and vesicourethral suspension alone also been reported with successful results by many authors.

Bladder neck reconstruction was first performed by Young in 1922 who converted funnel shaped posterior urethra into a tapered structure. In 1942, Dees modified and standardized the Young's procedure by arbitrarily defining the level for internal vesical sphincter at a point halfway between the verumontanum and intra arterial ridge. In 1964, Leadbetter further modified and advised creation of a long posterior urethral tube (3.5-5.0 cm) and thought that urethral length was responsible for continence, an idea advanced by Lapides. He reim- planted ureters beyond trigone, narrowed and tailored the entire bladder base to form a long new urethra. He did not excise the lateral triangular wedges of bladder wall which actually decreases the bladder capacity and affects the results. Cine cystourethrography done postoperatively in all his operated cases in follow up revealed that sphincteric action at new bladder neck formed by muscles of trigone were responsible for continence than urethral length as suggested previously.

Leadbetter's modification of young Dees bladder neck reconstruction is most promising operation for urinary incontinence and feasible in either sex. In 1986, he reported a long term follow up with excellent result in 67% and partial success in 9% patients undergone bladder neck reconstruction for variety of lesions. We performed Leadbetter's procedure in our 3 cases with excellent results. The complications likely to occur in this procedure are urethral obstruction or persistence of reflex, bladder neck obstruction, vesical diverticulum and wound infection. All of our cases achieved continence in immediate postoperative period without complications. IVP and voiding cystourethograms in follow up revealed well preserved renal functions and no reflux.

Photograph.

Figures:
1. Skagram KUB - Wide Separation of Pubic Symphysis.
2. Post-Operative Urethrogram-Normal Urethra.

<table>
<thead>
<tr>
<th>Case No.</th>
<th>Age (Yrs)</th>
<th>X-ray KUB separation of pubic bone</th>
<th>IVP</th>
<th>MCU</th>
<th>Procedure performed</th>
<th>Voiding interval during immediate post-op. period</th>
<th>Complications</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>10</td>
<td>10 MM</td>
<td>Normal</td>
<td>Adequate capacity with bilateral V-U Reflux</td>
<td>Lead better's modification of young dees.</td>
<td>2-3 hours.</td>
<td>None.</td>
</tr>
<tr>
<td>2.</td>
<td>4</td>
<td>12 mm</td>
<td>Normal</td>
<td>Adequate capacity with bilateral V-U Reflux</td>
<td>Lead better's modification of young dees.</td>
<td>1-1 1/2 hours</td>
<td>Secondary hemorrhage.</td>
</tr>
<tr>
<td>3.</td>
<td>28</td>
<td>9mm</td>
<td>Normal</td>
<td>Good Capacity no V-U Reflux</td>
<td>Lead better's modification of young dees but no uretero-neocystostomy.</td>
<td>3 hours</td>
<td>None.</td>
</tr>
</tbody>
</table>
The success in our cases is attributed to following:

1) Application of Leadbetter’s technique in toto.
2) Patient’s age 3 and above as recommended by Stephen.

Proximal reimplantation of ureters as advised by Leadbetter was carried out in 3rd case as there was absence of V-U reflux and proved successful.

REFERENCES:

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