Complex Traumatic Posterior Urethroplasty

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Complicated Posterior urethroplasty is one of challenging issues in reconstructive urology that make a wide range of difficulty for the patients and its management is so difficult. First we should find what is Traumatic complicated posterior Urethral Stricture.

- Turner-Warwick [1977] define it as (i) strictures >2 cm long and surrounded by dense fibrosis; (ii) strictures associated with extravasation, diverticula, false passages or fistulae; (iii) extensive damage involving the bladder neck.

We [2007] define it in addition to Mr Turner warwick as the 1-Prostatic/Bladder Neck False Passage 2- Simultaneous PFUDD and penile Urethral Stricture 3- PFUDD > 6 Cm, 4- PFUDD and B.N Incompetent

- Koraitim [2014] expanded this definition to include patients in whom a urinoma formed and Kulkarni [2015] explain more the definitions -long defects due to bulbar urethral ischaemic necrosis (BUN)- boys aged ≤12 years- double block at the bulbomembranous urethra (BMU) and (BNP) junction- patients with a recto-urethral fistula (RUF)

- By above definitions we should find its best Management and What we can do for better Result. It seems that following steps are very important:

  - Full Radiological Evaluation RUG, VCUG, US, MRI,..
  - Using Flexible Cystoscopy, Preoperatively for proximal and distal Urethra evaluation
  - Seriously recommend to Do not Use Metal Sound to open proximal Urethra
  - Using Flexible Cystoscopy, During Operation to get help for proper proximal urethral opening and anastomosis
  - Abdominoperineal approach with Bladder Neck release and Omental Flap if needed

We reviewed all these steps in the article published in 2008(1).

Reviewing recent papers also shows using metal sound in posterior urethroplasty for complex cases are harmful and make false passages(2). Altogether the Traumatic complicated urethral strictures need precise evaluation, reconstructive urology principles and appropriate instruments during operation.
Reference:


2- Prabhu MK, Sinha M, Krishnamoorthy V.: False urethral anastomosis, Department of Urology, NU Trust, Padmanabhanagar, Bangalore, :Indian J Urol, 2012 Apr

3- George D. Webster et al, Simple perineal and elaborated perineal posterior urethroplasty, AJU (2015) 13, 17–23