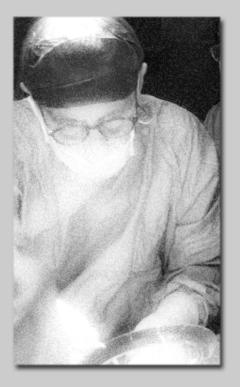
Center for Reconstructive Urethral Surgery

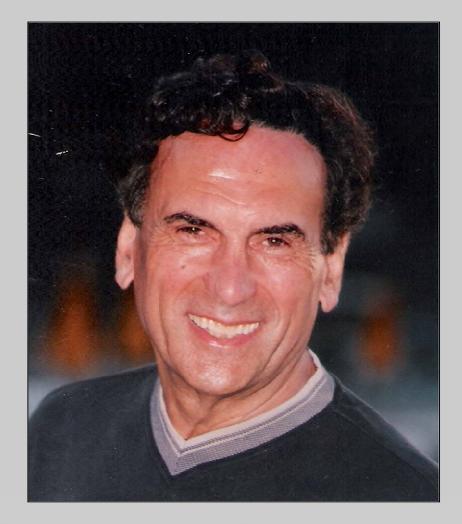


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3rd SURGICAL WORKSHOP OF CUGRS



Complex Uro-Genital Reconstructive Surgery

Belgrade – Serbia

29 - 30 October 2010

Failed hypospadias repair

How often it is and how to prevent it?



Failed hypospadias repair

How often it is?



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" Strictures in adults who had a hypospadias repair is a growing industry "

Andrich DE and Mundy AR, Eur Urol 2008, 54:1031-1041



Dear Colleaguer,

The European Center for Failed Hypospadias Repair is pleased to invite you to the

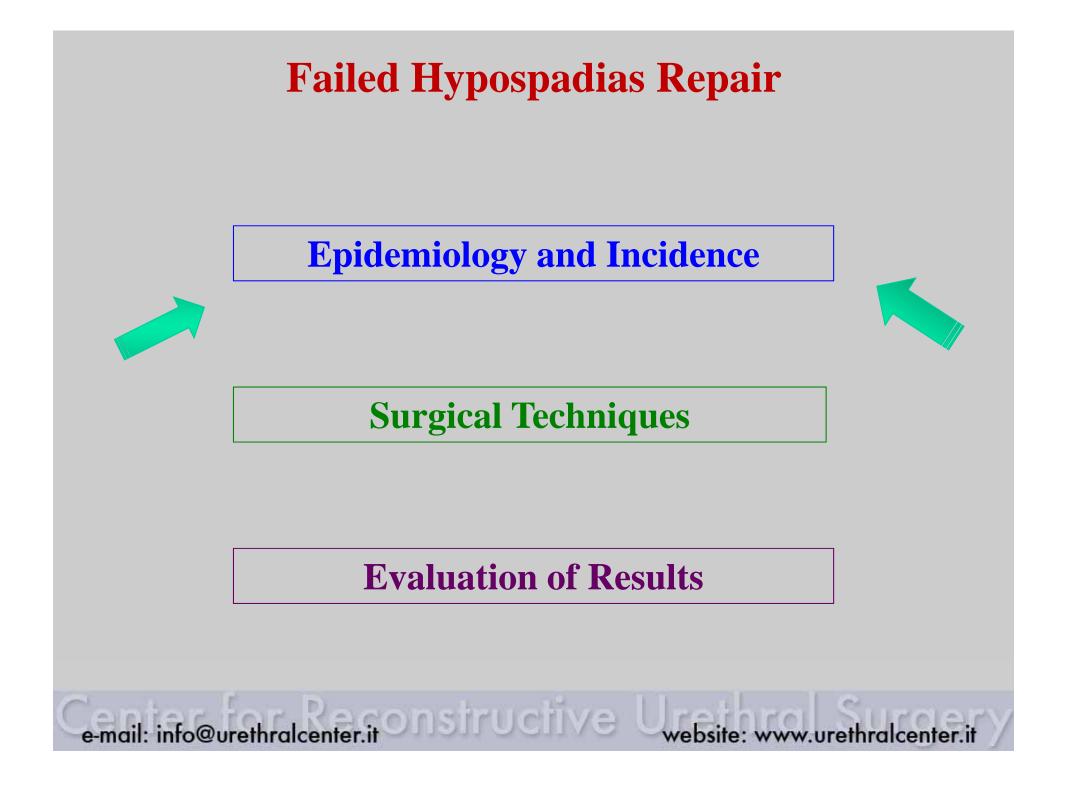
STINTERNATIONAL CONFERENCE ON FAILED HYPOSPADIAS REPAIR

SEPTEMBER, 18th 2010 in AREZZO, ITALY.

We look forward to welcoming your



Failed Hypospadias Repair



Object of the Conference on Failed Hypospadias Repair

To organize three permanent international scientific

committees to collect, to elaborate and publish data on Failed

Hypospadias Repair



1176 patients

The Center for Reconstructive Urethral Surgery

Arezzo - Italy

223 patients

e-mail: info@urethralcenter.it



V =

The University Children's Hospital

Belgrade - Serbia

953 patients

Original Paper



e-mail: info@urethralcenter.it

Urol Int 319856 DOI: 10.1159/000319856 Received: May 10, 2010 Accepted: May 21, 2010 Published online:

Surgical Challenge in Patients Who Underwent Failed Hypospadias Repair: Is It Time to Change?

S. Perovic^{a,†} G. Barbagli^b R. Djinovic^a S. Sansalone^c S. Vallasciani^b M. Lazzeri^d

^aDepartment of Urology, Clinical Centre Zvezdara, University of Belgrade, Belgrade, Serbia; ^bCenter for Reconstructive Urethral Surgery, Arezzo, ^cDepartment of Urology, University Tor Vergata, Rome, and ^dDepartment of Urology, Santa Chiara-Firenze, Florence, Italy



Patients with urethral stricture diseases: 1510

Failed hypospadias repair: 223 (14.7%)

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Barbagli G et al., J Urol 2010, 183:207-211



Patients with penile urethral stricture diseases: 437



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Failed hypospadias repair: 223 (51%)

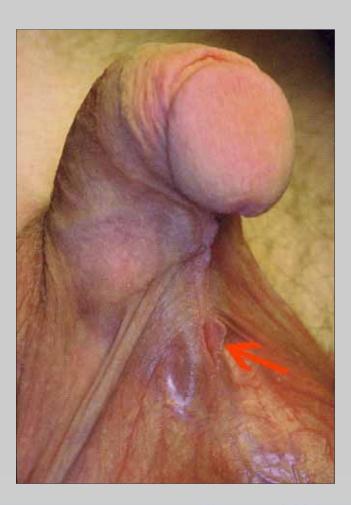
Barbagli G et al., J Urol 2010, 183: 207-211

Failed hypospadias repair



How to prevent it?

Our experience showed two different populations in which attempts at hypospadias surgical correction failed



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12

Patients showing multiple penile deformities caused by:

- **Error in evaluation**
- **Error in design**
- > Error in surgical technique
- > Error in postoperative care



Patients showing multiple penile deformities caused by:

- **Error in evaluation**
- **Error in design**

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- > Error in surgical technique
- > Error in postoperative care



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These patients should be classified as "complications" after hypospadias surgery

Patients showing a satisfactory final outcome having:

- Cosmetically acceptable meatus
- No evident penile deformities such as fistula or chordee

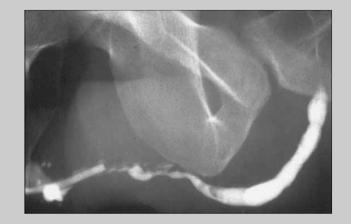




Patients showing a satisfactory final outcome having:

Satisfactory penile appearance

No evident penile deformities such as fistuala or chordee



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Urethral stricture

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These patients should be classified as "natural evolution" over time of hypospadias repair

Failed hypospadias repair



"Complications" of surgical repair

"Natural evolution" of surgical repair

How to prevent it?

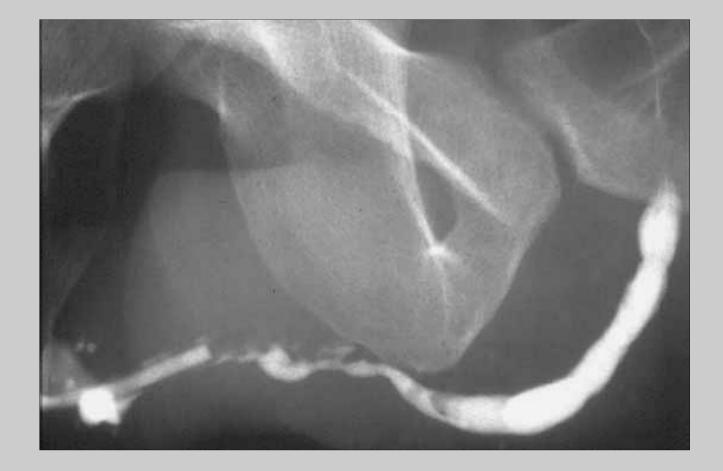
How to prevent "complications" in hypospadias repair?



How to prevent the disastrous "natural evolution" of hypospadias repair?

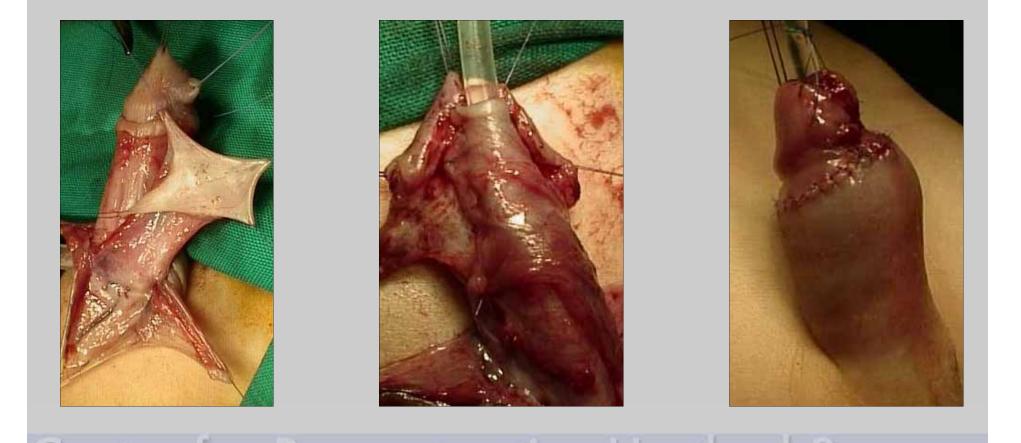


Why hypospadias repair deteriorate over time?





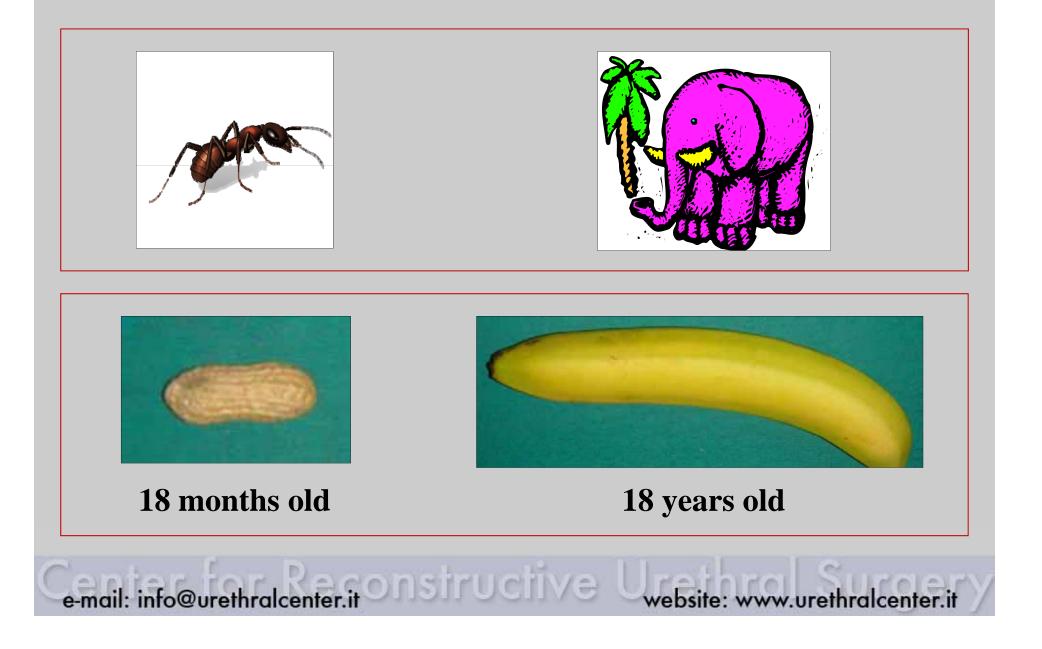
The pediatric urologist maintains that: "The neo-urethra I construct in the child will follow the growth of the penis into adulthood "



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Have you ever seen an ant become an elephant?



The normal urethra is a spongiosum-made urethra





The urethra in the patient who underwent hypospadias reconstruction is a skin-made urethra





What is the the difference between the spongiosum-made urethra and the skin-made urethra Ve

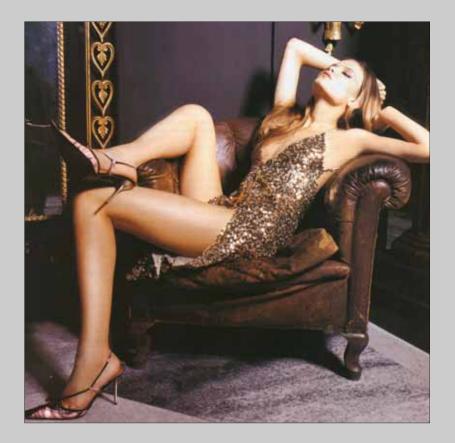
As far as urinary function is concerned, the reconstructed skin-made urethra is able to work as a normal spongiosum-made urethra



Pediatric surgeons and parents are very satisfied with the outcome.....



....but, unfortunately, the urethra is a part of the penis...



...and when children reach full sexual maturity, problems come ...

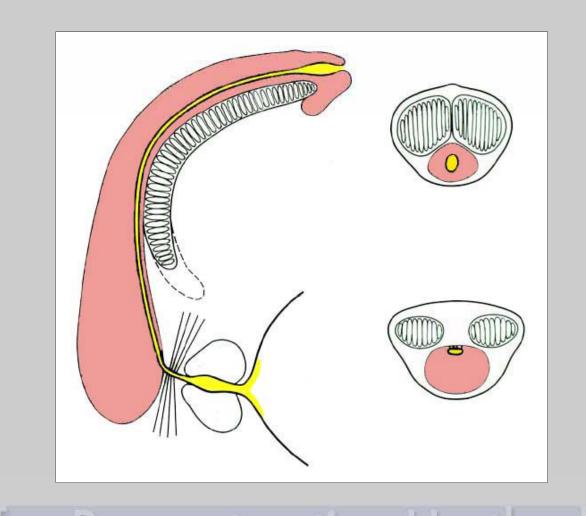


...and the skin-made urethra over time will be KO!

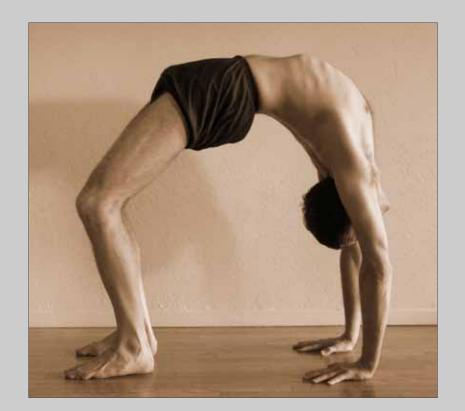




The skin-made urethra is not surrounded by the soft, well vascularized corpus spongiosum ...



... and this skin-made urethra does not tolerate the repeated mechanical stretch and trauma during erection and sexual activity





During sexual activity, the corpus spongiosum is to the urethra what the airbag is to the body during a car accident





The lack of spongiosum tissue promotes urethral deterioration over time







Hypospadias surgery is now at its end-point



Pediatric urologists' triumph over the results of hypospadias repair in childhood is not justified

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Success in hypospadias surgery is not measured in one or even in five years

In order to collect more detailed epidemiological data, **pediatric surgeons** are invited to publish the long-term results (> 20 years) of hypospadias surgery performed in their hospitals





How to prevent the disastrous "natural evolution" of hypospadias repair?



Hypospadias surgery will have improved only when corpus spongiosum is made available, and a new spongiosum-made urethra can be transplanted in the patient



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Next month, this lecture will be fully available on our website

Thank you !

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