

# The Use of Oral Mucosa

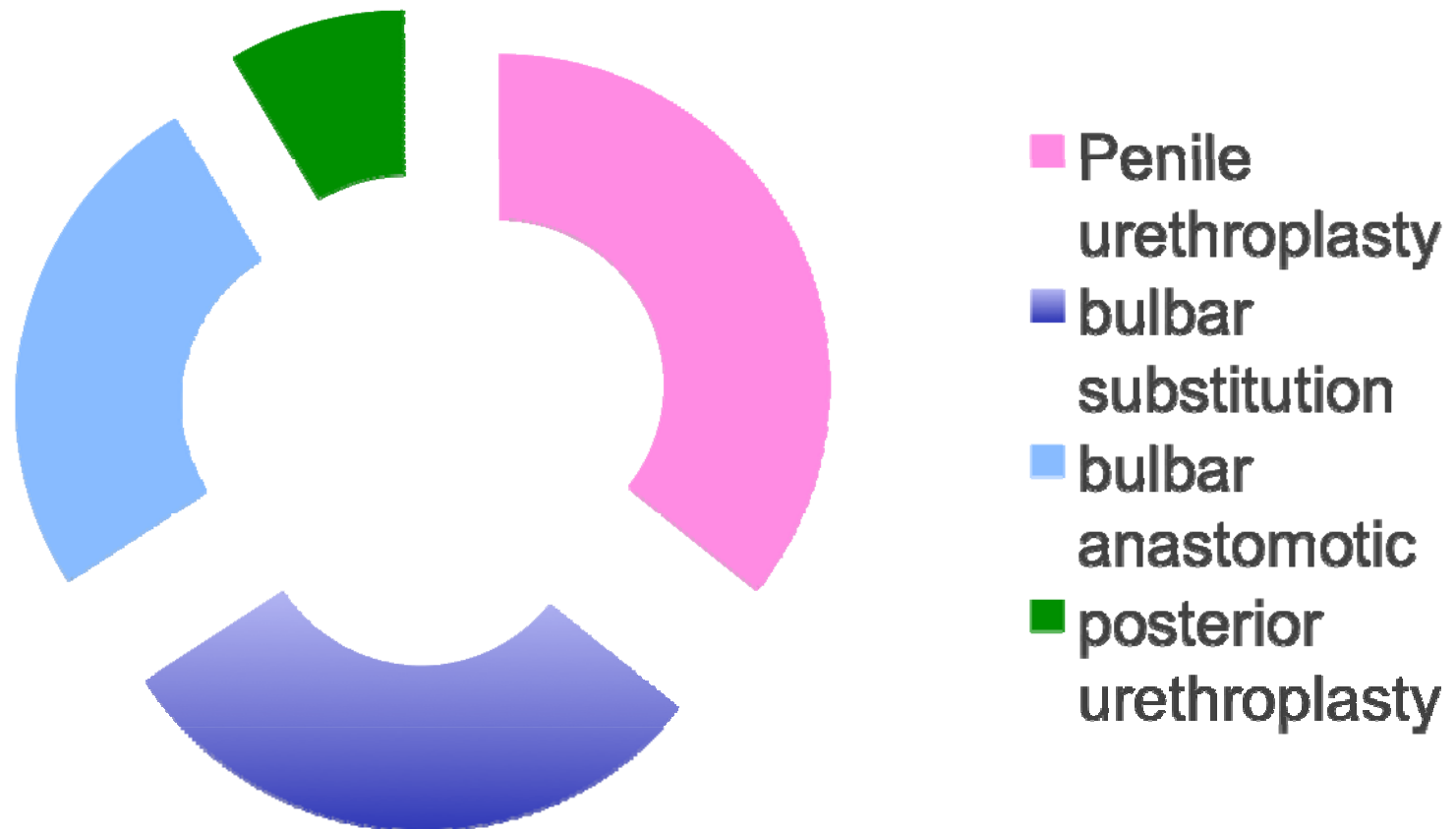
D.E.Andrich

Institute of Urology

London

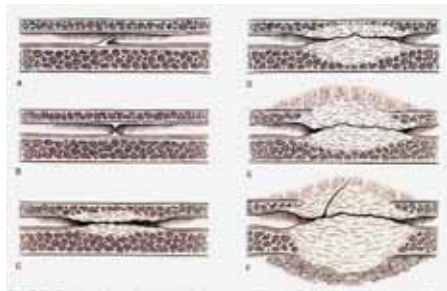
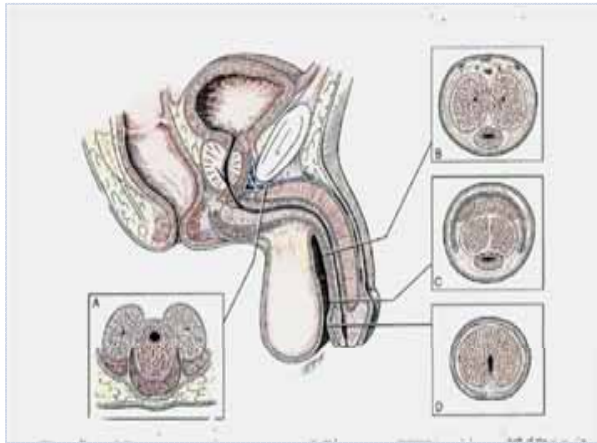
# Urethroplasty in the UK

13 / Mio Population



# Anterior Urethroplasty

## ANATOMY: EXTENT & SEVERITY of stricture



## AETIOLOGY

- **Hypospadias** repair recurrent stricture (ischaemic old skin flap)
- **BXO** (skin disease affecting keratinising epithelium leading to severe spongiofibrosis)
- **Catheter** stricture (ischaemic/infective)
- **Infective**
- **Traumatic** (ischaemic transmural)

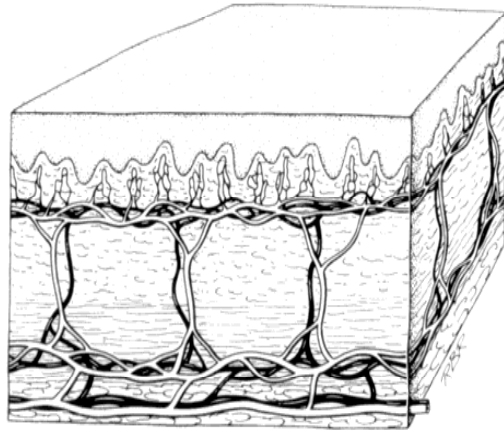
## SURGICAL TECHNIQUE

- **PENILE**
- **One-stage Graft repair**, typically BXO only affecting fossa (uncommon)
- **Two-stage Graft repair**, typically BXO or ischaemic skin flap from previous hypospadias repair
- **One-stage Skin Flap repair (Orandi)**, typically catheter stricture (uncommon)
- **BULBAR**
- **Anastomotic bulbar urethroplasty**; **ALL** traumatic strictures, short Idiopathic strictures
- **Substitution (Graft) bulbar urethroplasty**, long strictures
- **Primary Scrotal inlay flap bulbar urethroplasty**, (rarely used these days)
- **Perineal Urethrostomy**, typically used in the elderly with long peno-bulbar strictures

# Which graft ?

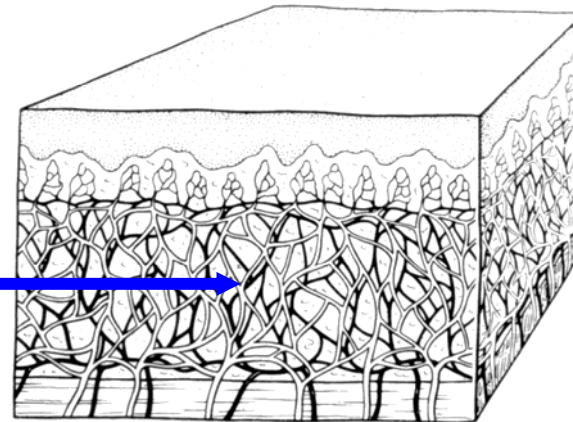
- Buccal Mucosal Graft (> 98%)
- Lower lip mucosal graft
- Lingual mucosal graft
- Full thickness Skin graft from behind the ear
- Foreskin graft

# Skin versus Mucosa



Skin

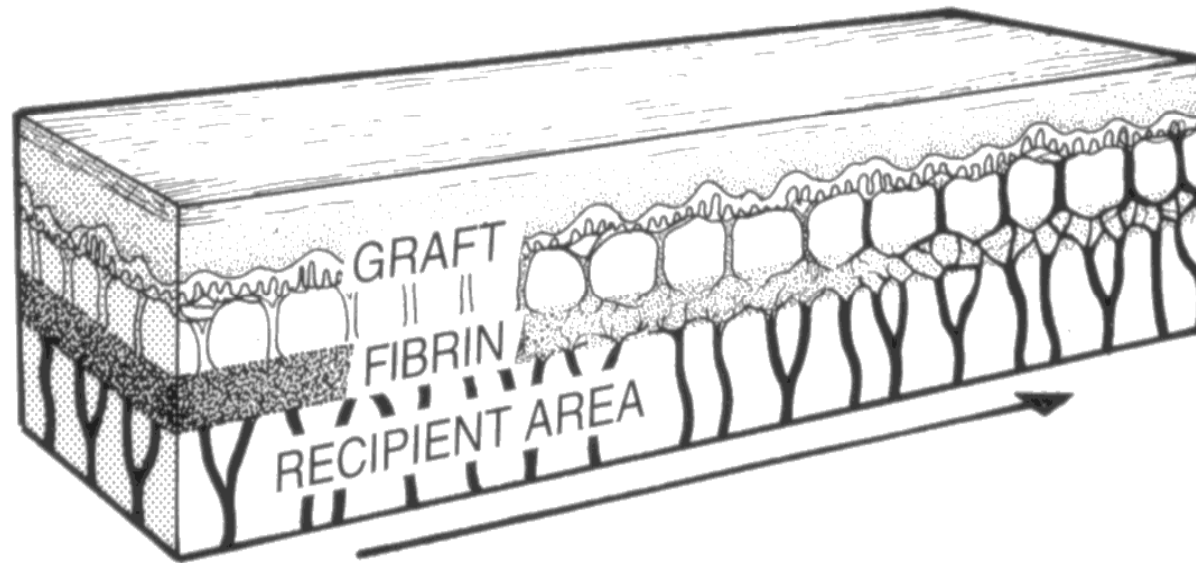
Dense  
pandermal plexus



Mucosa

# Graft Take

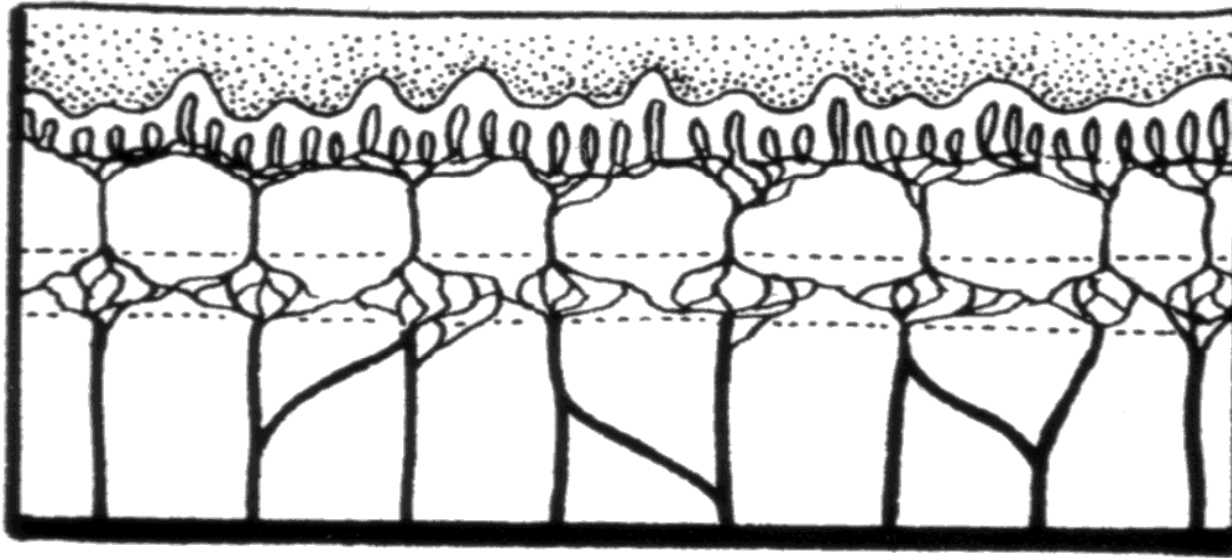
## Imbibition and Inosculation



0 ——— days ———> 4

Quality of recipient bed is critical

# Graft Take



Close contact → rapid vascularisation

Careful immobilisation is critical



## Two-Stage BMG Penile Urethroplasty 1<sup>st</sup> stage



# Two-Stage Graft Reconstruction

Pre-op



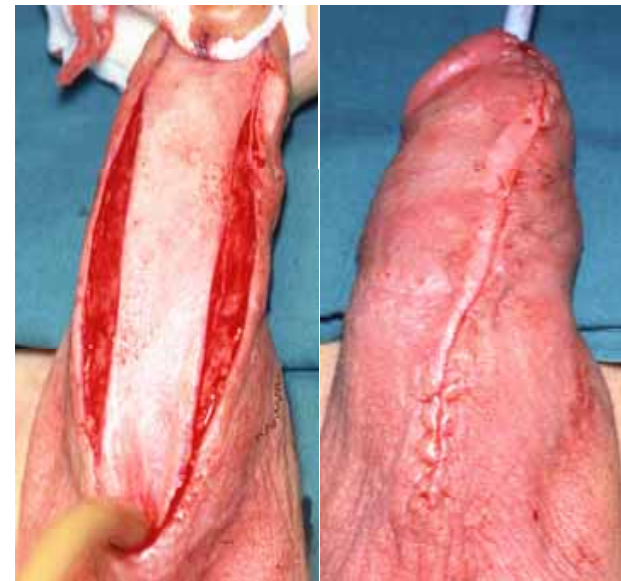
1<sup>st</sup> stage



After 6/12



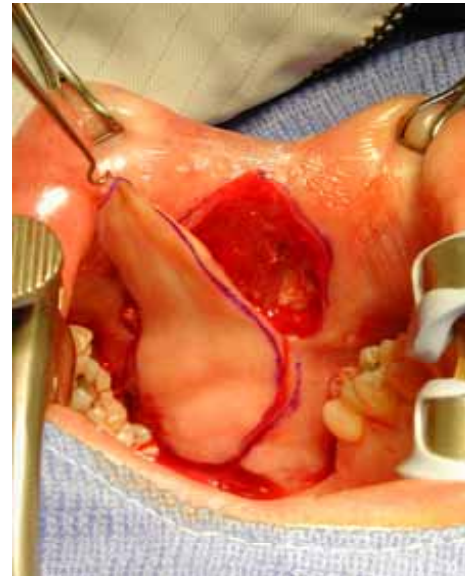
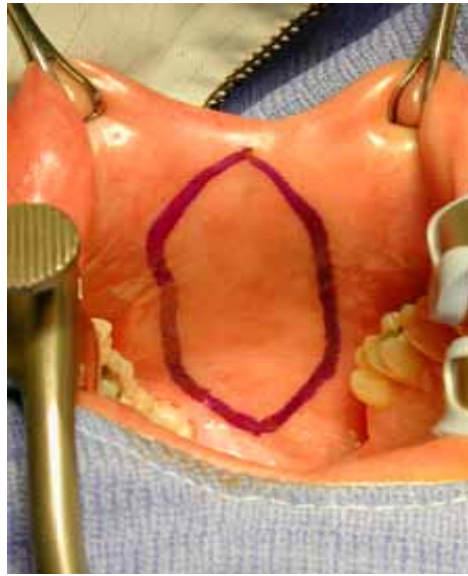
2<sup>nd</sup> stage



# Why Buccal Mucosa?

- It is easy to harvest
- It is tough and resilient to handle
- There is enough of it
- It 'takes' well
- There is minimal morbidity with the donor site
- It is accustomed to being wet
- It appears to have anti-bacterial properties
- It is resistant to certain skin diseases (BXO)

**Primary  
closure**



**Healing by  
2<sup>nd</sup> intention**

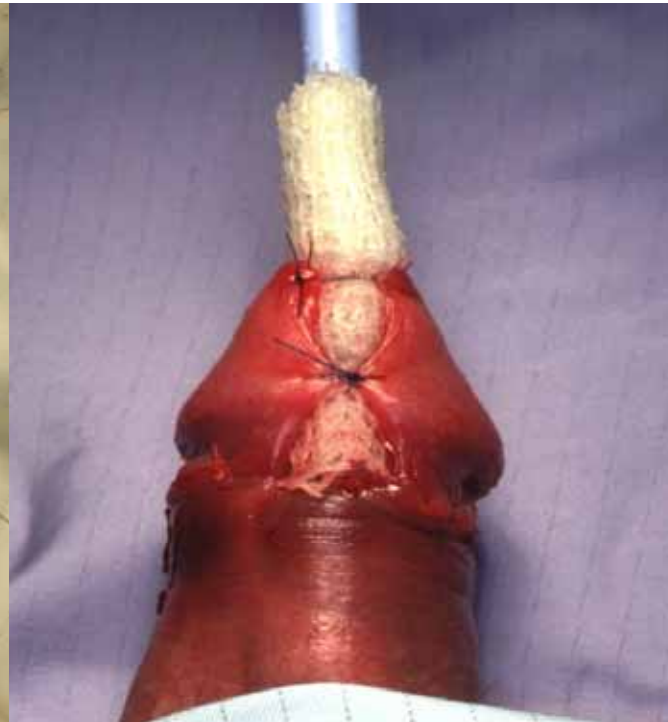
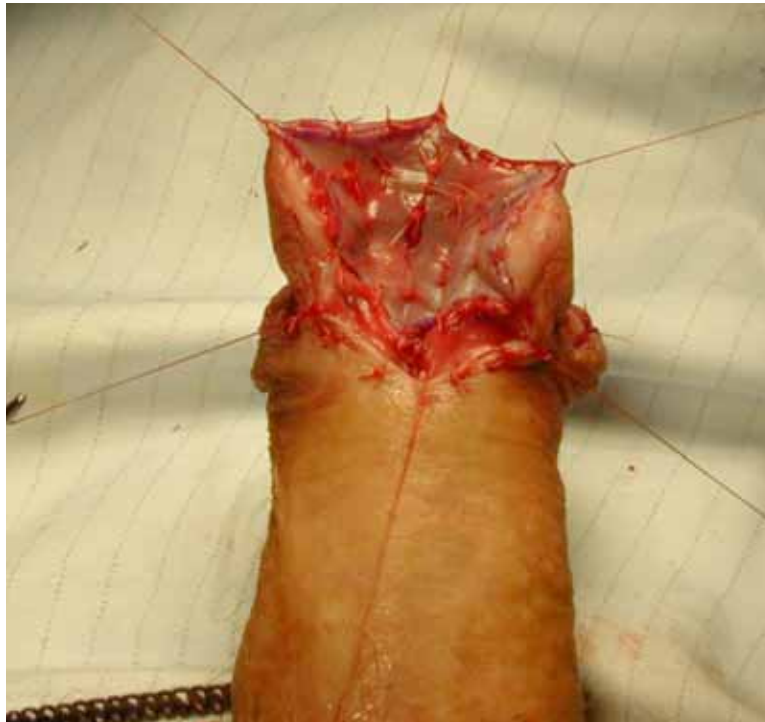


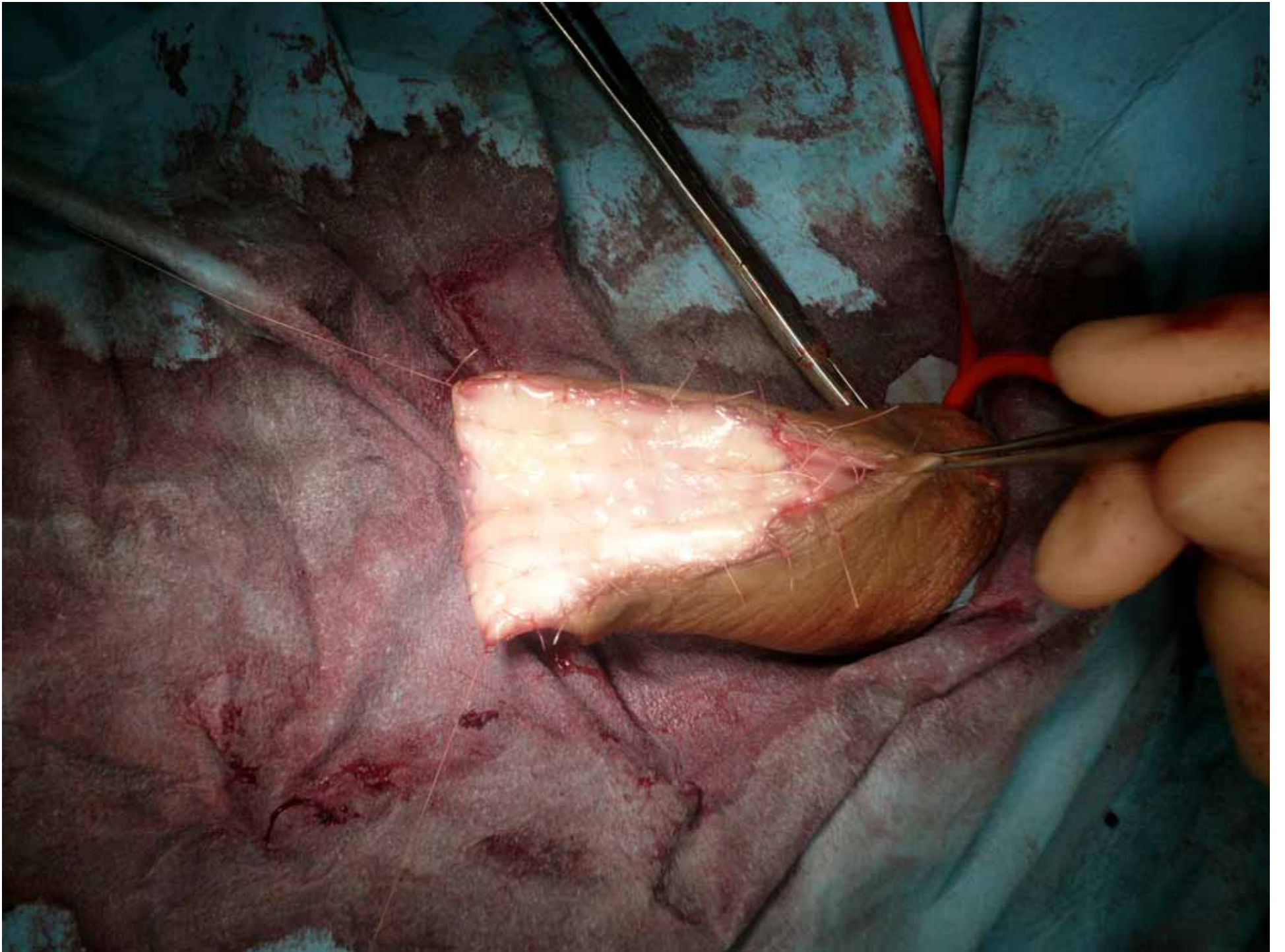
# Two Stage Reconstruction with BMG

**1<sup>st</sup> stage:  
BMG inlay of deepened  
glans cleft**

**Tie-over dressing  
For 3-4 days**

**Cosmetic result  
after 2<sup>nd</sup> stage**

















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