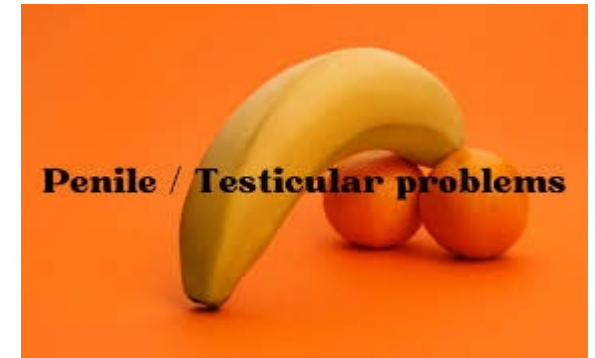




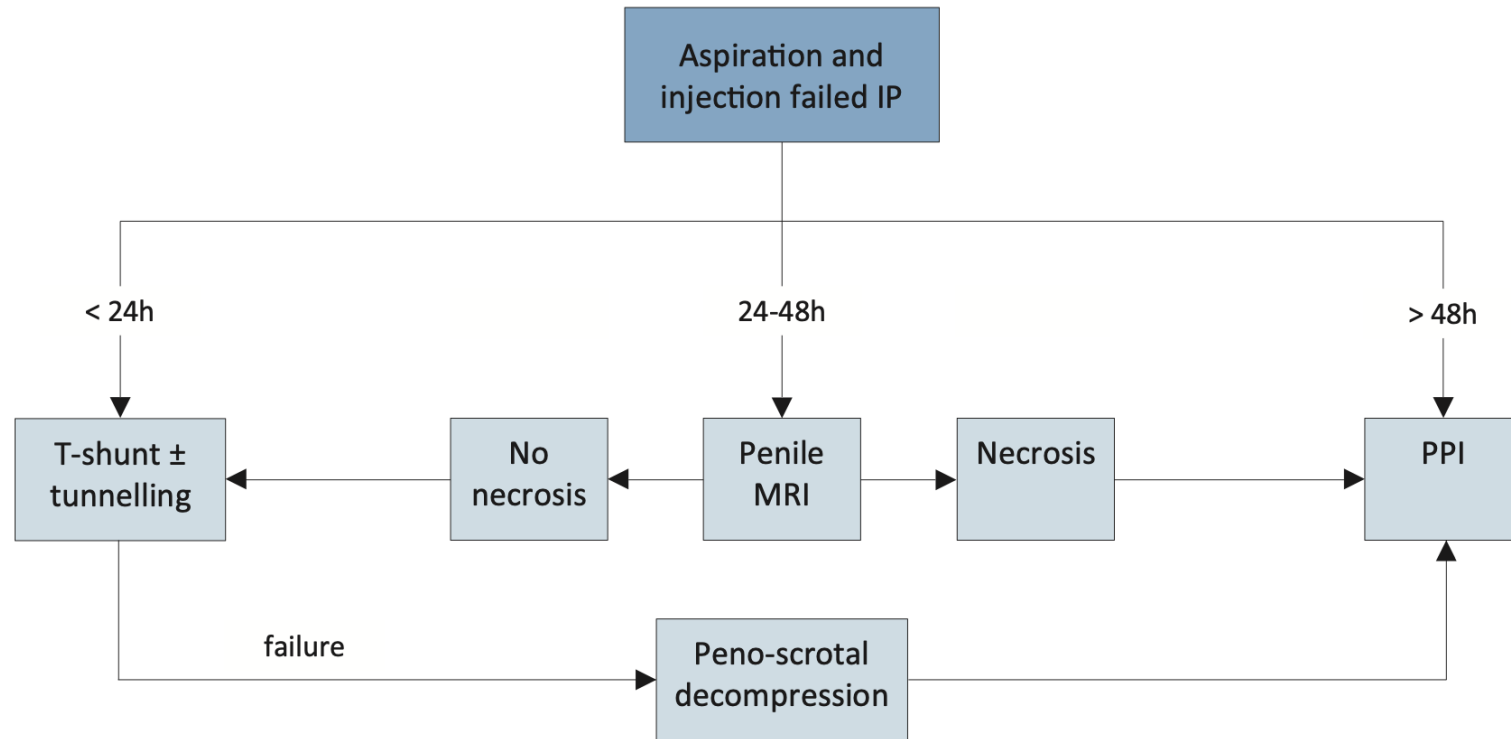
Bristol Urological Institute

Everything you need to know about the male external genitalia



Miss Ayo Kalejaiye
Consultant Andrologist
North Bristol NHS Trust

Figure 14: Algorithm on surgical management of priapism



MRI - Magnetic resonance imaging; PPI = penile prosthesis implantation.

Priapism

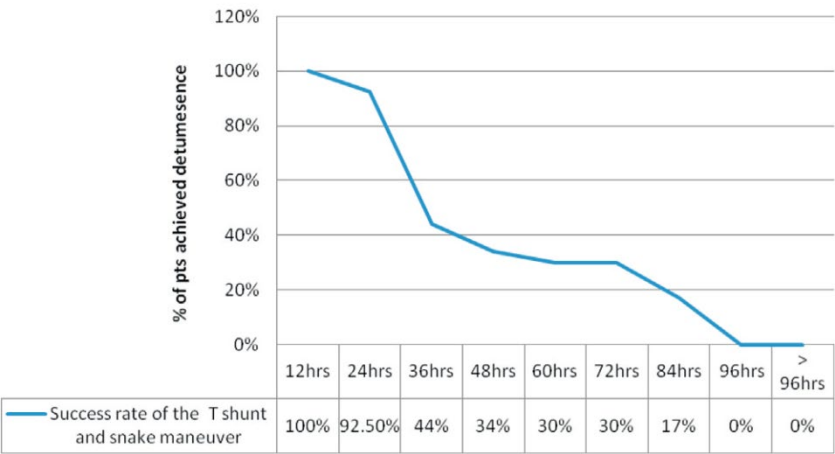
Efficacy of the T-shunt and intracavernosal tunnelling



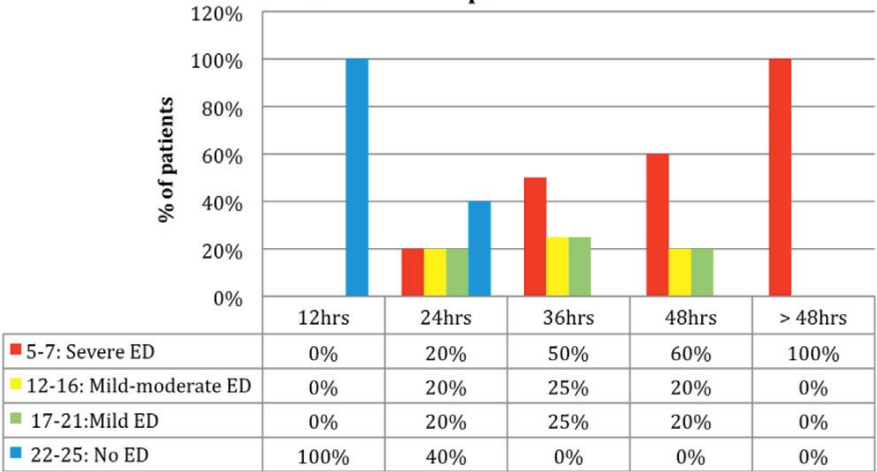
45pts

ischaemic priapism
failed conservative measures

Success rate of the T shunt and 'snake' maneuver



IIEF-5 score 6 months post T shunt



Zacharakis E, Raheem AA, Freeman A, Skolarikos A, Garaffa G, Christopher AN, et al. The efficacy of the T-shunt procedure and intracavernous tunneling (snake maneuver) for refractory ischemic priapism. J Urol. 2014;191(1):164-8.

Penile Fracture









Outcomes

	Conservative	Surgical
Overall	48%	21%
Erectile dysfunction	22%	1.9%
Penile curvature	13%	2.7%

Penile Fracture

- Buckling trauma
- Classically:
 - Cracking/snapping sound during sex
 - Immediate detumescence
- 30% have urethral involvement
- Clinically:
 - Peno-scrotal bruising (aubergine abnormality)

Outcomes

	Conservative	Surgical
Overall	48%	21%
Erectile dysfunction	22%	1.9%
Penile curvature	13%	2.7%



Risk Factors

- Age > 50yrs
- Male/Female ratio: 10:1
- Diabetes Mellitus
- ET-OH XS
- Drugs: chronic steroid use, cytotoxic drugs
- Malignancy
- Malnutrition
- HIV
- Lymphoproliferative disease

Clinical Features

- Sudden pain & swelling in scrotum
- Purulence or wound discharge
- Crepitus
- Fever $>38^{\circ}\text{C}$
- Characteristic faeculant/putrid odour
- Sepsis
- Multi-organ failure

Sexual Changes following Radical Prostatectomy

- Erectile dysfunction
- Loss of ejaculation
- Orgasmic changes
 - Change in sensation (50-75%)
 - Pain (10-20%)
 - Orgasm associated incontinence (at least 20%)
- Reduction in penile size (around 10-20%)
- Peyronie's (11-16%)

AMS Tactra



Semi-rigid malleable penile prosthesis

Coloplast Genesis



3-piece Inflatable penile prosthesis



Coloplast Titan



AMS cx 700

Penis

Foreskin: is it retractile?

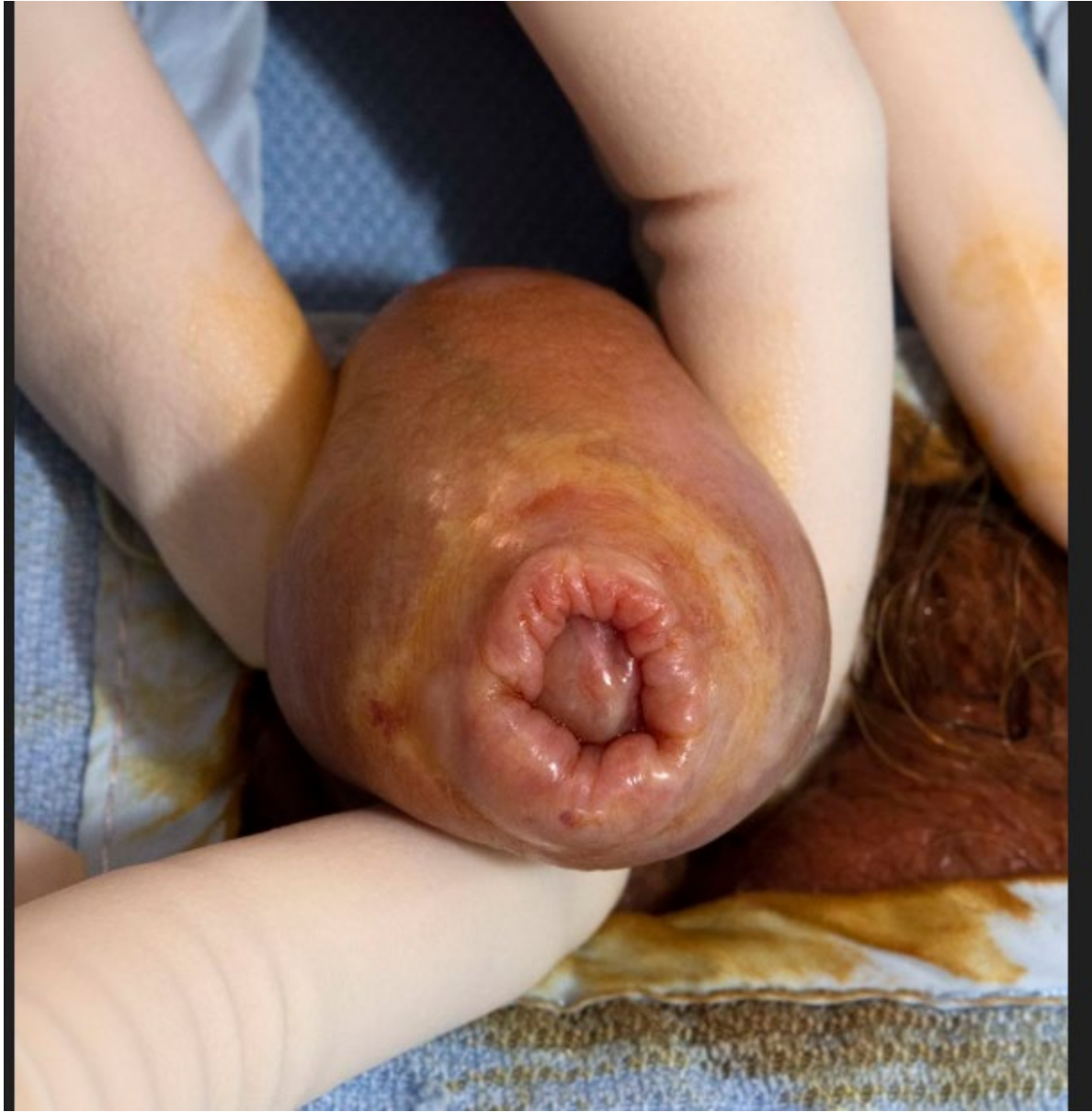
Meatus: position, tight/open?

Glans: mass, redness, pallor

Shaft: mass/ulcer, hardness dorsally

Common pathologies

- Phimosis
- Balanitis
- Lichen Sclerosis
- Penile cancer
- Peyronie's disease







Paraphimosis

- Stuck and retracted below glans
- Manual reduction
- Dorsal slit
- Circumcision



Lichen sclerosus





Benign 'red' lesions

- Zoons
- Lichen sclerosus et Atrophicus (LSA or BXO)
- Condylomata
- Psoriasis



Pre-malignant 'red' lesions

- Pre-cancer
 - PeIN
 - Erythroplasia de Queyrat
 - Bowens disease
 - HPV 16, 18





Penile cutaneous horn

Penile shaft lesion



Penile cancer



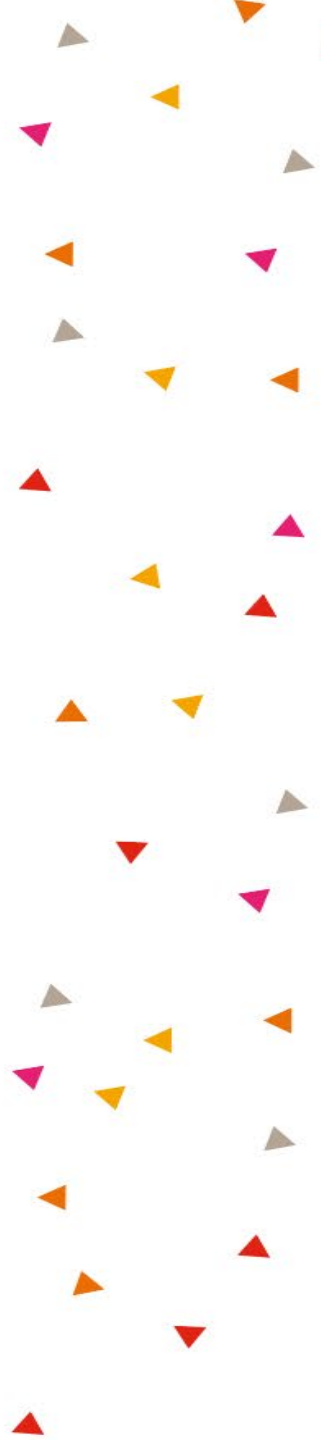
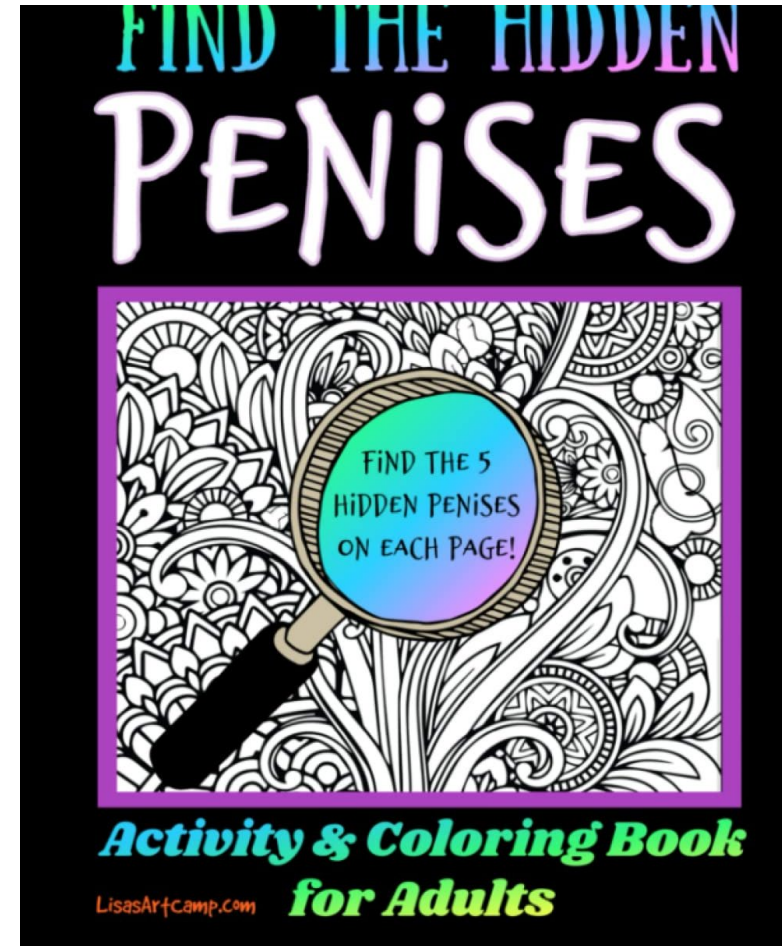
Penile cancer



Radical penectomy & Phalloplasty



The Buried Penis













Surgical Treatment

Indication

- Deformity causing difficulty with intercourse

Considerations

- Is the disease stable
- Is there co-existant ED

When to consider surgery in PD

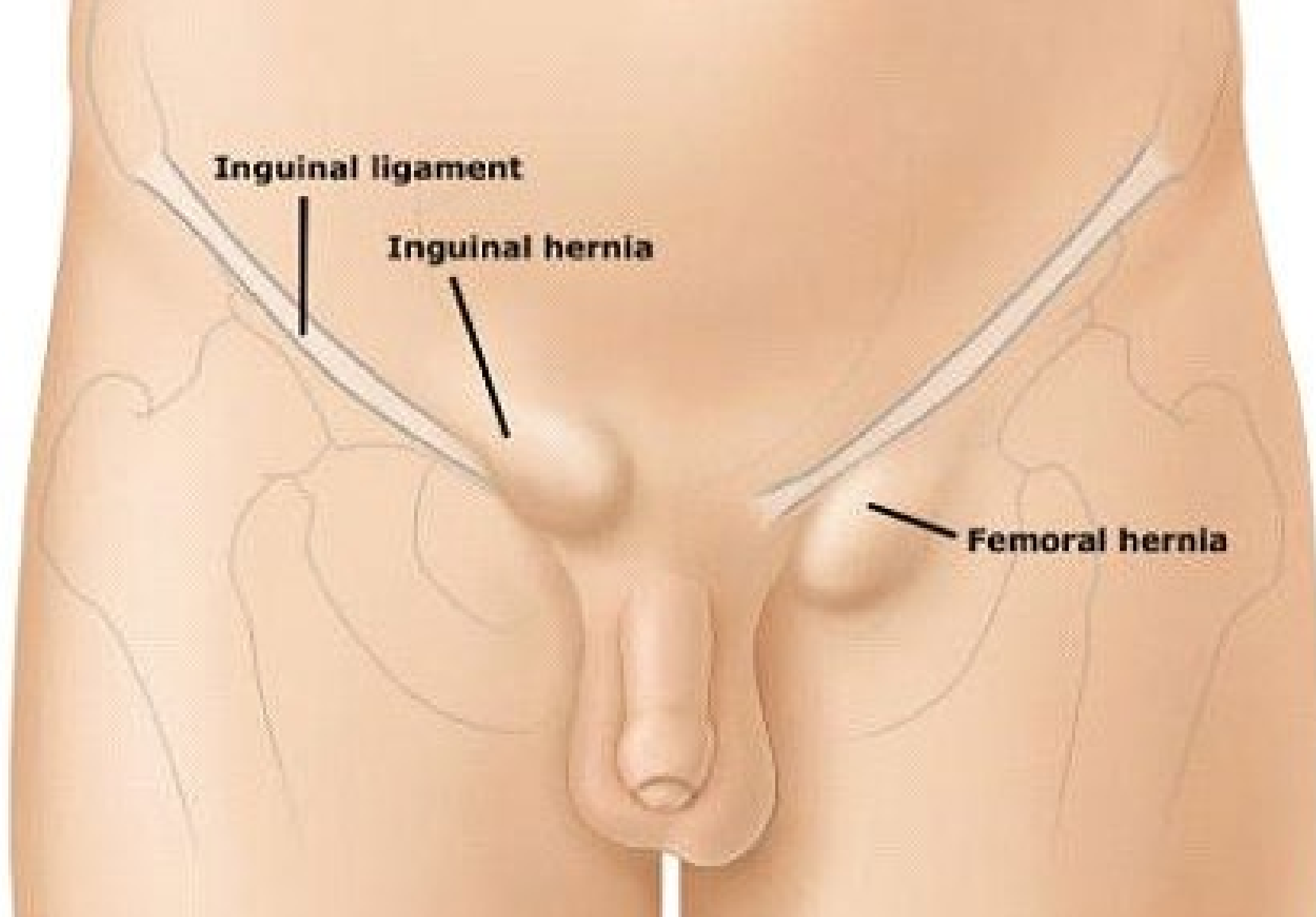
- Patient understands aims of surgery:
 - Curvature correction to allow penetrative sexual intercourse
 - Functionally straight penis
- Significant deformity preventing penetration
- Stable disease for 3-6 months (or >9-12 months from disease onset)

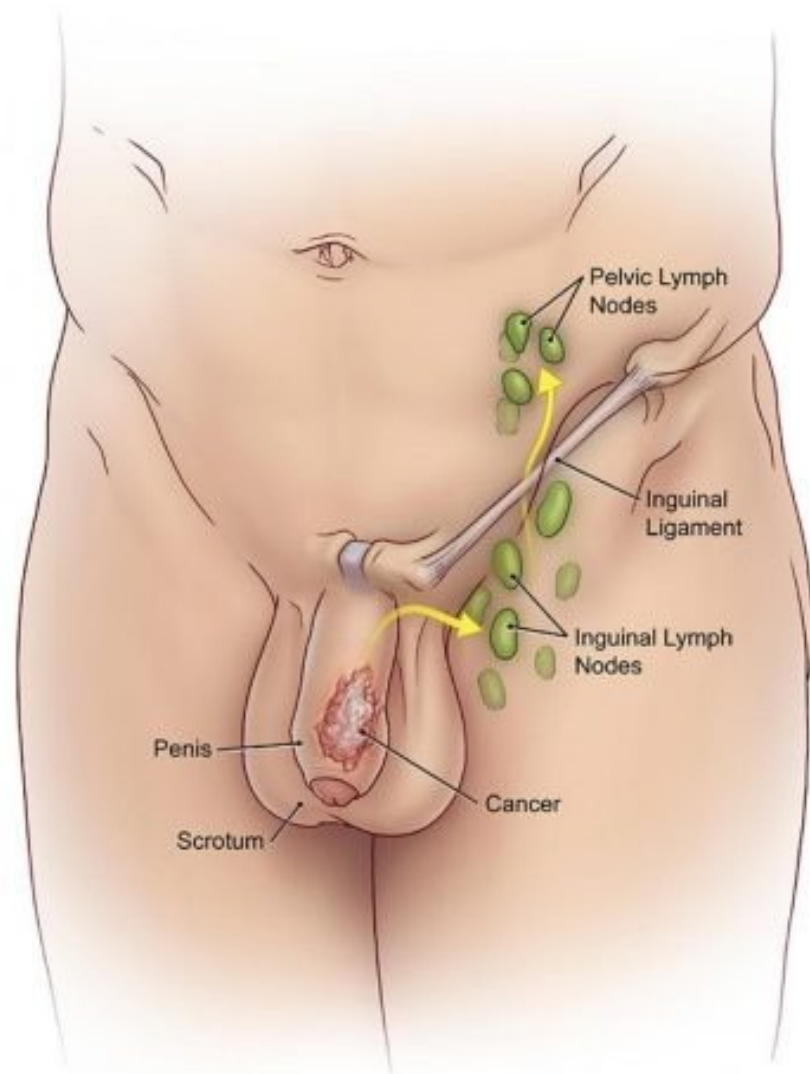
Inguinal lumps

- Hernia
- Lymph nodes
- Hydroceles of the cord
- Undescended testis
- Lipoma of the cord
- Saphenous varix
- Aneurysm
- Psoas abscess

Hernia

- Reducible
- Cough impulse
- Control
- Position





Scrotal swellings

Hydrocele

Epididymal cyst

Varicocele

Tumour

Epididymitis

Torsion

Inguinal Hernia

Differential Diagnosis

- Can you get above it?
- Is it reducible
- Can you feel the testicle separately
- Does it transilluminate



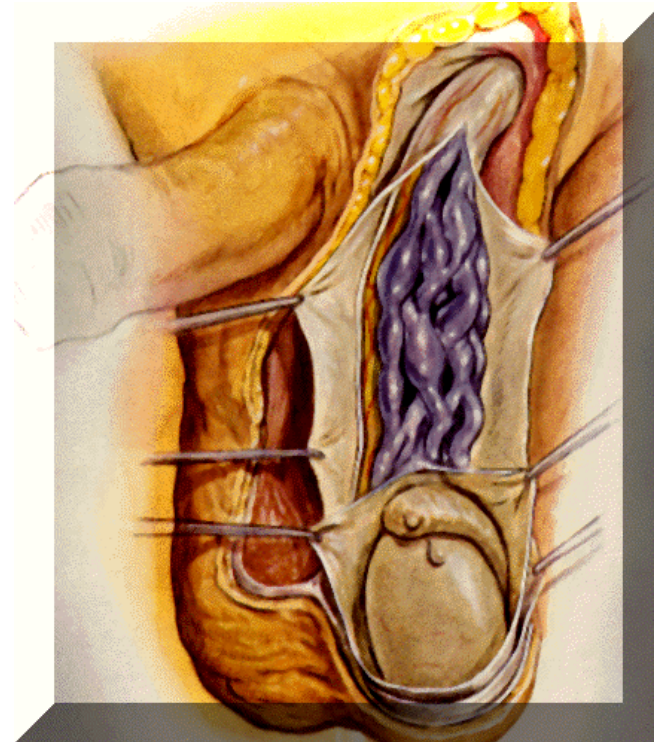








Varicocele





Varicocele - Grading

Grade I – small, palpable only with Valsalva

Grade II – moderate, palpable with patient standing

Grade III – large, visible through scrotal skin

Chronic Testis Pain

- Background
 - 1% incidence in UK
 - Usually presents in late 30s
 - Idiopathic may be due to nerve hypersensitivity or central sensitisation

Assessment

Detailed history & examination

- Nature & duration of pain
- Assess function of all pelvic organs
- Triggering events: surgery, cancer, life events, infection

Investigations

- Exclude infection inc. STI: MSU, STI screen, urethral swab,
- Exclude anatomical abnormalities: USS scrotum, MRI lumbar spine

Potential Causes

Idiopathic 20%

Post vasectomy

Previous
infections

Nerve
entrapment

Neuropathic:
DM

Pelvic floor
dysfunction

Referred pain
from hip, groin,
back, loin

Psychosomatic

Management_ Pelvic Floor Therapy & physical Therapy

- Pelvic floor dysfunction
 - Hypertonicity, myofascial pain
- Treatment options:
 - Pelvic floor relaxation exercises
 - Trigger point release
 - Postural correction & core strengthening

Management_ Behavioural & psychological interventions

- Treatment options:
 - Cognitive behavioural therapy (CBT)
 - Mindfulness based stress reduction
 - Sexual & psychological counselling



Management_Anti-neuropathics

Serotonin-
norepinephrine
reuptake inhibitors
(SNRIs)

Duloxetine (30-
60mg/day)

Alpha-blockers

Tamsulosin
(400mcg/day)

Topical treatments

Capsaicin cream
or lignocaine
patches

Management_ Spermatic cord block



Indications:

Suspected neuropathic pain
Pain unresponsive to medications



Outcomes:

Diagnostic value
Therapeutic benefit: repeat as required
Temporary effects: week to months

Management_Ilioinguinal & genitofemoral nerve block



Indications:

Ilioinguinal or genitofemoral nerve entrapment
(post hernia repair or pelvic surgery)

Neuropathic pain



Outcomes:

Can be effective for months

Helps determine if surgical nerve ablation would
be beneficial

Management_Botox

Indications:

- Pelvic floor dysfunction
- Spasticity related testis pain
- Myofascial pain not responding to physiotherapy

Outcomes:

- Can be effective for 3-6 months
- Reduces hypertonicity and neuropathic pain
- Expensive; not widely available



Thank-you.
Any questions
