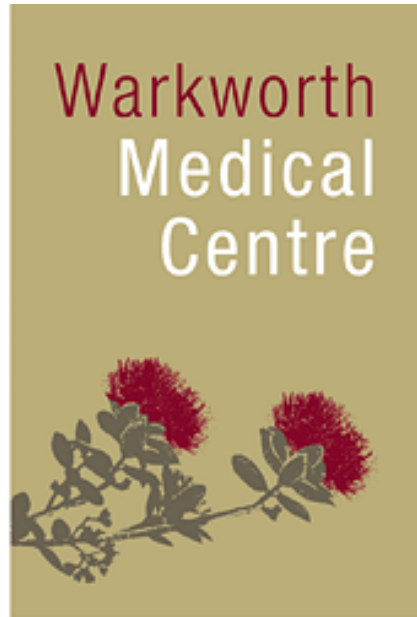


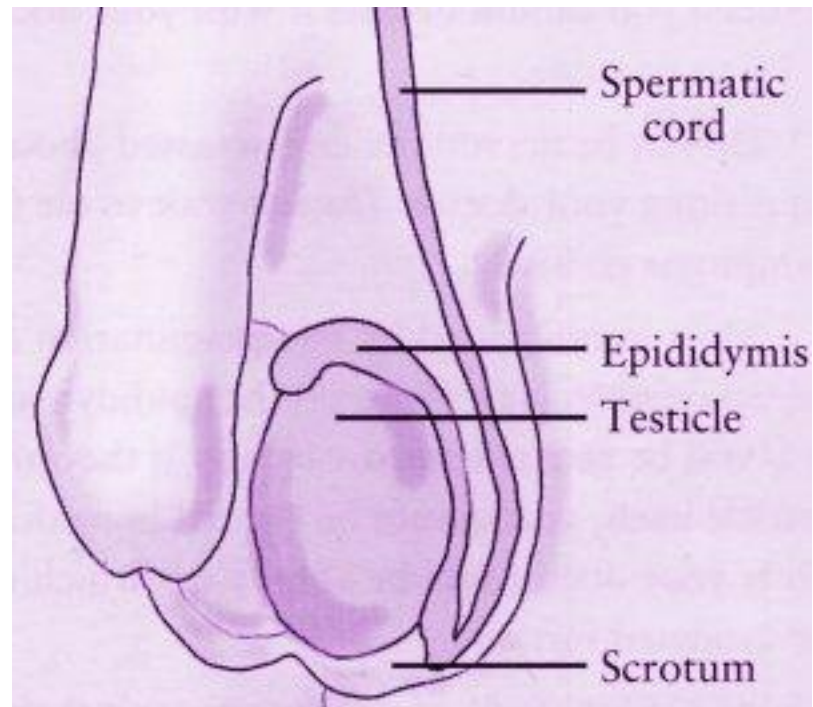
VASECTOMY

Dr Bruce Sutherland



Overview

- Embryology
- Anatomy
- Procedure
- Pre Op consultation
- Post Op care
- Pitfalls



EMBRYOLOGY



Fetus at age 7 weeks

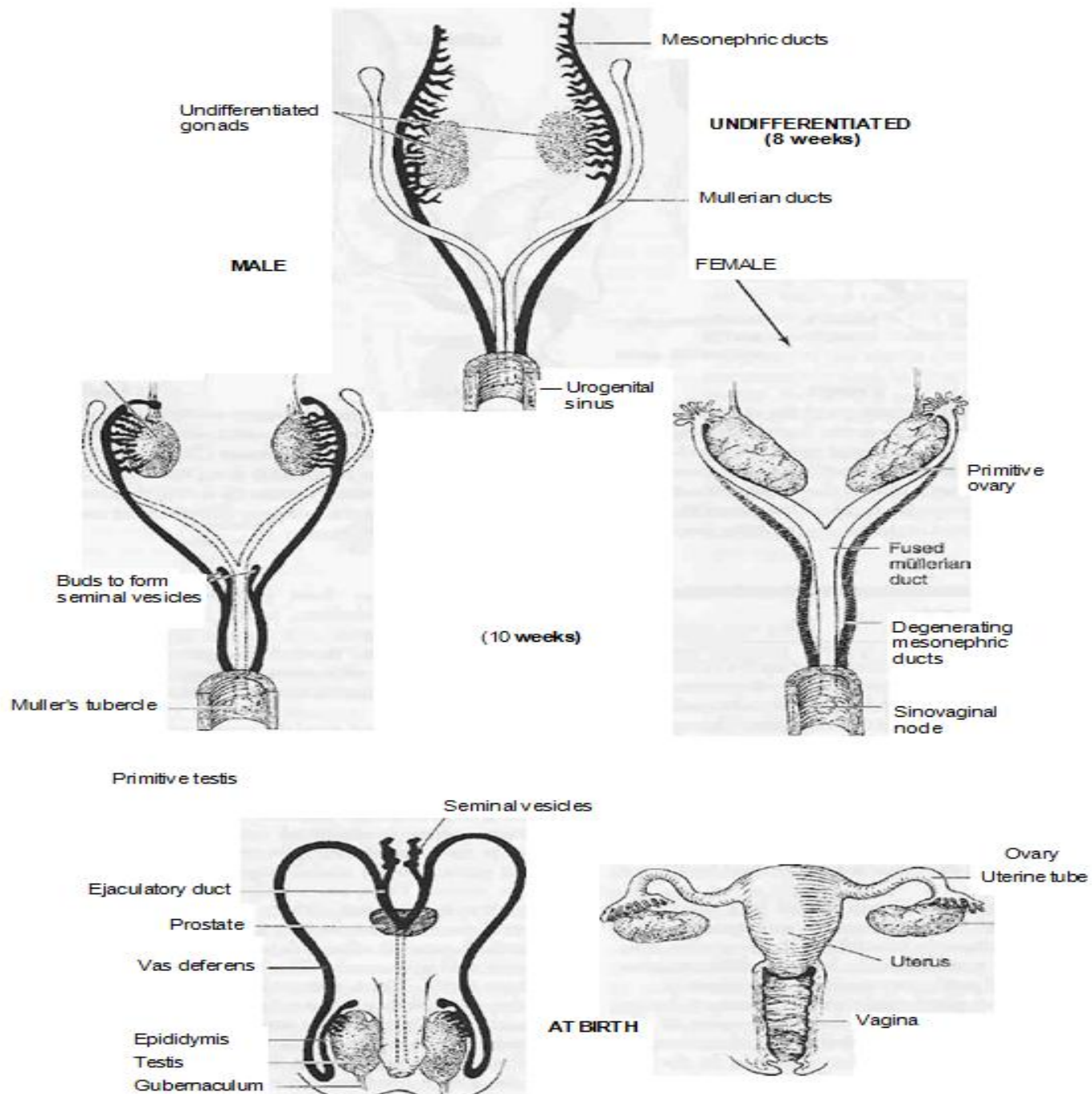


Fig. 20 - Descent of the testis
ca. 2 months

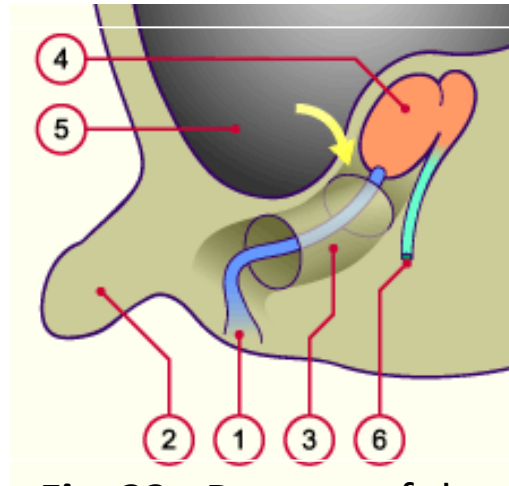


Fig. 22 - Descent of the testis
ca. 7 months

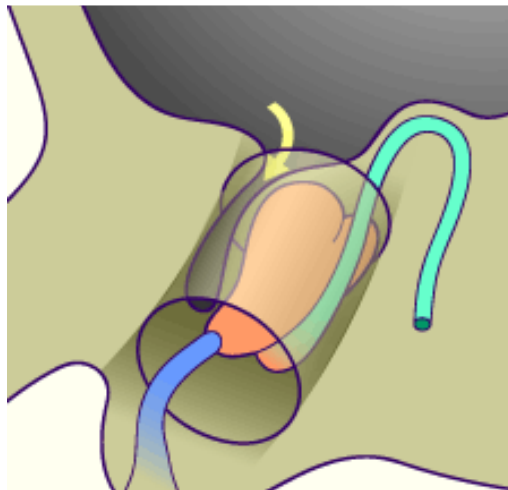


Fig. 21 - Descent of the testis
ca. 3 months

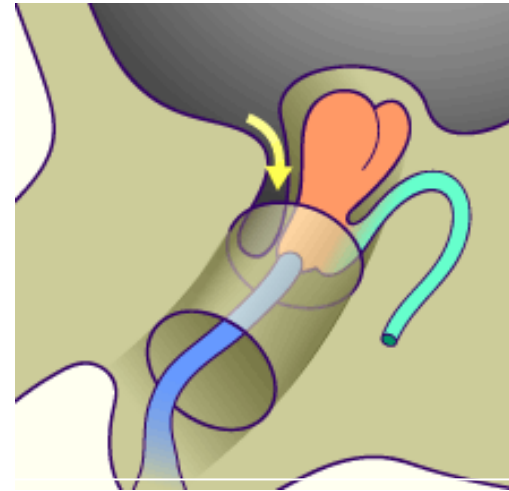
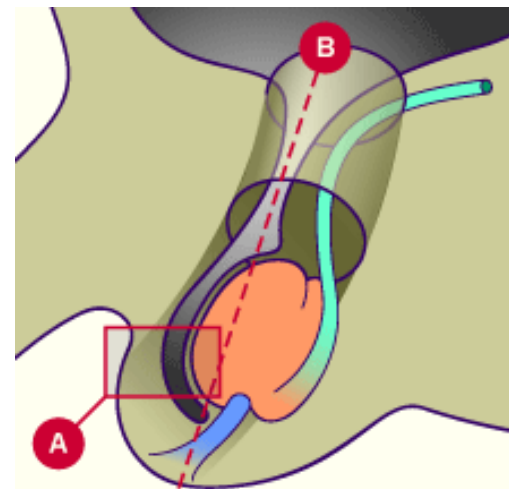
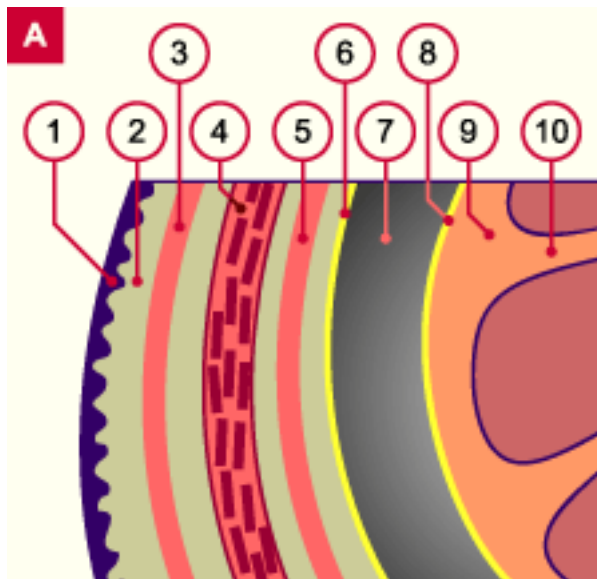


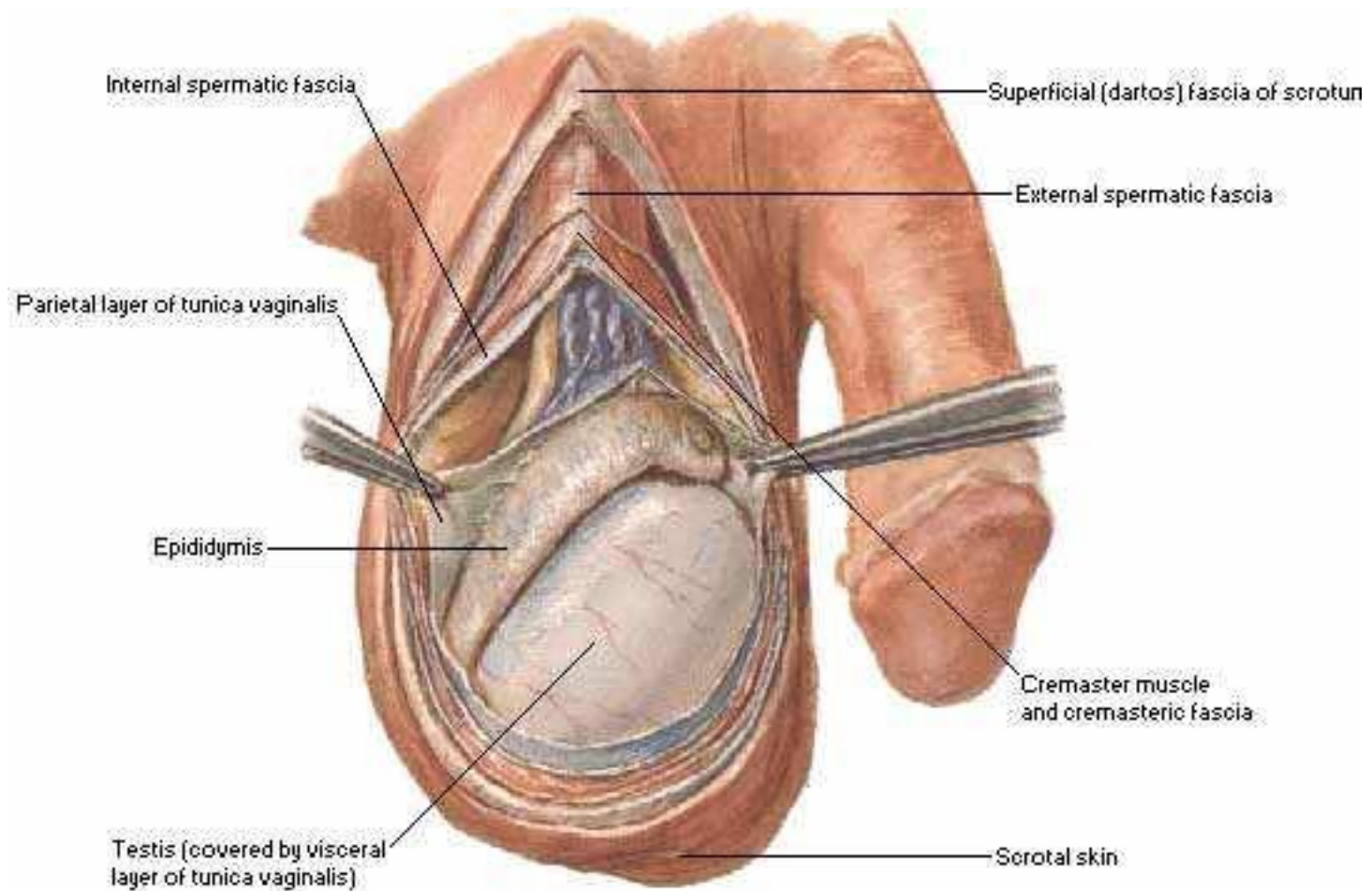
Fig. 23 - Descent of the testis
ca. 9 months



Section through the
scrotum
at the time of birth
according to A



1. Epidermis
2. Dermis (tunica dartos)
3. External spermatic fascia
4. Musculus cremaster
5. Internal spermatic fascia
6. Parietal lamina of the tunica vaginalis
7. Virtual cavity between the two layers of the tunica vaginalis
8. Visceral lamina of the tunica vaginalis
9. Tunica albuginea
10. Interlobular septum of the test



EXTERNAL
ABDOMINAL
RING

ACCESSORY
SLIP OF
ORIGIN OF
CREMASTER
MUSCLE

SPERMATIC
CORD

CREMASTER
MUSCLE

SEPTUM OF
SCROTUM

DARTOS

SCROTUM

RAPHE

VAS
DEFERENS

SPERMATIC
ARTERY

NERVE FILAMENTS
OF SPERMATIC
PLEXUS

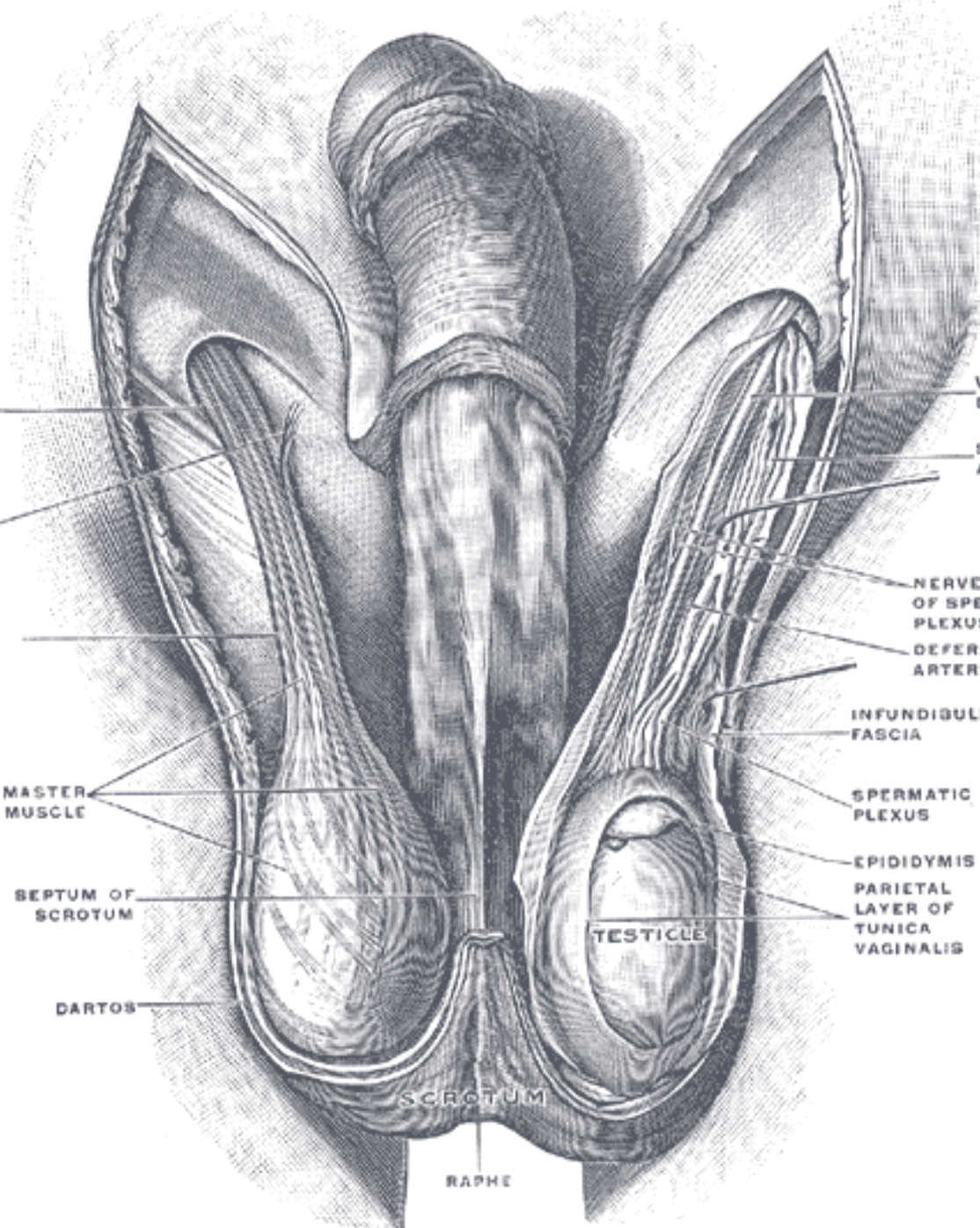
DEFERENTIAL
ARTERY

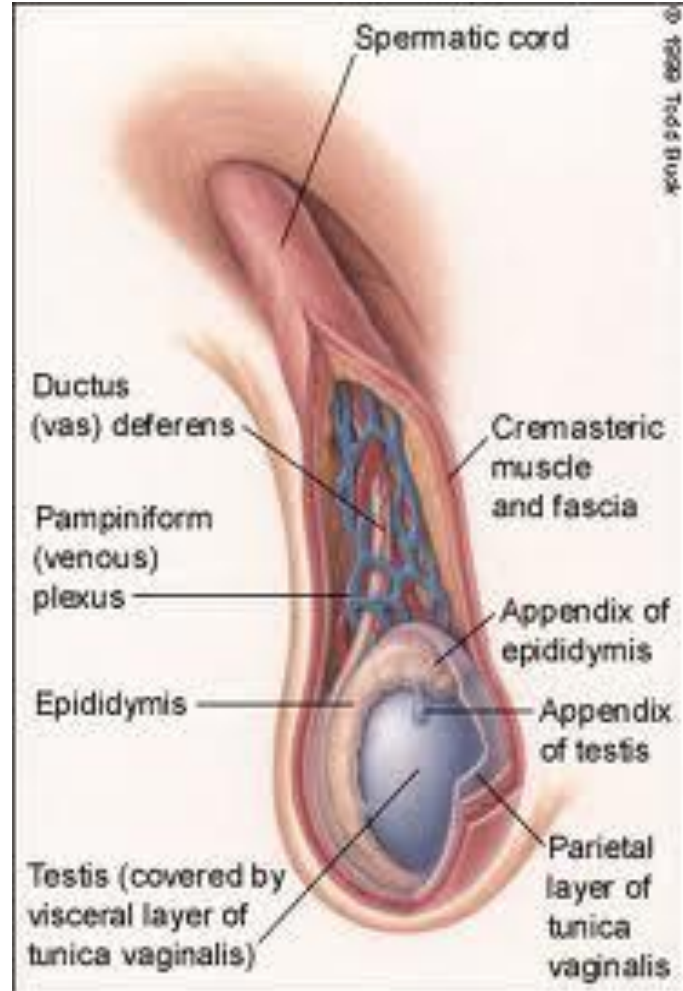
INFUNDIBULIFORM
FASCIA

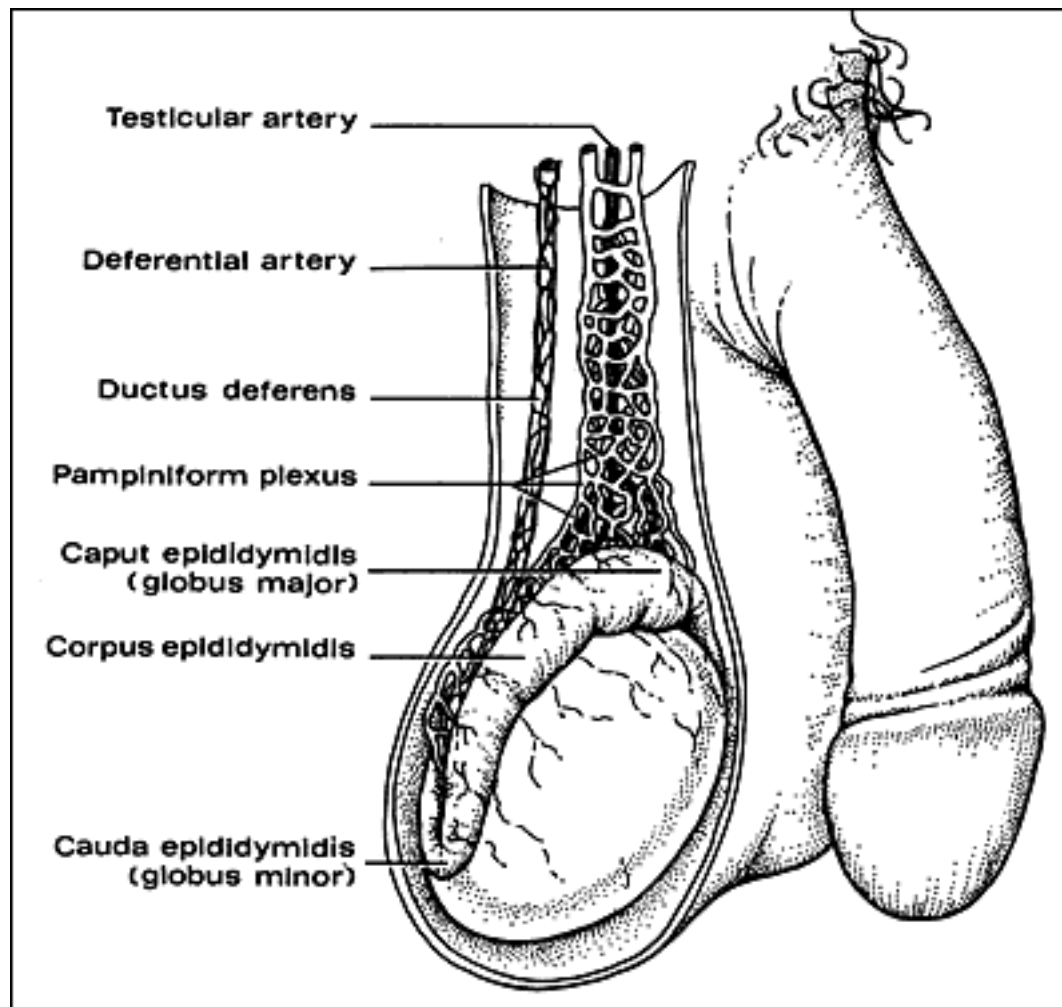
SPERMATIC
PLEXUS

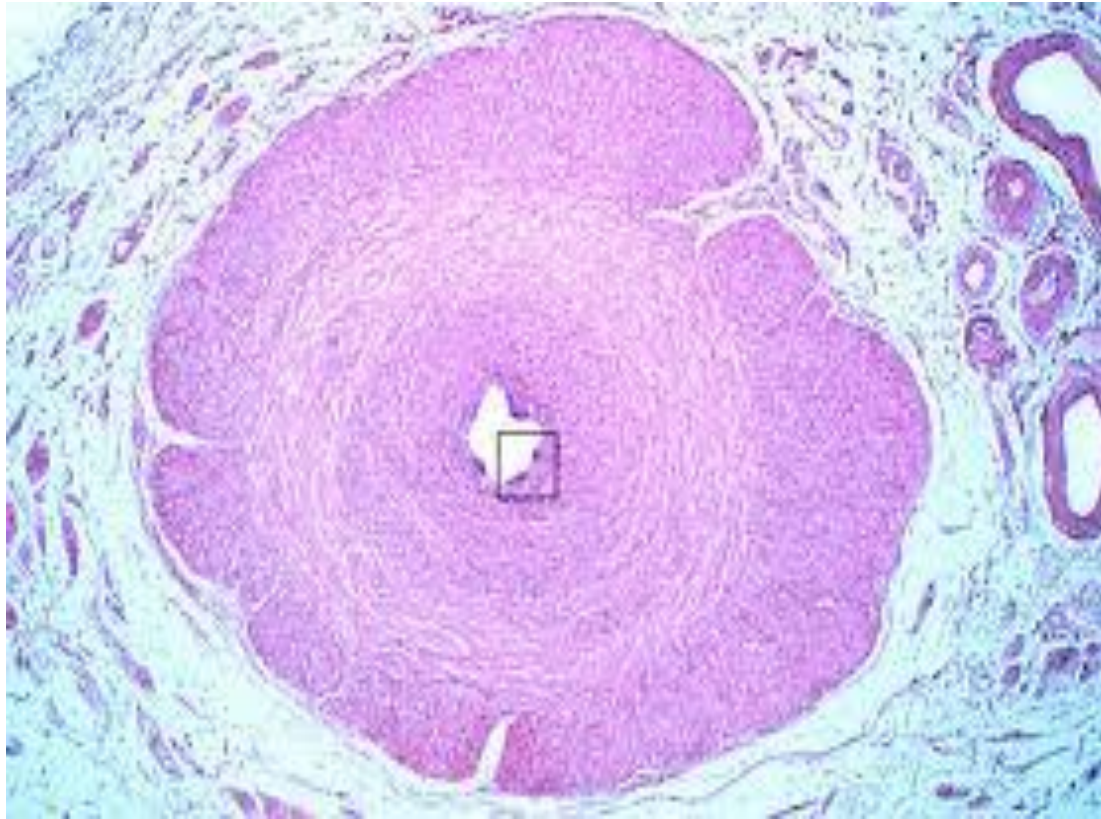
EPIDIDYMIS
PARIETAL
LAYER OF
TUNICA
VAGINALIS

TESTICLE









Histology vas deferens

Lumen, stereocilia, columnar epithelium, middle circular and inner and outer longitudinal muscle

Procedure

- Consent

I, consent to the operation of bilateral vasectomy.

The risks and complications of the procedure have been explained to me and I understand that I am welcome to ask for more information if I wish.

I understand that I need to continue with alternative contraception until the sperm samples are deemed clear.

I understand that the failure rate is 1 : 200. This reduces to 1 : 2000 after 3 months of clear sperm samples.

SIGNED: _____

WITNESSED: _____

Dr Bruce Sutherland

DATE:

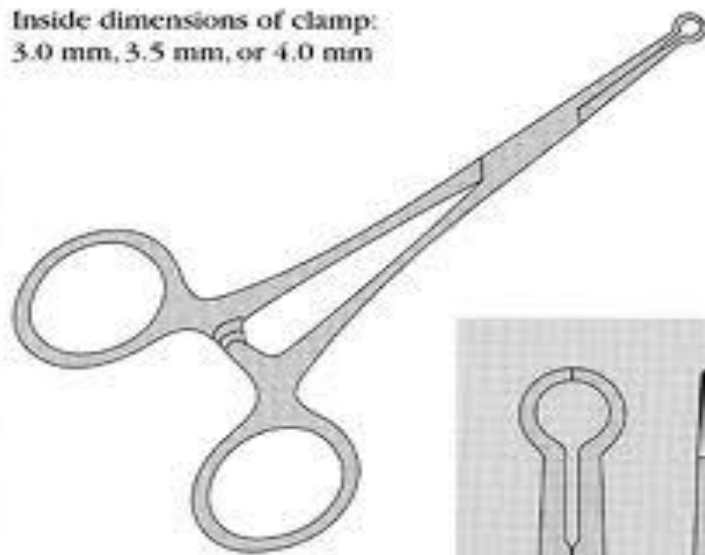
Procedure

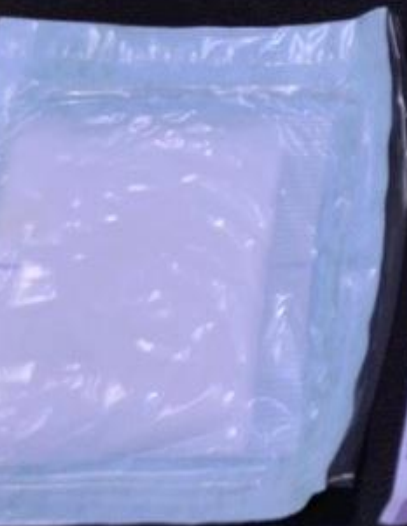
- Consent
- Equipment





Inside dimensions of clamp:
3.0 mm, 3.5 mm, or 4.0 mm





Procedure

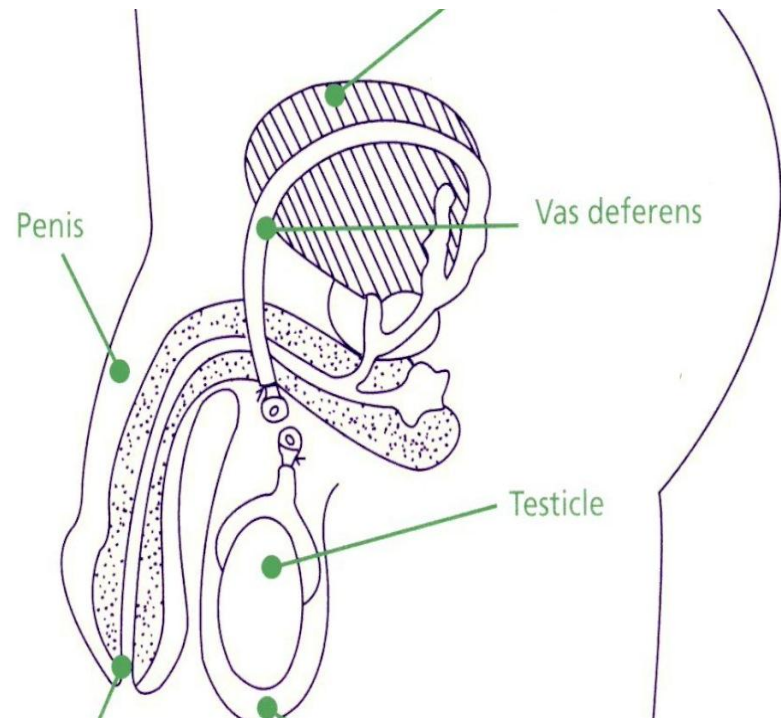
- Consent
- Equipment
- Video
- www.youtube.com/watch?v=xmv_yKjPPT8
- <http://www.ameditech.com/vasectomy/index.php>

Pre Op Consultation

- Age
- Family size and age
- Contraception
- Implications of Sterilization
- Reversibility 60%
- Procedure

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- Complications
 - bruising
 - infection
 - sperm granuloma 1:150
 - ache 2w
 - chronic pain
 - cancer

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- Reversibility 60%
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- Sperm storage/ICSE
- Complications
 - bruising
 - infection
 - sperm granuloma 1:150
 - ache 2w
 - chronic pain
 - cancer
- Previous surgery
- Examination
 - unilateral vas 0.3%

Post Op

- Pressure and ice. Rest
- No sport/sex for 1w
- ?Histology
- Follow up sperm testing
 - x2 at 3m 2w apart
 - 16 -20 ejaculates
 - compliance 75%

Pitfalls

- Patient Selection
- Preoperative pain
 - Phantom orchalgia = T10-L1 radicular pain
- Post vasectomy pain (>6m). 6%
 - nerve entrapment(interposition/haematoma)
 - chronic pain syndromes

Pitfalls

- Testicular artery division
- Failure – In the UK vasectomy is the most litigated surgical procedure.
 - ? Paternity testing
 - temporary appearance of sperm at 12m 1:165
 - pregnancy rate at 12m 1:2900