

# Anatomy

## Lymphatic drainage:

**Lateral aortic:** Kidney, Ureter, Testis

**Common iliac:** Ureter,

**Internal,external iliac:** u.bladder, prostate ,prostatic and membranous parts of urethra

**Sacral:** neck of bladder

**Inguinal:** spongy part of urethra, Scrotum , Penis

**gland of Cloquet in the femoral canal:** glans penis

## Arterial blood supply:

**Ureter:**

1-Abdominal:renal artery, abdominal aorta,gonadal and common iliac arteries.

2-Pelvic part: vesical, middle rectal and uterine arteries

**Scrotum:**

1-Cremastric branch of the **inferior epigastric artery**

2-Superficial and deep **external pudendal** branches of femoral artery

3-Scrotal branches of **internal pudendal artery**.

**Vas:** Artery of the vas is derived from inferior vesical artery.

**Seminal & Prostate :** inferior vesical and middle rectal arteries

**Penis:** Deep (corpus cavernous), Dorsal(Skin), Artery of bulb(corpus spongiosum ) -

All are branches of **internal pudendal artery**-

## Venous blood drainage:

**Vas & seminal:** join the vesical venous plexus.

**Penis:** 1-Superficial dorsal vein —> superficial external pudendal vein.

2-Deep dorsal vein of the penis —> prostatic venous plexus.

## **Nerve:**

**Kidney:** lower splanchnic —> T12 Subcostal (sympathetic,sensory)

**Ureter:** genitofemoral l1-2 (sympathetic, sensory)

**Bladder:** inferior hypogastric (sym,para,sensory)

**Internal urethral sphincter (Autonomic):** inferior hypogastric

**External urethral sphincter (somatic):** perineal branch of the pudendal n.

**Dartos(Sympathetic)& cremaster muscles:** genital of the genitofemoral n.

### **Scrotum:**

Anterior 1/3: Ilioinguinal nerve(L1 dermatome)+ genital branch of genitofemoral N.

Posterior 2/3: Scrotal branches of pudendal nerve and posterior cutaneous nerve of the thigh (S3 dermatome).

### **Testis:**

superior spermatic N. —> Renal& intermesenteric plexus

middle SN. —> superior hypogastric

inferior SN. —> inferior hypogastric

**Vas,Seminal , Prostate:(sympathetic )** prostatic nerve plexus which comes from the inferior hypogastric plexus.

### **Penis:**

1-Dorsal nerve of the penis (sensory) is a branch of pudendal nerve

2-Cavernous nerves (autonomic) arise from the inferior hypogastric plexus (Parasympathetic fibers -erection)

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