

Anatomy summary done by Balsam Altalla

| | Kidney | Ureter | Bladder | Urethra | Scrotum | Testis + epididymis | Vas deferens | Seminal vesicles | Prostate | Penis |
|------------|--|---|---|---|--|--|--|---|--|--|
| Artery | Renal artery gives 5segmental artery →lobar artery (for ech renal pyramid) →inter lobar artery →arcuate artery →interlobular artery →glomerular arterioles | Abdominal part:renal artery,aorta ,gonadal and common iliac artery. Pelvic part:vesical,middle rectal and uterine artery | Male:superior +inferior vesical artery , female :superior vesical +vaginal artery | | Cremastric branch of the inferior epigastric , superficial and deep external pudendal branch of femoral artery ,scrotal branch of internal pudendal artery | Testicular artery branch of abdominal aorta(L2) and anastomoses with cremastric artery and artery of the vas | Artery of the vas derived from inferior vesical artery anastomoses with testicular artery | Middle rectal and inferior vesical artery | Middle rectal +inferior vesical artery | Dorsal artery of penis supplies skin ,facia, glans ,And deep artery of penis supplies corpus cavernous. And artery of the bulb supply corpus spongiosum |
| Vein | Right and left renal vein | | Inferiorly:Male: prostatic venus plexus+deep dorsal vein of penis. Femal: vaginal Venus plexus+ deep dorsal vein of clitoris Posteriorly:the plexus is drained by numerous vesical vein end in internal iliac vein by posterior ligament | | | Drain into the pampiniform plexus and in the inguinal canal it gives testicular vein | Vesical venous plexus | Vesical venous plexus | (Prostatic venous plexus) Superiorly:, it is continuous with the vesical venous plexus. Anteriorly : it receives the deep dorsal vein of penis. Posterolaterally :the plexus is drained to the internal iliac veins which in turn communicates with the internal vertebral venous plexuses by the Batson venous plexus | Superficial dorsal vein and deep dorsal vein |
| Nerve | By renal plexus derived from the coeliac plexus and supplemented by the lowest splanchnic nerve | Sympathetic fiber from T11-L2 | Parasympathetic (splanchnic nerveS1,2,3)+ sympathetic (L1,2) + sensory afferent All derived from inferior hypo gastric plexus | Mainly autonomic | Anterior 1/3:illioinguinal nerve (L1)+genital branch of genitofemoral nerve . Posterior2/3:scrotal branch of pudendal nerve and posterior cutaneous nerve of thigh(s3) | Autonomic :superior spermatic nerve (renal and intermesentric plexus)+middle spermatic nerve(superior hypo gastric plexus) +inferior spermatic nerve(inferior hypo gastric plexus) . Somatic :illiohypogastric+ genitofemoral+illioinguinal nerves | Derived from prostatic nerve plexus which comes from inferior hypogastric plexus (mainly sympathetic) | From prostatic nerve plexus(mainly sympathetic) | Prostatic nerve plexus | Dorsal nerve of the penis branch of pudendal nerve and run lateral to the dorsal artery to the penis . And cavernous nerves(autonomic) from inferior hypogastric plexus (parasympathetic) |
| Lymph node | To lateral aortic lymph node | To lateral aortic +common iliac | To external and internal iliac lymph node + for bladder neck :sacral lymph node | Prostatic +membranous :internal and external iliac . Spongy part :deep + superficial inguinal | Superficial inguinal lymph node | To lateral aorta lymph node | | | External and internal iliac lymph node | Superficial inguinal lymph node drain directly of gland of cloquet in the femoral canal |