The male reproductive system is sub-peritoneal, all components sits below the abdominal peritoneum Infolding of peritoneal sac between the bladder and the rectum - rectovesicular pouch. Testes: Located in the scrotum. Scrotum bad external to body keep low temperature (25°C) maintained by dartos muscle contracting and relaxing Functions: production of sperms and testosterone Structure: Globules of convoluted semineferous tubules separated and surrounded by tunica alberginea The two layered tunica vaginalis derived from processes vaginalis from peritoneum wraps around the tunica alberginea, except the epididymis part Semineferous tubule transition to straight tubule, joins the rete testis. Rete testis joins the epididymis head, which travels down along the testes, then up medially through the testes, into the vas deferens Vas deferens travel up through the inquinal canal, front and over the pubis bone, dorsalateral of the bladder, over the ureter, then downwards. Semen Vas deferens joined by seminal vesicles, an exocrine gland that provide fructose, proteins and alkaline solution, Vit C, 70% of semen volume Ejaculatory duct joins the urethra in the prostate inferior to the bladder. 25% of semen volume, sugar, zinc, enzymes Benign prostatic hyperplasia: proliferation of epidermis or stromal cells of the prostate, constriction of the urethra. Symptoms: Dysuria(difficult urination), Nocturia(night urination), Urgency to urinate Treatments: α-blockers relaxes the prostate muscle Prostate cancer: Can metastasise to other regions such as the brain, pelvic bones, heart and lungs. Symptoms: Frequent urination Diagnosis: prostate exam, touching palpate the posterior rectum for hardening Bulbourethral gland: provides lubrication and alkaline solution for neutralisation of residual urine Penis Structure: Two dorsal structures: corpora cavernosa, contains deep artery septum between copora separate at the base, at crura attached to the pelvic bone Tunica alberginea around the corpora alberginea One ventral structure: corpus spongiosum: contains the spongy urethra Prepuce = foreskin Dorsally located superficial vein and deep vein, dorsal arteries Enlarged corpus spongiosum at base of the penis - bulbus Glans at the tip of the penis, supplied by deep arteries from corpora cavernosum and dorsal arteries Urethra: from prostate to external Intramural: within the walls of the bladder

<ul> <li>Prostatic: within th</li> </ul>	ne prostate
o Intermediate: at ex	xternal sphincter muscle
○ Spongy urethra: p	part after bulbourethral gland
Internal sphincter at base of bladder, smooth muscle autonomic control, sympathetic ejaculation lead to contraction,	
prevent semen from ent	tering bladder
External sphincter below prostate, skeletal muscle, voluntary control by pudendal nerve	
Ruptures of the urethra	
<ul> <li>Intermediate ureth</li> </ul>	nra rupture: impact on the pelvic bone leak of urine into the peritoneum
○ Spongy urethra ru	upture: impact to the perineum, leak of urine into fascia of perineum, e.g. scrotum
Erection and ejaculation	n
<ul> <li>In flaccid state blo</li> </ul>	ood bypass the corpora cavernosum through arteriovenous anastomosis at base of the penis
<ul> <li>During erection, page penis,</li> </ul>	parasympathetic input from S2-4 control sphincter, closes anastomosis, blood directed into the
<ul> <li>Helices artery rela</li> </ul>	axes, allow blood inflow, increase bloodflow into the body of the penis
<ul><li>Bulbospongiosus</li><li>veins</li></ul>	and ischiocavernosus contract at the base of the penis, reduce bloodflow away from penis in
<ul><li>Emission: movem</li><li>Ejaculation:</li></ul>	ent of sperm through vas deferens, addition of prostate fluid into seminal fluid
<ul> <li>Sympathetic</li> </ul>	c: close internal urethral sphincter
▶ Parasympat	hetic: contraction of urethra
► Somatic: cor	ntraction of bulbospongiosus and ischiocavernosus
o Remission: Openi	ing of atreriovenous anastomosis, bloodflow out of the penis, return to flaccid state
○ The bulbospongio	sus and ischiocavernosus is supplied by internal pudendal arteries, innervated by pudendal
nerves	
Genital swelling occur p	posterior to the genital tubercle, lateral to the urogenital opening and urogenital fold.
<ul> <li>After cloacal mem</li> </ul>	nbran degeneration, fusion of urogenital fold forms the urethra
<ul> <li>Genital swelling be</li> </ul>	ecomes the scrotum