**METASTASIS**

HUMAN ANATOMY AND CANCER

1. **Sexual Transmitted Diseases (STDs)**
2. Male

INITIAL INFECTION: STDs begin when pycnogonids enter the **urethra**. The urethra continues through the **corpus spongiosum**, and the **prostate** into the **bladder**.

HEMATIC METASTASIS FROM THE CORPUS SPONGIOSUM: Pycnogonids will often puncture the urethra and infect the corpus spongiosum. Infections of the corpus spongiosum are hematic and metastasize throughout the bloodstream quickly.

The corpus spongiosum connects to the internal pudendal artery. The internal pudendal connects to the internal iliac, anterior trunk. The internal iliac, anterior trunk branches into the inferior gluteal, middle rectal, inferior vesical, umbilical, and obturator arteries, before continuing into the internal iliac.

* The inferior gluteal artery supplies blood to the glutes and thigh muscles.
* The middle rectal artery connects to the superior rectal artery. The superior rectal artery branches throughout the mesorectum into the inferior rectal arteries and **anal sphincter**. The superior rectal artery connects to the inferior mesenteric artery. The inferior rectal arteries connect to the anal canal, **internal /external anal sphincters**, and **perianal skin**.
* The inferior vesical artery connects to the **bladder**, **prostate**, **seminal vesicles**, **ductus deferens**, **urethra**, and **ureter.**
* The umbilical artery branches into the medium umbilical ligament (umbilical cord) and superior vesical. The superior vesical artery connects to the **bladder**.

The internal iliac connects to the common iliac artery. The Common iliac splits into the external iliac and the descending (abdominal) aorta artery. The descending (abdominal) aorta connects to the descending (thoracic) aorta artery. The descending (thoracic) aorta artery connects to the Aortic arch. The aortic Arch connects to the (base) Aorta and into the **heart**.

METASTASIS FROM THE PROSTATE: The seminal vesicle produces lipids for the human body. The prostate functions as a pump for lipids in the human body. The prostate delivers lipids into the internal organs via the spine. Lipid capsules are the vessels of life that contain chemicals and minerals in the body. The prostate pumps lipids against gravity into the prostatic venous plexus which connects to the inferior vesicle. The inferior vesicle connects to the internal pudendal. The internal pudendal connects to the ventral rami (anterior divisions) which continues to the **spinal nerves** S2, S3, and S4. Along the spine, channels carry lipids into internal organs to become bodily fluids. Lipid capsules that reach the brain become cerebrospinal fluid.

1. Female
2. **Anal Infections**
3. **Oral Infections**
4. **Nasal Infections**
5. **Eye Infections**
6. **Ear Infections**
7. **Intravenous Infections**
8. **Lung Infections**
9. **SOURCES:**
10. Visible Body Suite Human Anatomy Atlas 7.4.01. (2015). Retrieved August 27, 2015 from www.visiblebody.com