

Pathology 3 "veins and lymphatics" – summary :)

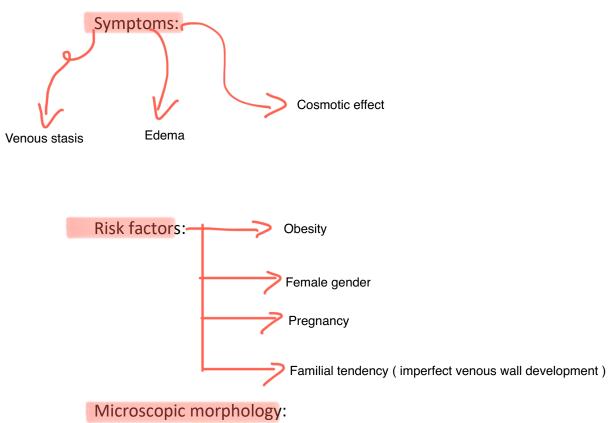
we will start with the pathology of veins :

1- Varicose veins :

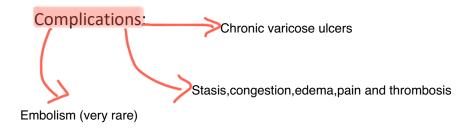
Definition -> abnormally dilated, tortuous veins produced by prolonged 1 increase in intra-luminal pressure and loss of vessel wall support.2

Most commonly seen in -> superficial veins of the leg

10% to 20% of adult males and 30% of adult females develop lower extremity varicose veins



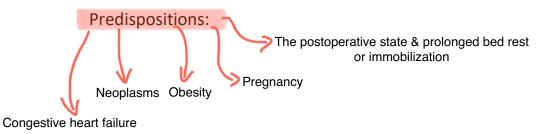
- 1- Vein wall thinning
- 2- intimal fibrosis in adjacent segments
- 3- spotty medical calcification (phlebosclerosis)
- 4- Focal intraluminal thrombosis
- 5- venous valve deformities(rolling and shortening)



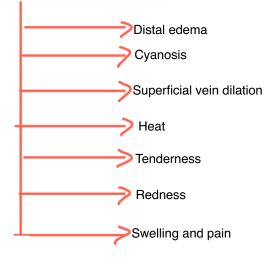
2- THROMBOPHLEBITIS & PHLEBOTHROMBOSIS Definition : Inflammation + thrombosis of veins

Most commonly seen in deep leg veins

**Thrombophlebitis of upper limb veins are usually associated with local risk factors like: catheter or canula site; or in some cases can be associated with esystemic hypercoagulabilities.



Local manifestations :



Special thrombophlebitis types:

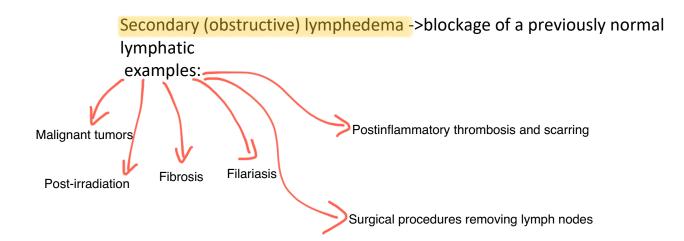
Migratory thrombophlebitis (Trousseau sign)	hypercoagulability occurs as a paraneoplastic syndrome related to tumor elaboration of pro- coagulant factors (e.g. colon cancer; pancreatic ca; etc)
T <mark>HE SUPERIOR VENA CAV</mark> AL S <mark>YNDROME</mark>	*caused by neoplasms that compress or invade the superior vena cava *Most common is lung cancer *marked dilation of veins of head, neck, and arms with cyanosis
INFERIOR VENA CAVAL SYNDROME	*caused by neoplasms compressing or invading inferior vena cava (m/c: hepatocellular carcinoma and renal cell carcinoma)striking tendency to grow within veins *marked lower extremity edema, distention of the superficial collateral veins of the lower abdomen (medusa)

Now let's start with the pathology of lymphatics :

1- Lymphedema

Primary (congenital) lymphedema

can occur as: _____ Lymphatic agenesis or hypoplasia



2- LYMPHANGITIS

Definition: acute inflammation due to bacterial infections spreading into lymphatics

Most common : group A β-hemolytic streptococci.

Clinical features:

1- lymphatics are dilated and filled with an exudate of neutrophils and monocytes.

2- red, painful subcutaneous streaks (inflamed lymphatics), with painful enlargement of the draining lymph nodes (acute lymphadenitis).

3- Sometimes, subsequent passage into the venous circulation can result in bacteremia or sepsis.

3-CHYLOUS :

Definition: Milky accumulations of lymph in various body cavities Caused by -> rupture of dilated lymphatics, typically obstructed secondary to an infiltrating tumor mass

Types 🚄 Chylopericardium (pericarduim)

Chylous ascites (abdomen)

Chylothorax (chest)

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