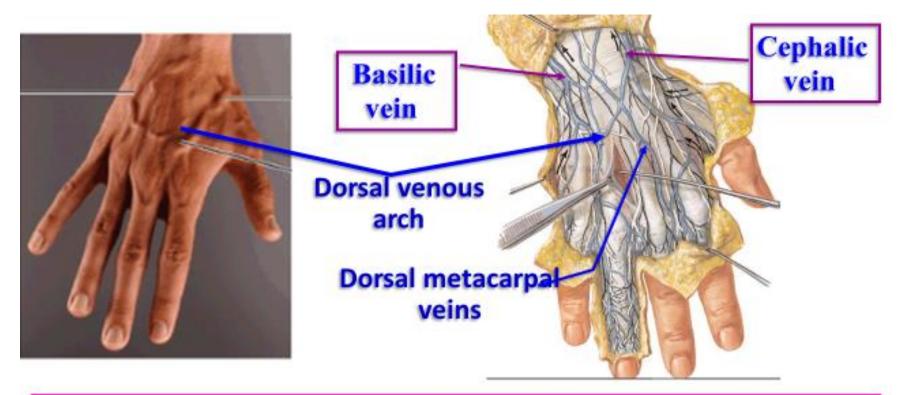
VEINS OF UPPER & LOWER LIMB

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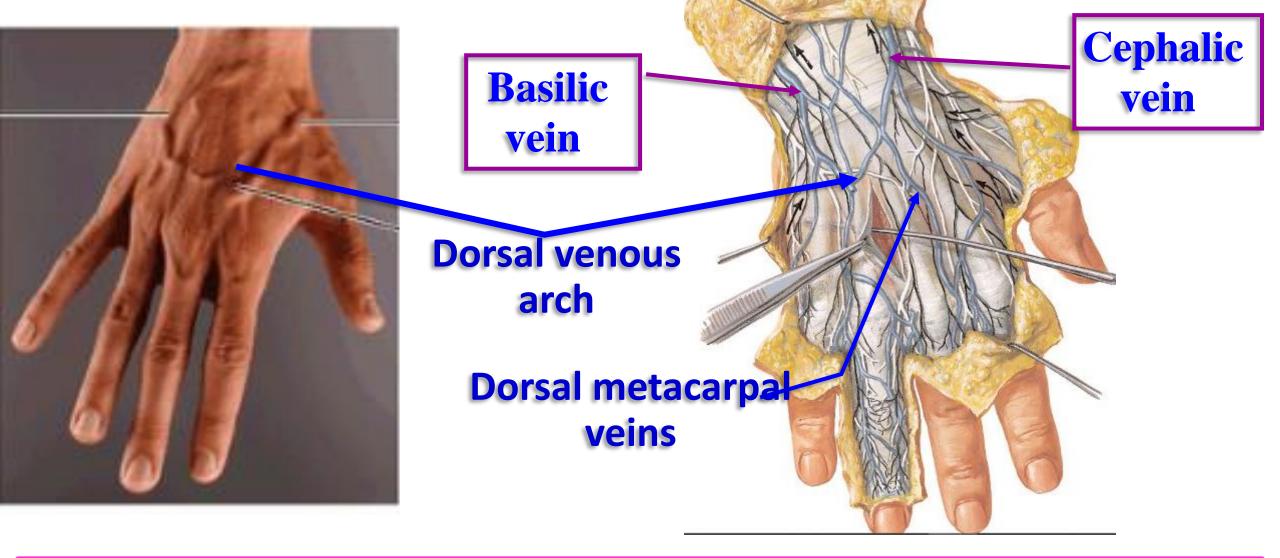
VEINS OF UPPER LIMB SUPERFICIAL VEINS



Dorsal Venous arch

- This is a venous plexus in the superficial fascia of the dorsum of the hand.

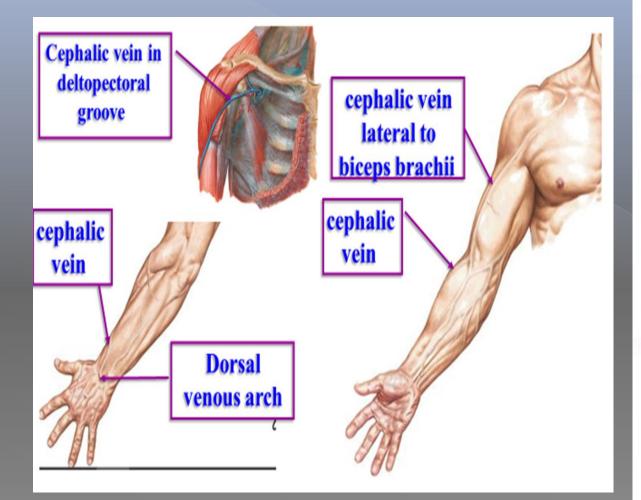
 It receives three dorsal metacarpal veins which are formed by the union of dorsal digital veins from adjacent sides of the fingers.



• Dorsal Venous arch

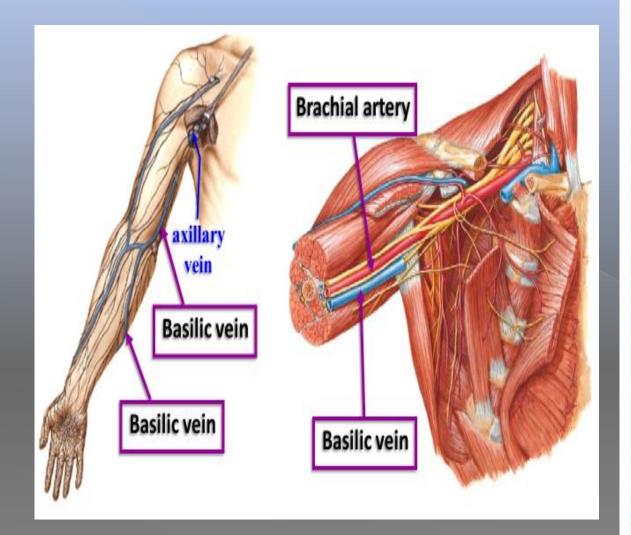
- This is a venous plexus in the superficial fascia of the dorsum of the hand.

- It receives three dorsal metacarpal veins which are formed by the union of dorsal digital veins from adjacent sides of the fingers.



Cephalic Vein

- ** Origin; union of the lateral end of the dorsal venous arch with the dorsal digital veins of the radial side of the thumb.
 ** Course; It is formed over the anatomical snuff-box.
 It curves around the lateral side of the forearm to ascend on the lateral part of the front of the forearm up to the front of the elbow,.
 It ascends close to the lateral side of the biceps brachii muscle.
 It pierces the deep fascia and ascends in the deltopectoral groove.
- ** Termination; It ends in the upper part of the axillary vein.

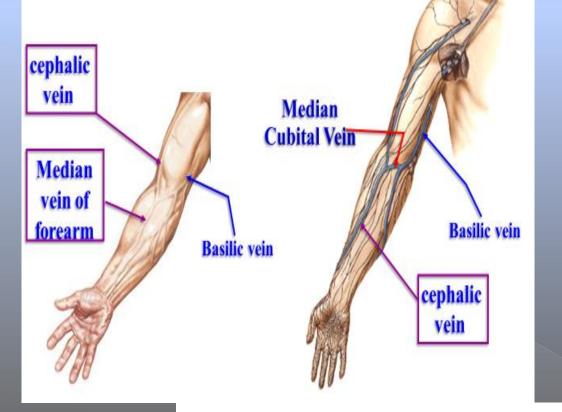


Basilic Vein

** Origin; by the union of the medial end of the dorsal venous arch with the dorsal digital vein of the ulnar side of the little finger.

** Course; It ascends along the medial side of the back of the forearm; and near the elbow it inclines forwards to reach the front of the elbow.

 At the insertion of coracobrachialis muscle, it pierces the deep fascia and ascends close to the medial side of the brachial artery.
 ** Termination; it continues up into the axilla as the axillary vein at the lower border of teres major muscle.



Median Vein of the Forearm

- This vein is commonly present on the front of the forearm.

- It arises from a superficial venous plexus in the palm and ascends to the front of the forearm.

- At the front of the elbow it joins the median cubital vein or basilic vein.

- But, commonly it divides into a lateral branch joins the cephalic vein and a medial branch joins the basilic vein (NO Median cubital vein).

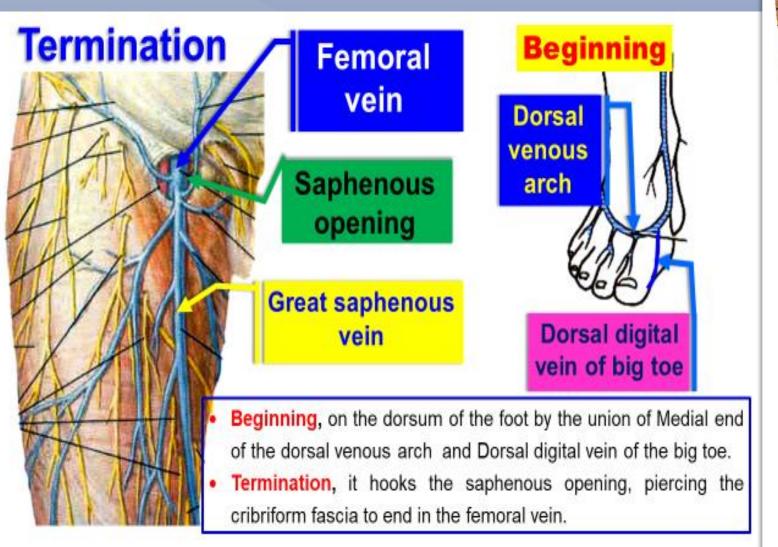
Median Cubital Vein - This is a short oblique vein which

lies across the front of the elbow. - It arises from the cephalic vein, it runs upwards and medially to join the basilic vein.

- The bicipital aponeurosis

separates the vein (superficial) from the end of the brachial artery and median nerve (deep).

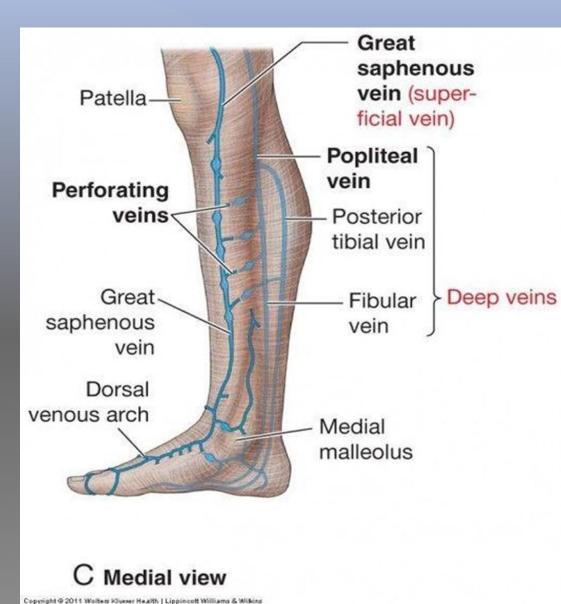
VEINS OF LOWER LIMB A-Superficial veins





saphenous nerve accompanied Along its it course on the dorsum of foot, infront of the medial malleolus and medial side of the leg,

Tributaries of great saphenous vein

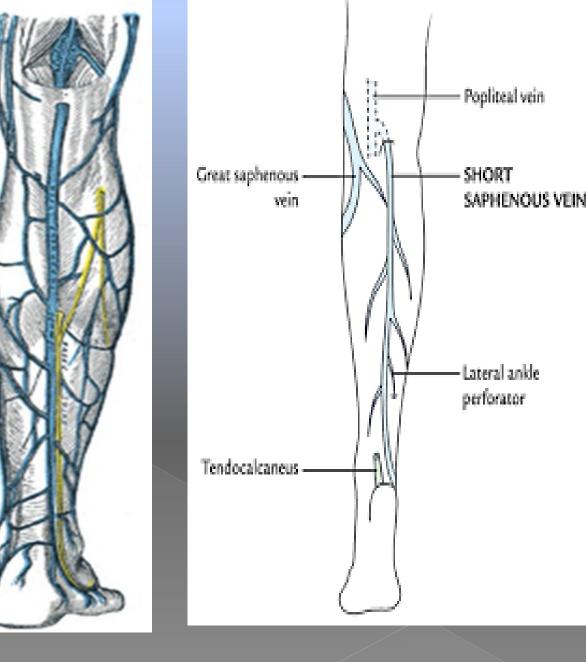


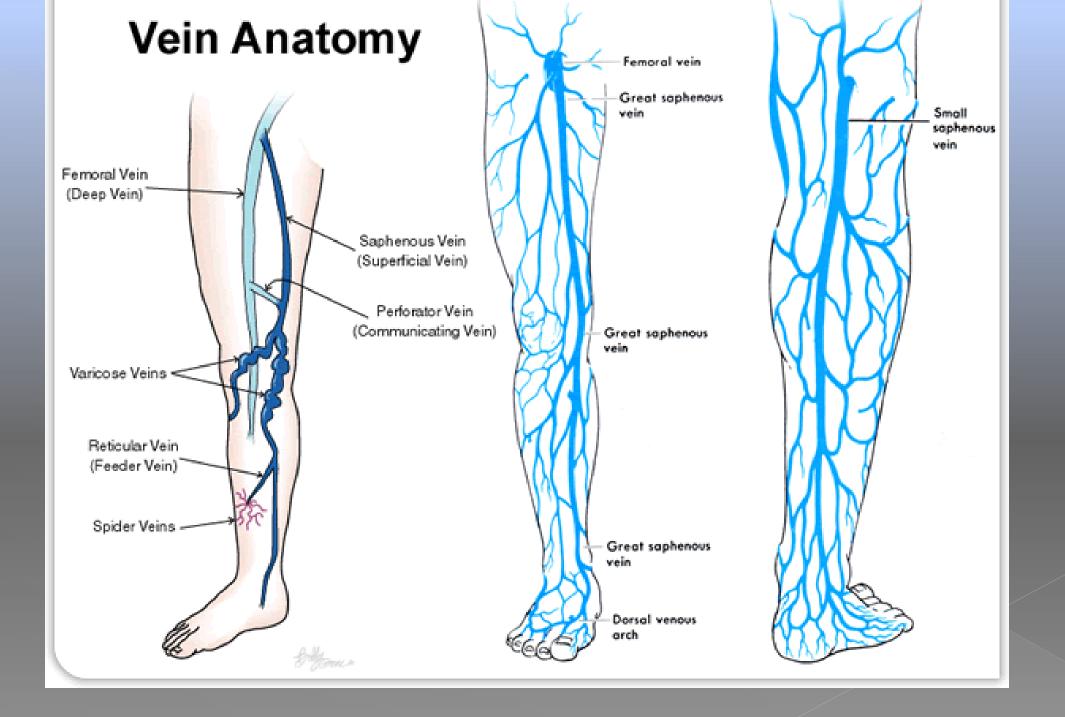
perforating veins connect the great saphenous vein with deep veins -also it receives: 1- superficial circumflex iliac vein. 2- superficial epigastric vein. 3- superficial external pudendal vein.

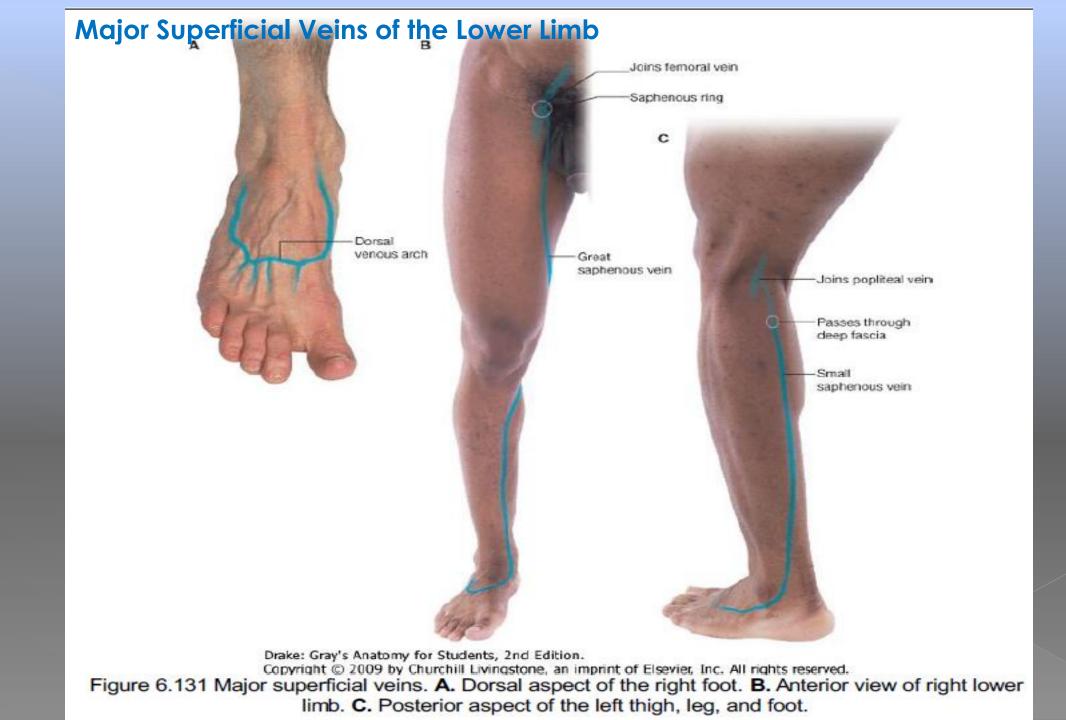
Small Saphenous Vein

** Origin: on the dorsum of the foot by the union of the lateral end of the dorsal venous arch with the lateral dorsal digital vein of the little toe.
** Course and relations:

- It passes backwards along the lateral border of the dorsum of the foot.
- Then, it curves up passing **behind the lateral malleolus** and ascends on the back of the leg.
- About the middle of the popliteal fossa, it pierces the popliteal fascia to end in the popliteal vein.
- Along its course it is closely accompanied by the sural nerve.

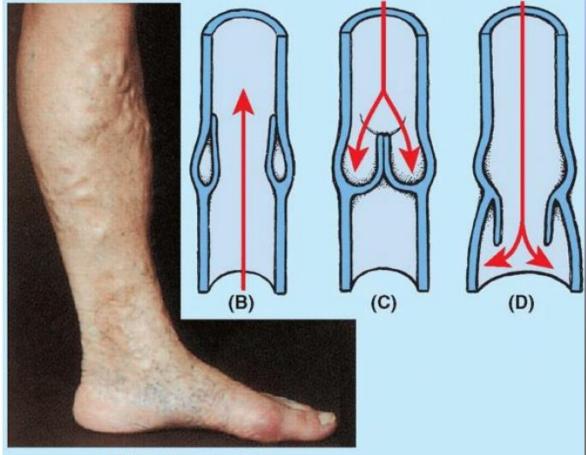




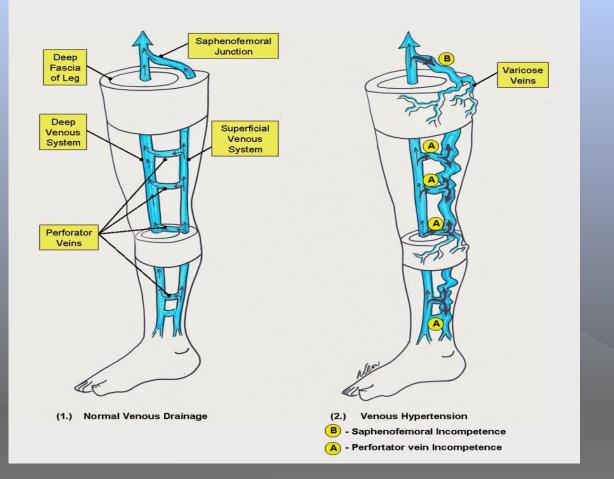


Varicose veins

- Frequently, the great saphenous vein and its tributaries become varicose (dilated so that the cusps of their valves do not close).
- Varicose veins are common in the posteromedial parts of the lower limb and may cause discomfort.
- In a healthy vein, the valves allow blood to flow toward the heart (B) while keeping blood from flowing away from the heart (C).
- Valves in varicose veins (D) are incompetent due to dilation or rotation and no longer function properly. As a result, blood flows inferiorly in the veins, producing varicose veins.



(A) Varicose veins

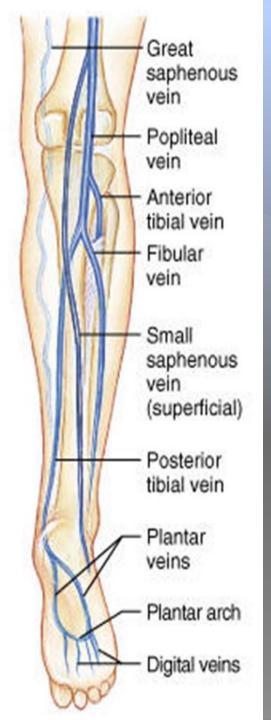


The normal venous return of great saphenous vein to A- Deep vein through perforating veins B- The femoral vein Great saphenous vein contains many valves along its course, the most important valve at its termination • The valves allow passage the blood from greater Of saphenous vein to the deep vein and femoral vein.

 Contraction of muscles leads to pump blood upward and pump blood from superficial veins to deep vein (muscular pump)

Deep veins

- The plantar digital veins *arise* from plexuses on the plantar surfaces of the digits, unite to form four metatarsal veins; these run backward in the metatarsal spaces, communicate, by means of perforating veins, with the veins on the dorsum of the foot, and unite to form the plantar venous arch which lies alongside the plantar arterial arch.
- From the deep plantar venous arch the medial and lateral plantar veins run backward close to the corresponding arteries and, after communicating with the great and small saphenous veins, unite behind the medial malleolus to form the posterior tibial veins.

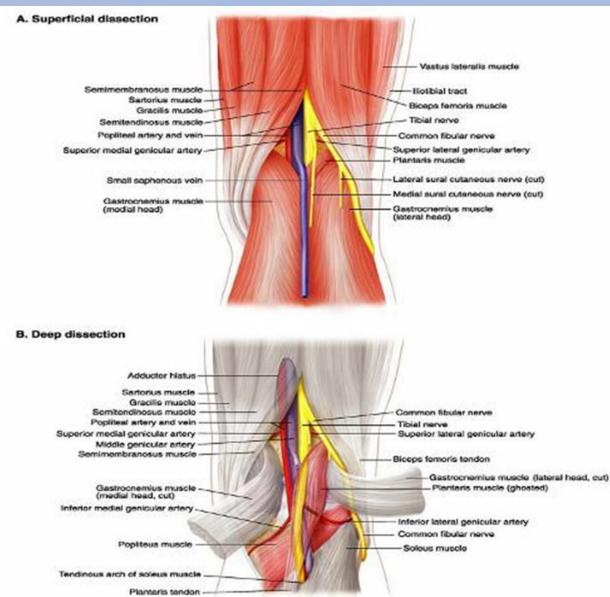


• The posterior tibial

veins accompany the posterior tibial artery, and are joined by the **peroneal veins**.

• The anterior tibial veins are the upward continuation of the venæ comitantes of the dorsalis pedis artery. They leave the front of the leg by passing between the tibia and fibula, over the interosseous membrane, and unite with the posterior tibial, to form the popliteal vein.

Popliteal vein



Beginning:

union of the vena comitantes of the anterior and posterior tibial arteries at the lower border of popliteus Termination: the adductor opening and continues as the femoral vein. Tributaries:

Muscular veins, genicular veins corresponding to the arteries the small saphenous vein.

Femoral vein

Beginning:

continuation of the popliteal vein at the adductor opening.

It terminates as the external iliac vein after passing behind the inguinal ligament medial to the femoral artery.

