

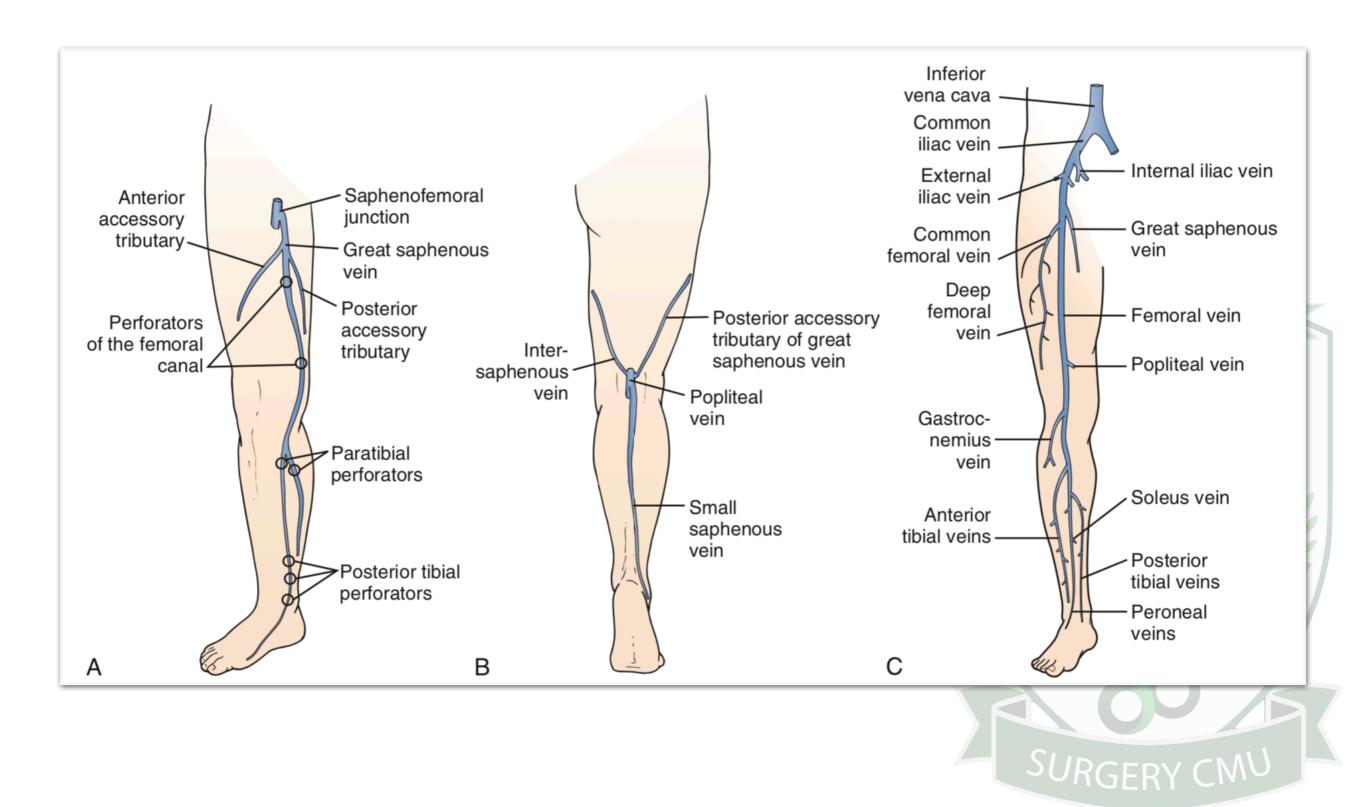
VENOUS ANATOMY AND PHYSIOLOGY

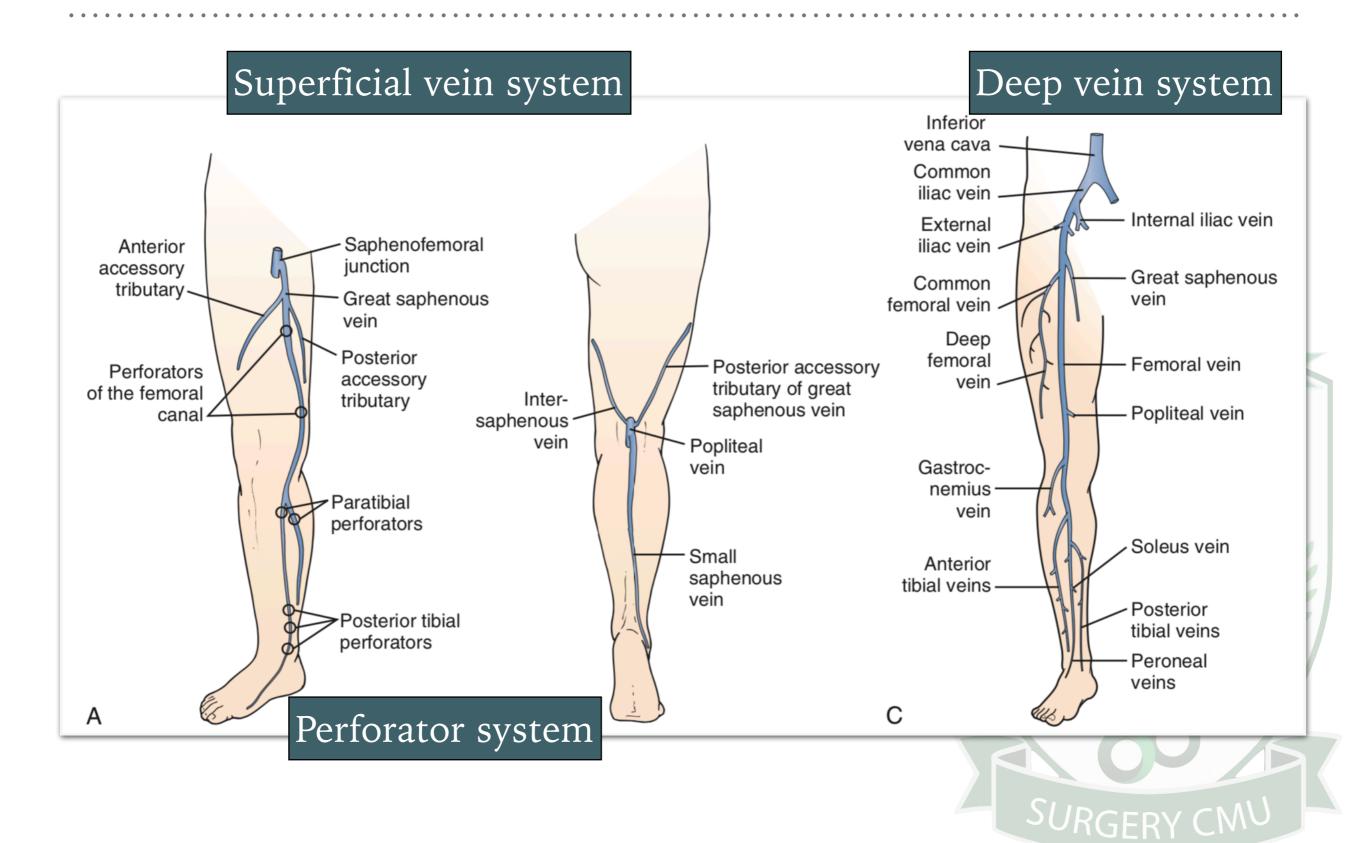




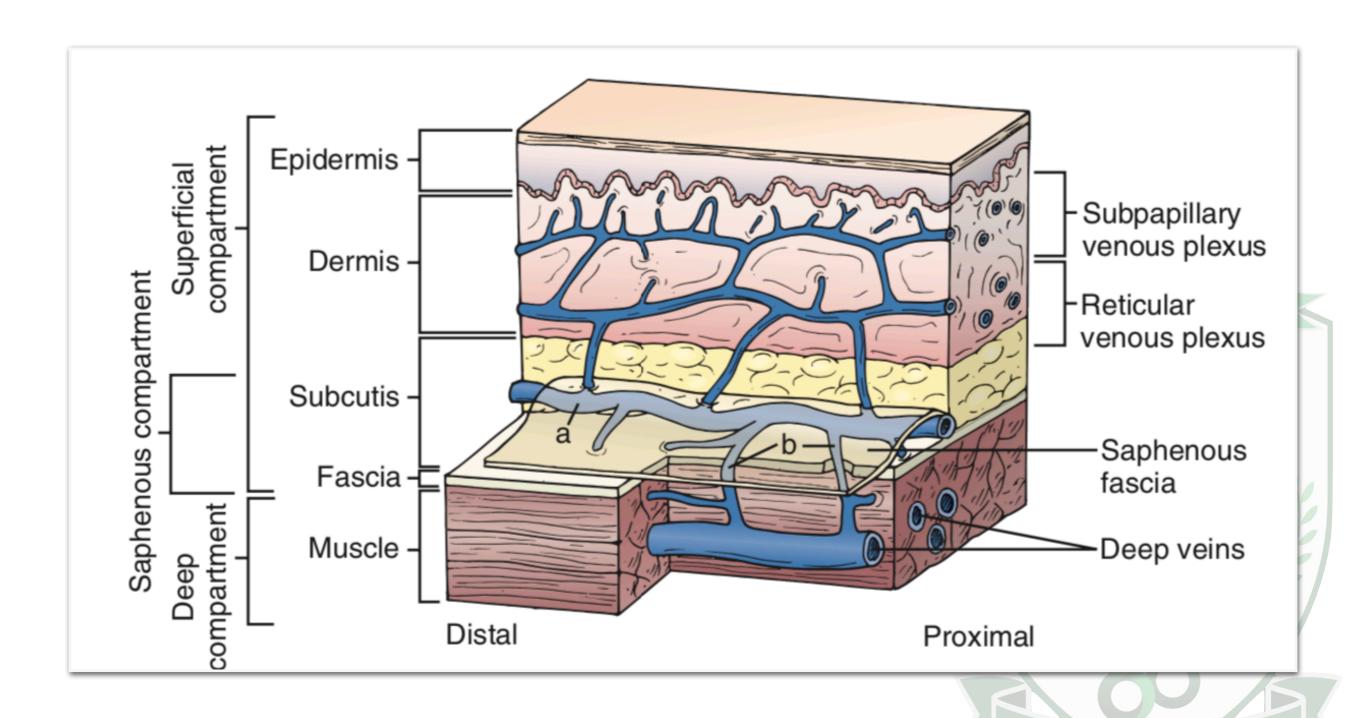
Saranat Orrapin, MD Vascular surgery, Department of Surgery Faculty of Medicine, Chiang Mai University

VENOUS ANATOMY

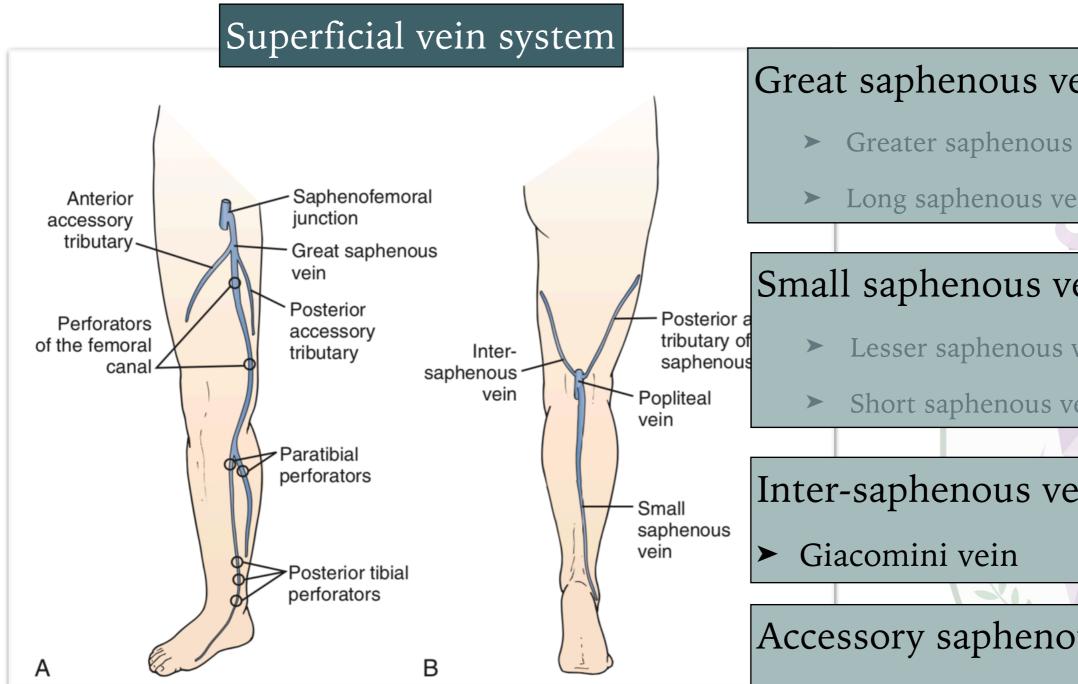




VENOUS ANATOMY



SURGERY CMU



Great saphenous vein (GSV)

- Greater saphenous vein (GSV)
- Long saphenous vein (LSV)

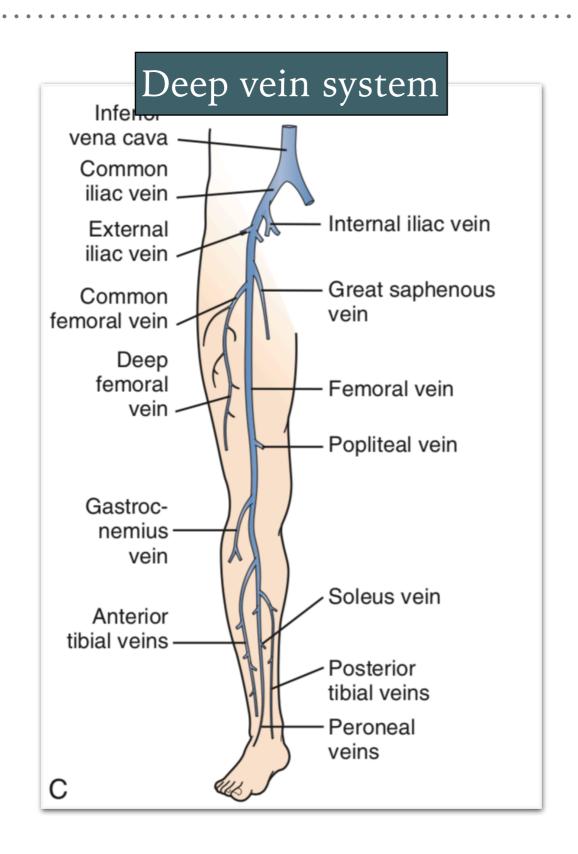
Small saphenous vein (SSV)

- Lesser saphenous vein (LSV)
- Short saphenous vein (SV)

Inter-saphenous vein

Accessory saphenous vein

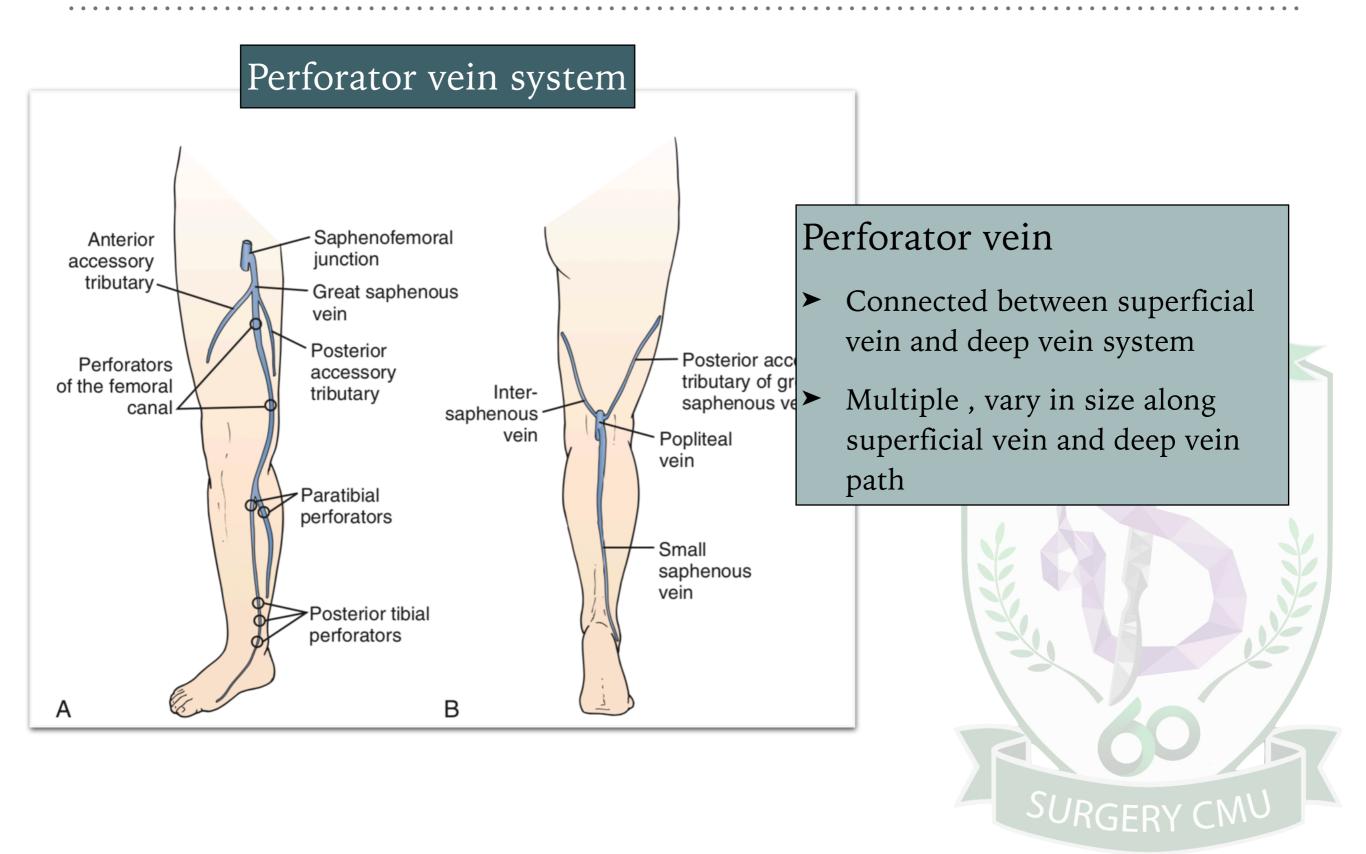
- Anterior (Lateral side)
- Posterior (Medial side)



Deep vein

- ➤ Run in muscular compartment
- ➤ Along with artery



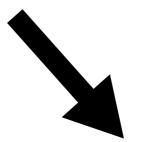


Venous system function

- ➤ Returning blood to heart
- ➤ Reservoir for cardiovascular hemostasis maintenance



Vascular compliance and capacity



Pressure flow effect

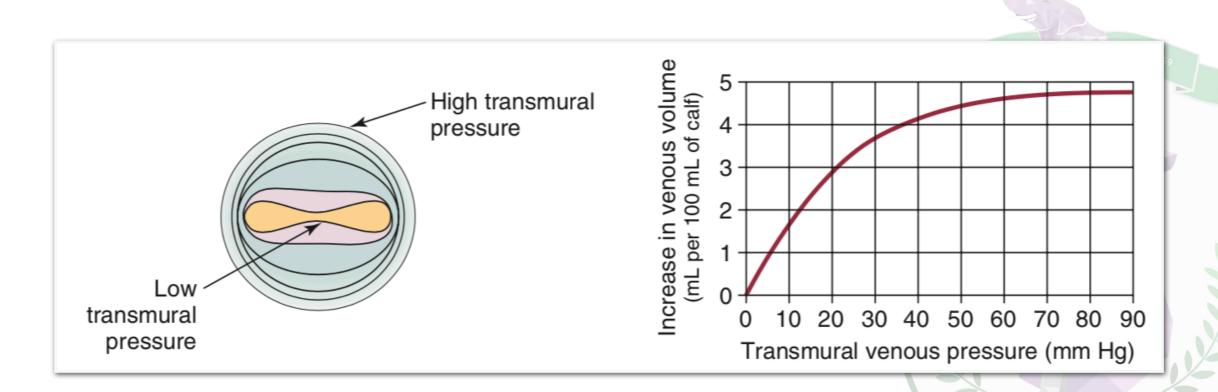
Respiratory effect

Calf pumping function

Venous valve



Vascular compliance and capacity



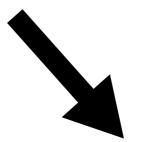


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Vascular compliance and capacity



Pressure flow effect

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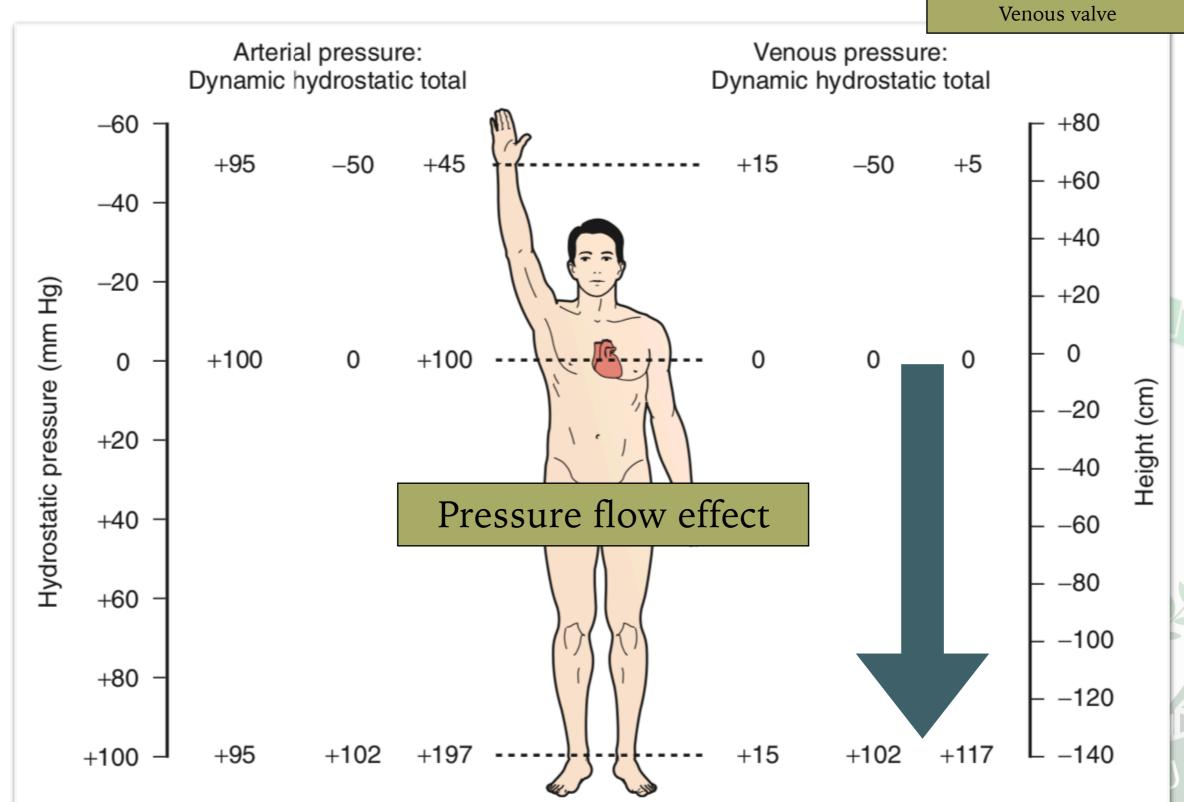
Venous valve



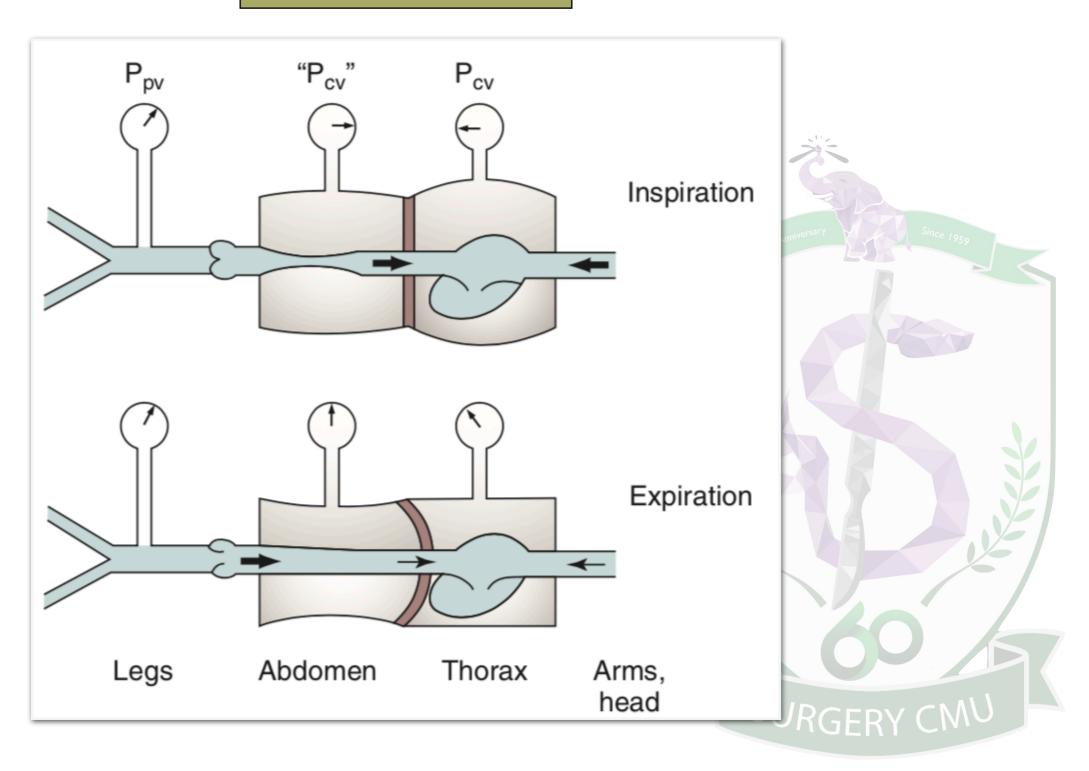
Pressure flow effect

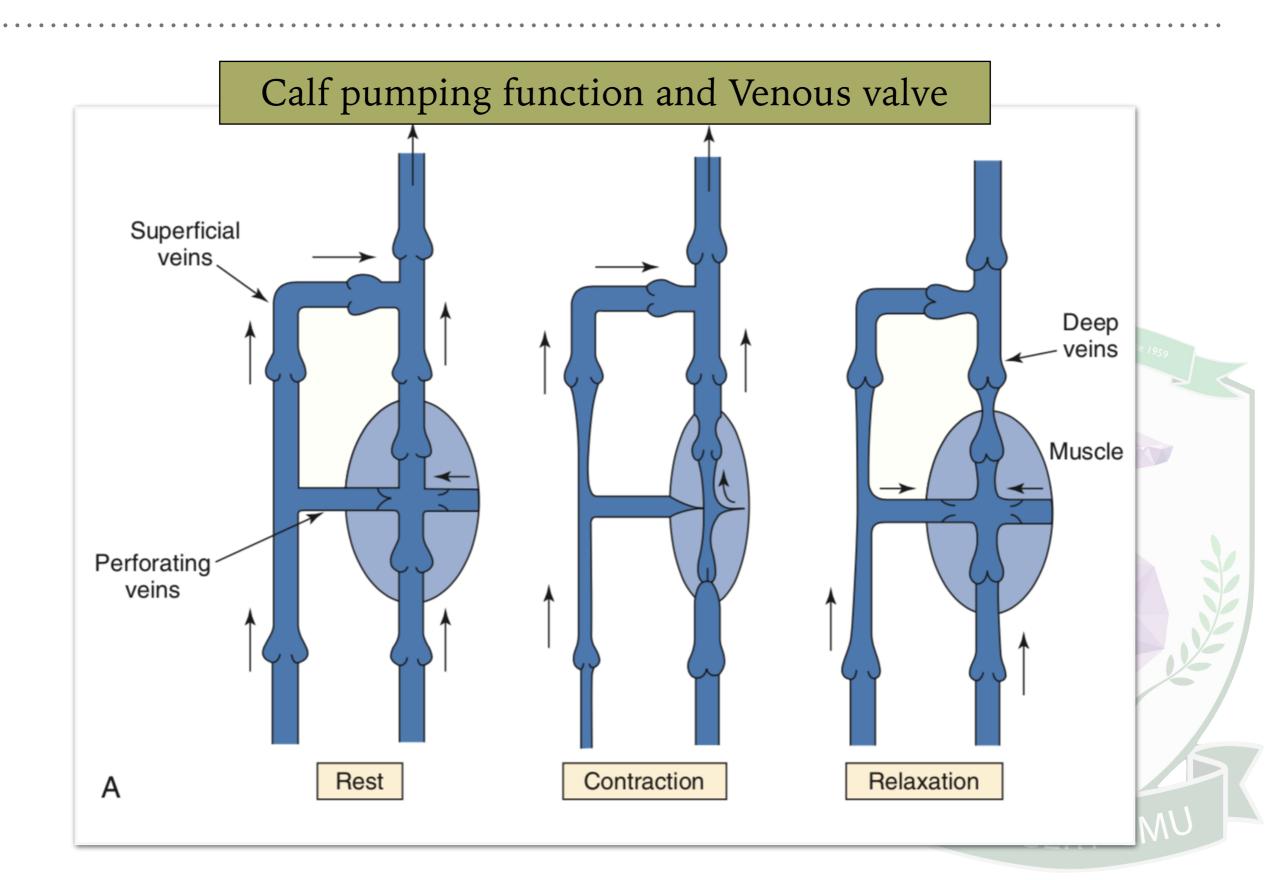
Respiratory effect

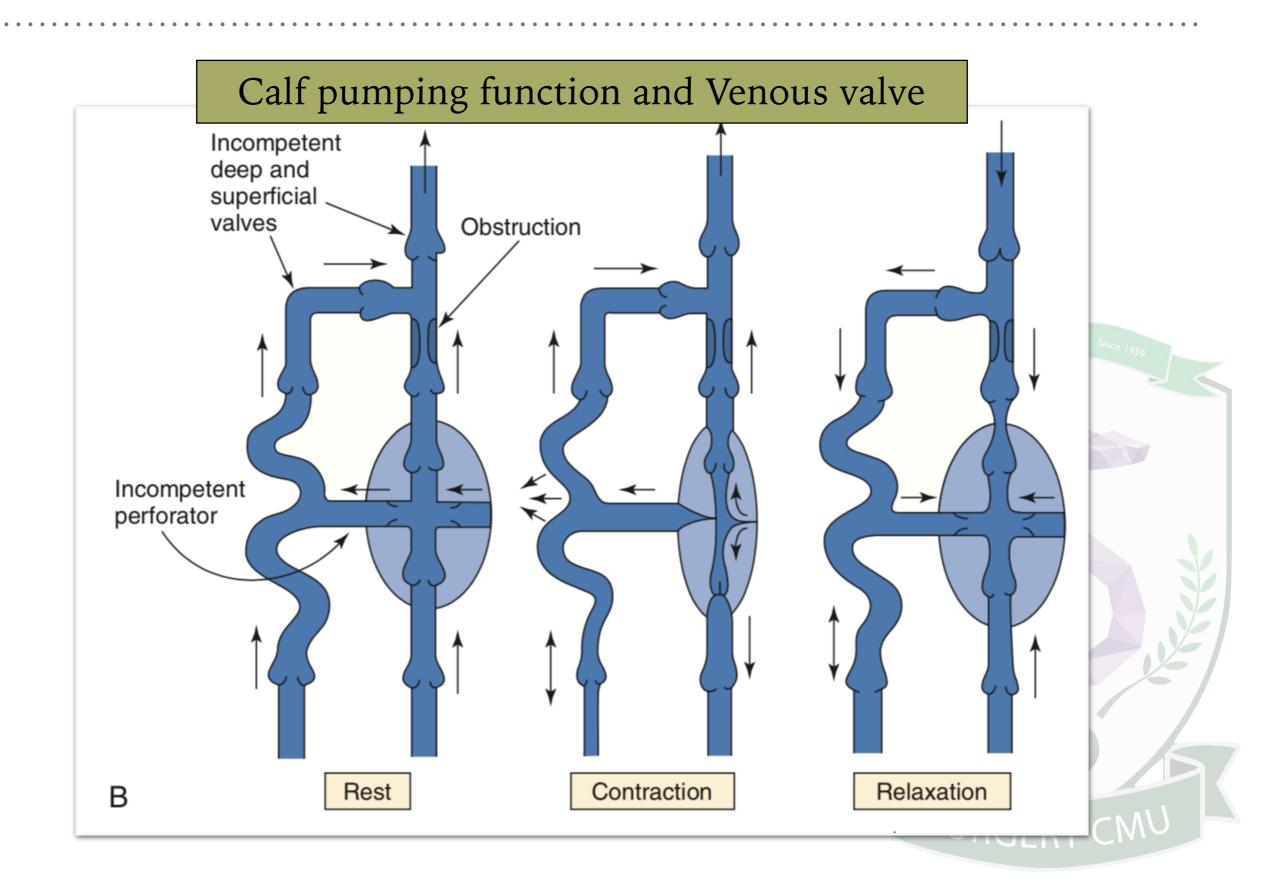
Calf pumping function

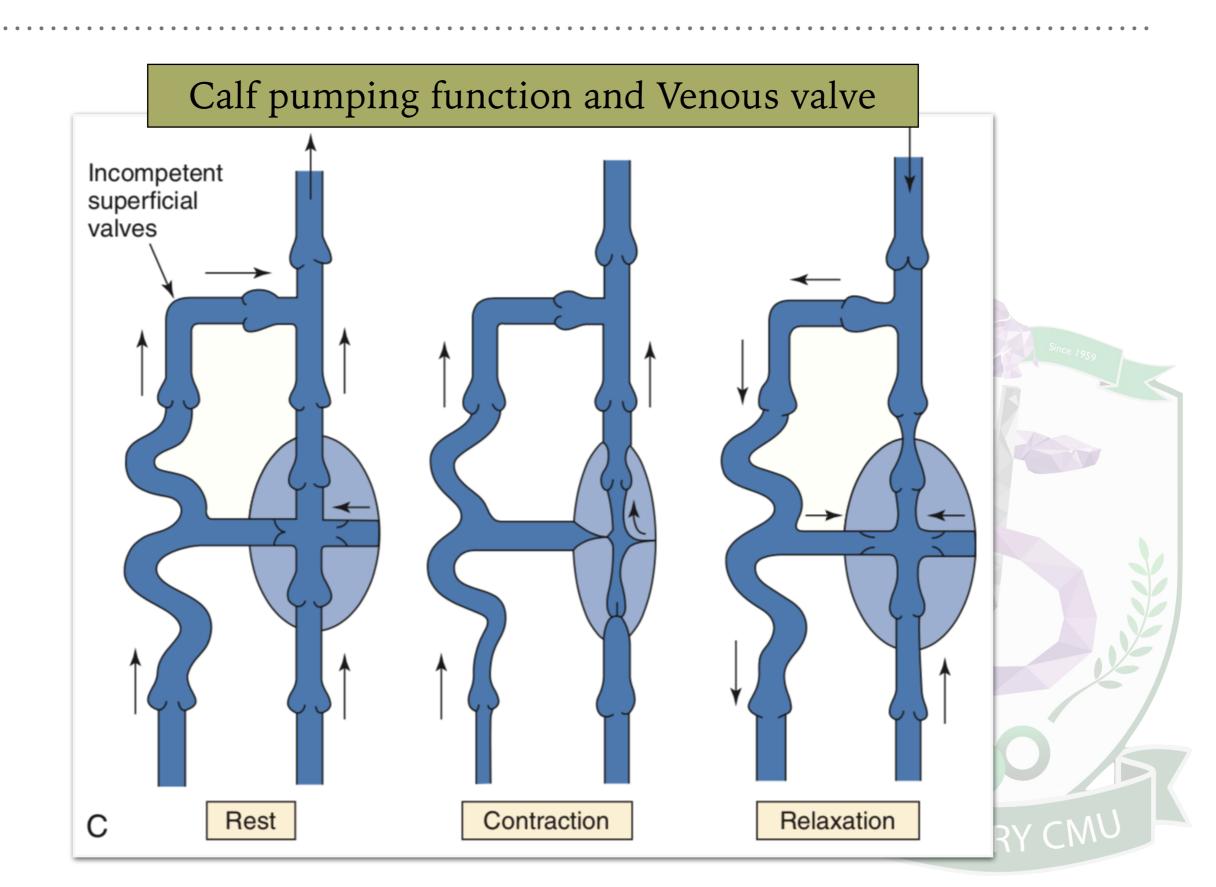


Respiratory effect









VENOUS ANATOMY AND PHYSIOLOGY

Pathophysiology of CVD

- Abnormal of Leg venous anatomy
 - ➤ Absent vein
 - > Small number of venous valve
 - ➤ Occlusion or compression of leg vein
- Abnormal of Leg venous physiology
 - Poor calf pumping function
 - ➤ Venous valve dysfunction
 - ➤ Venous wall compliance



THANK YOU





