

MODULE 5 L02

Capillaries, Sinusoids and Capillary Beds

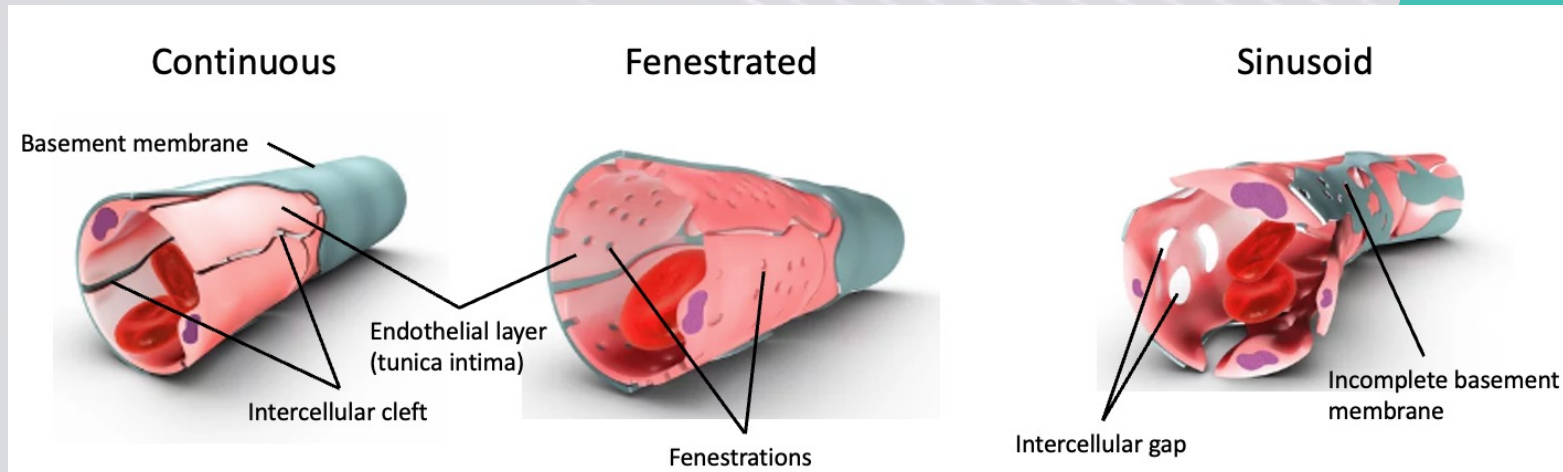
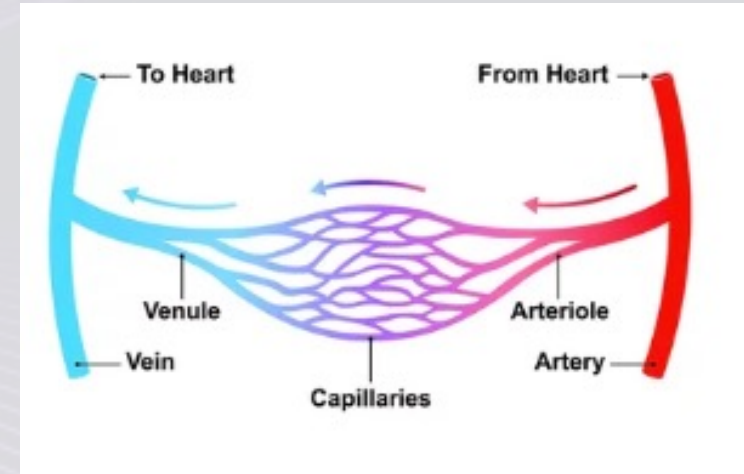
Dr. Lisa Brinn

lbrinn@fiu.edu



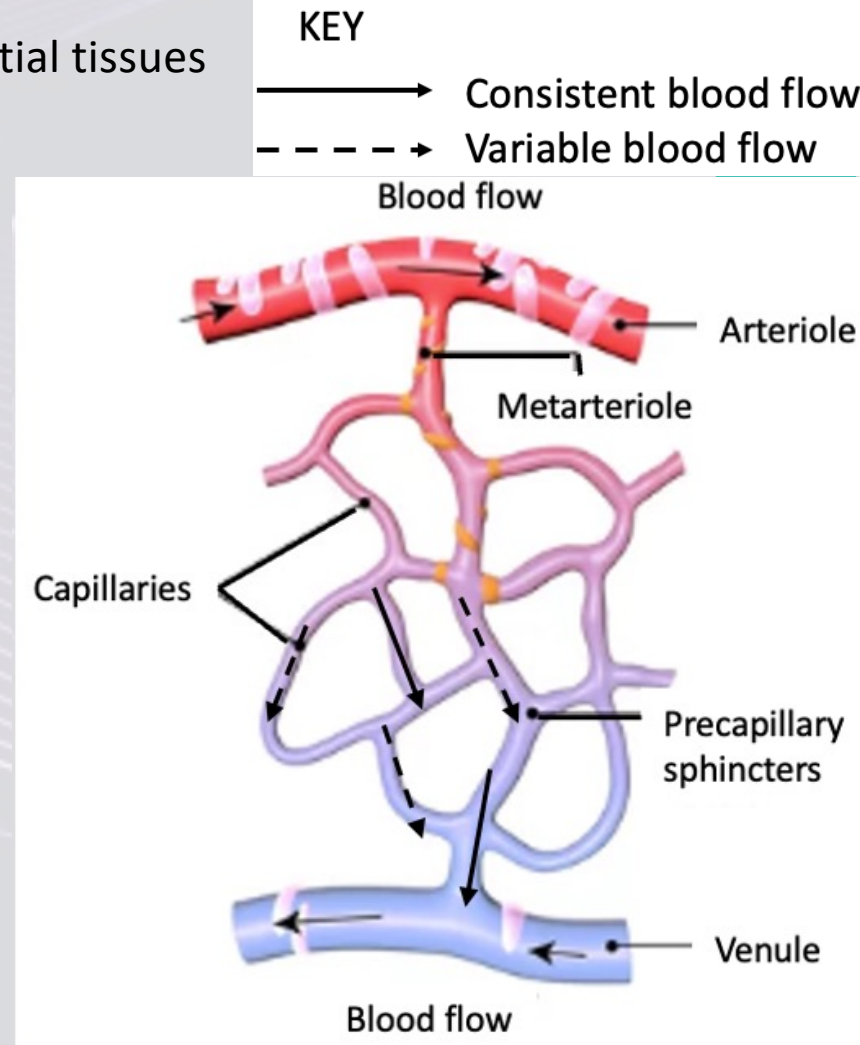
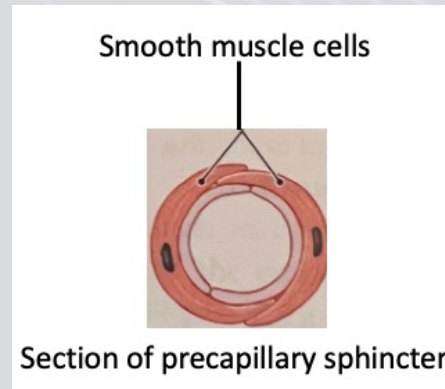
2. Capillaries

- A. Diffusion across the capillary endothelial cells
- B. Diffusion through gaps between adjacent endothelial cells
- C. Diffusion through the pores in fenestrated capillaries and sinusoids
- D. Vesicular transport by endothelial cells

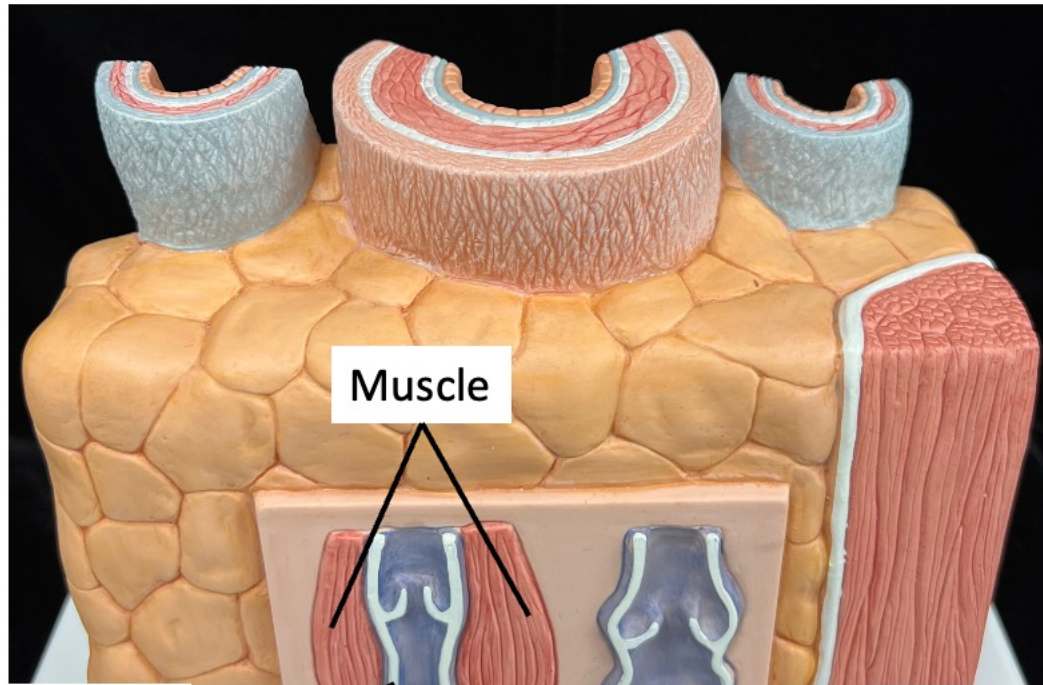


Capillary Bed

- Capillaries – site of nutrient, waste, O_2 , CO_2 exchange with interstitial tissues
- Capillary bed – collection of capillaries
- Blood flow at tissue level in arterioles – autoregulation
- Metarterioles – precapillary sphincters



Venous Valves



Sectional view
of a vein with
physiological
valve function

Sectional view
of a vein with
insufficient
valve function
(varicose vein)

