

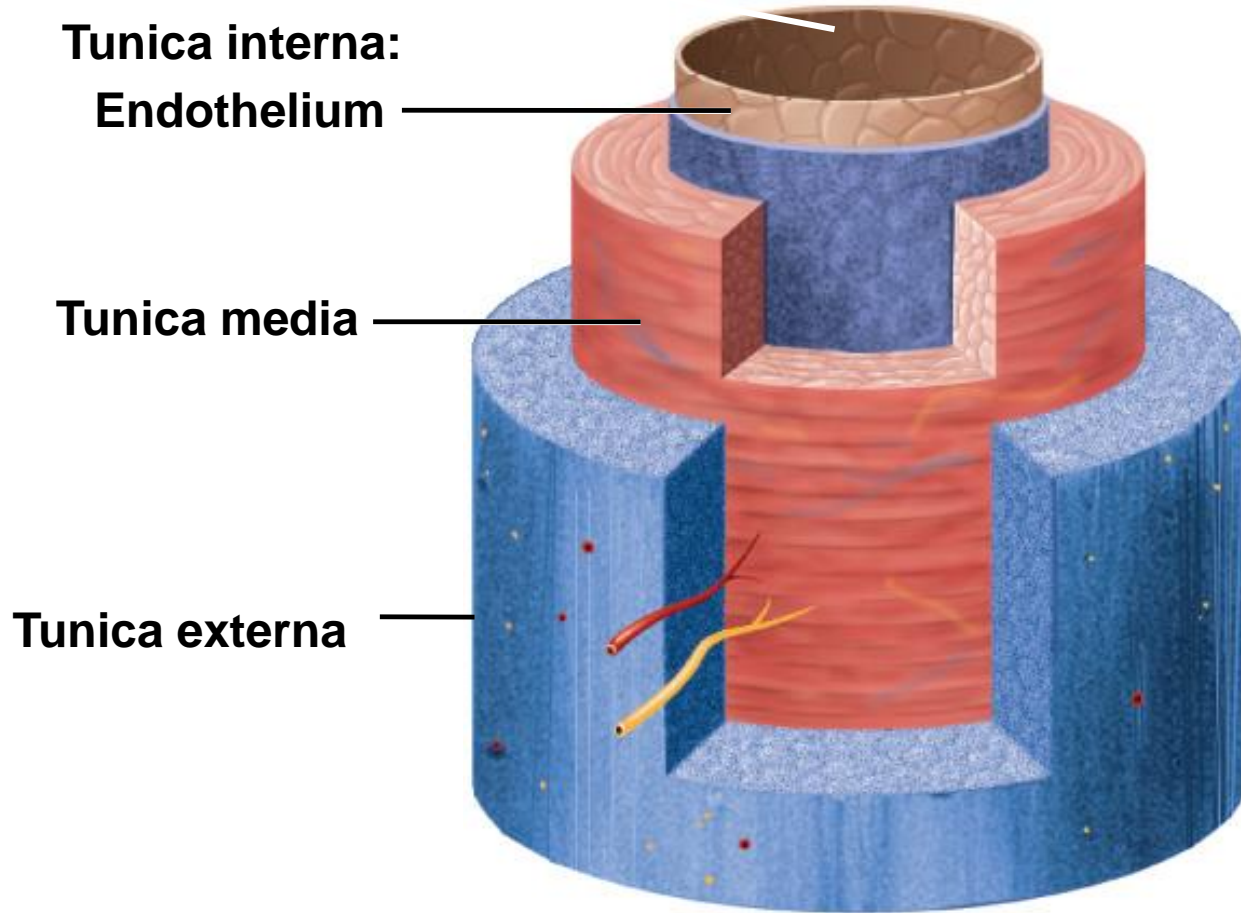
The top portion of the slide features a dark purple background with a repeating pattern of light purple, stylized fan-like or shell-like motifs. Each motif consists of a central circular element with a crosshair, from which several lines radiate outwards to form a larger, fan-like shape. The text 'ST. CATHERINE UNIVERSITY' is printed in a white, serif, all-caps font, centered in the upper right area of this patterned section.

ST. CATHERINE
UNIVERSITY

Blood Vessels

Vessel Wall

- Vessel Wall
 - Tunica interna
 - Tunica media
 - Tunica externa



Blood Vessel Types

- Arteries
- Capillaries
- Veins

Fig. 20.2

ST. CATHERINE UNIVERSITY

Large vein

Lumen

Tunica interna: Endothelium

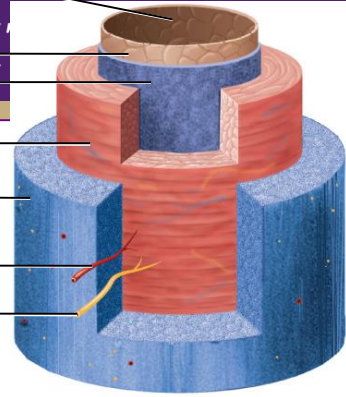
Basement membrane

Tunica media

Tunica externa

Vasa vasorum

Nerve



Medium vein

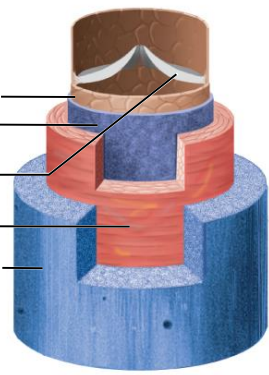
Tunica interna: Endothelium

Basement membrane

Valve

Tunica media

Tunica externa



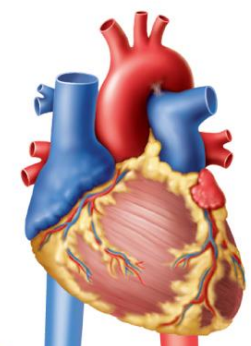
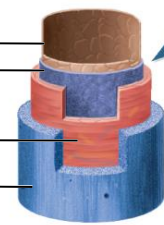
Venule

Tunica interna: Endothelium

Basement membrane

Tunica media

Tunica externa



Inferior vena cava

Aorta

Direction of blood flow

Conducting (large) artery

Lumen

Tunica interna: Endothelium

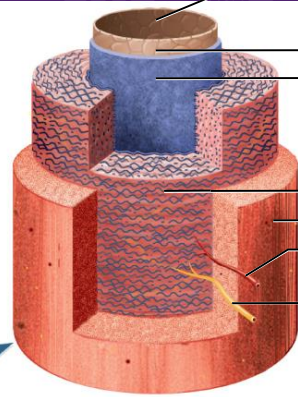
Basement membrane

Tunica media

Tunica externa

Vasa vasorum

Nerve



Distributing (medium) artery

Tunica interna: Endothelium

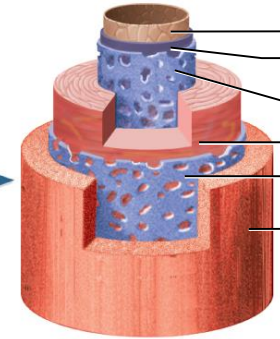
Basement membrane

Internal elastic lamina

Tunica media

External elastic lamina

Tunica externa



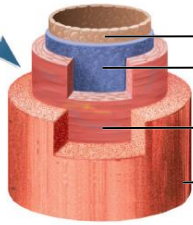
Arteriole

Tunica interna: Endothelium

Basement membrane

Tunica media

Tunica externa



Capillary

Endothelium

Basement membrane

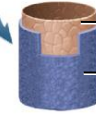
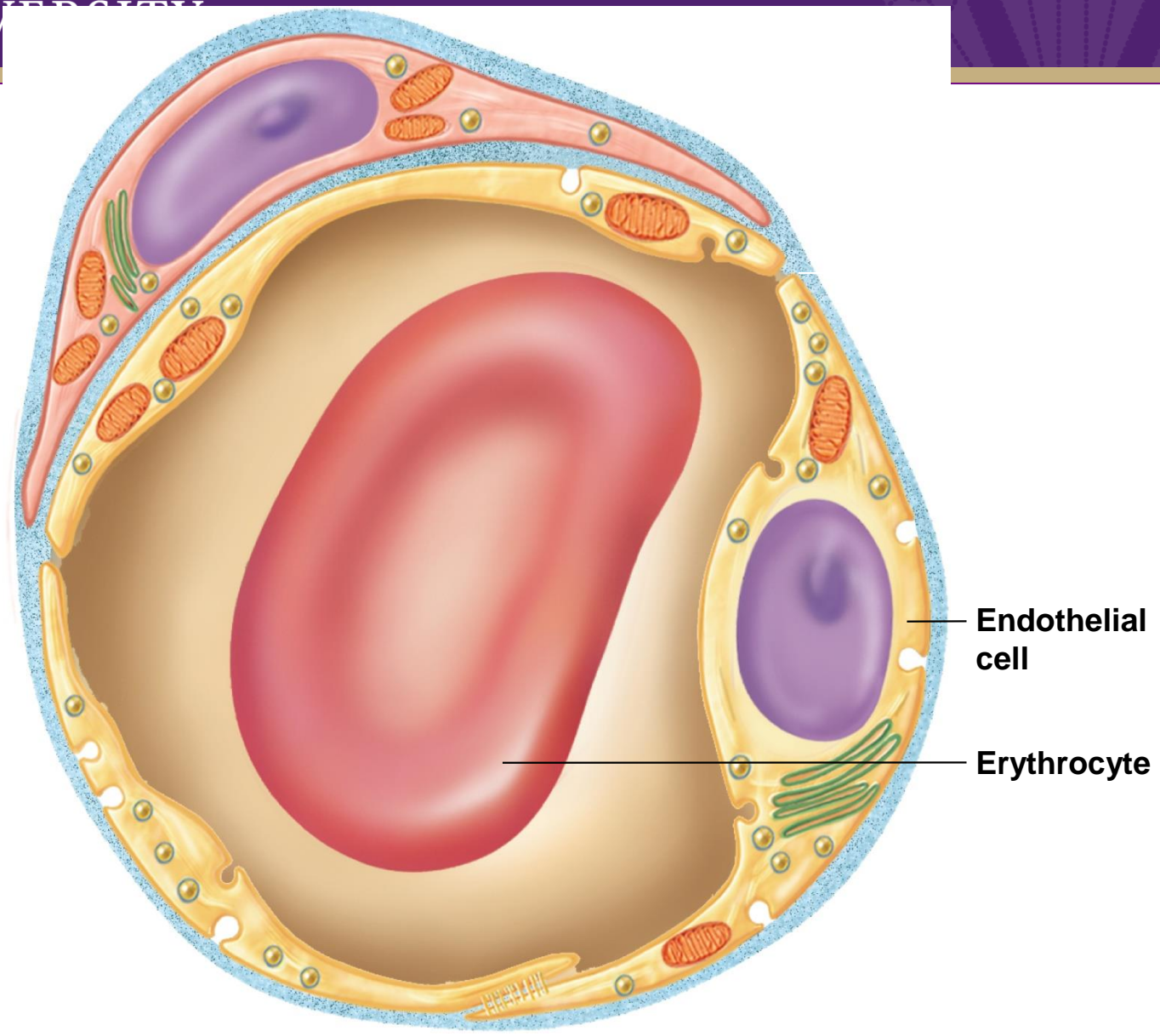


Fig. 20.5



Mechanisms of Venous Return

- Pressure gradient
- Gravity
- Skeletal muscle pump

Blood Pressure

- Force exerted on inner walls of vessels by blood
- Arterial pressure vs venous pressure
- Systolic pressure vs diastolic pressure