

Blood Flow Regulation

1. Autoregulation

- a. Arterioles regulate own blood flow depending on needs of tissue
- b. Regulated by chemical and metabolic changes
 - 1. Increased O_2 utilization
 - 2. Increased CO_2 , K^+ , H^+ , HLa

2. Extrinsic Neural Control

- a. Control exerted by SNS
- b. Can cause either:
 - 1. vasoconstriction/vasodilation
 - 2. venoconstriction

What effect does this have on blood pressure?

Regulation of Stroke Volume

Mechanisms to increase venous return

1. Venoconstriction
2. Muscle Pump
3. Respiratory Pump