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