

# Renal Sympathetic Activation in Hypertension

## Vascular Effects

Smooth muscle migration  
Vasoconstriction  
Wall Stiffness



## Cardiac Effects

Hypertrophy  
Arrhythmias  
Ischemia  
Heart Failure



Renal afferent  
nerves

Renal efferent  
nerves

Renal afferent  
nerves

## Renal Effects

Renin release  
RAAS  
Sodium retention  
Hypervolemia  
Decreased renal blood flow  
BNP resistance

