

# Regulation of blood pressure

## Stimulus = BP is too high:

Sensor = heart baroreceptors



Heart secretes ANP



Kidney response to that is:

which causes: ↑ GFR

↓ water reabsorption

↑ urine output

↓ blood volume

↓ blood pressure

Sensor = aortic arch & carotid artery baroreceptors

Integrating center = medulla,

which stimulates a parasympathetic response.

Heart response is:

↓ heart rate

Systemic arteriole response is:

vasodilate

both of which ↓ blood pressure