

## The Cardiovascular System: Factors That Affect Blood Pressure

1. What are the three main factors that influence total peripheral resistance (TPR)?
  - a.
  - b.
  - c.
2. Name three hormones that act as vasoconstrictors.
  - a.
  - b.
  - c.
3. Name two hormones that directly increase blood volume.
  - a.
  - b.
4. Track the effect on blood pressure by reducing venous return. Go through all the steps.  
↓ VR →
5. Categorize the following into:
  - A. Factors which increase blood pressure
  - B. Factors that decrease blood pressure

___ ↓ arterial diameter	___ ↑ total vessel length
___ ↑ vessel elasticity	___ ↓ plasma epinephrine
___ ↓ blood volume	___ ↓ plasma angiotensin
___ ↑ stroke volume	___ ↑ plasma ADH

\_\_\_ ↓ blood viscosity

\_\_\_ ↑ parasympathetic stimulation

\_\_\_ ↑ blood volume

\_\_\_ ↑ sympathetic stimulation

**Use arrows in the spaces for questions 6 through 10.**

6. A ↓ in hematocrit will result in \_\_\_ blood viscosity and \_\_\_ blood pressure.
7. Growth will result in \_\_\_ total vessel length and an \_\_\_ blood pressure.
8. Arteriosclerosis will result in \_\_\_ vessel elasticity and an \_\_\_ blood pressure.
9. Excessive sweating will result in a short term \_\_\_ in blood volume  
and a \_\_\_ in blood pressure.
10. An ↑ in epinephrine will result in \_\_\_ vessel diameter and an \_\_\_ in blood pressure.