

# [The cardiovascular system: factors that affect blood pressure](https://assignbuster.com/the-cardiovascular-system-factors-that-affect-blood-pressure/)

[Science](https://assignbuster.com/essay-subjects/science/), [Anatomy](https://assignbuster.com/essay-subjects/science/anatomy/)

NAME: \_ MAP Instructions: Select “ Study Area (myA&P) Select “ Interactive Physiology” (left tab)

Select “ Chapter 19: Cardiovascular System – Factors that Affect Blood Pressure”

Click “ Topic,” watch the tutorial, and then answer the following questions.

1. What are the three main factors that influence total peripheral resistance (TPR)? a. Turbulence b. Vascular Resistance c. A change in blood viscosity

2. Name three hormones that act as vasoconstrictors. a. Epinephrine b. Angiotensin II c. Antidiuretic Hormone

3. Name two hormones that directly increase blood volume. a. Antidiuretic Hormone b. Aldosterone

4. Track the effect on blood pressure by reducing venous return. Go through all the steps. VR decrease in stroke volume (SV) --> decrease in cardiac output (CO) --> decrease in blood pressure (BP)

5. Categorize the following into: A. Factors which increase blood pressure B. Factors that decrease blood pressure \_A\_\_\_ arterial diameter\_A\_\_\_ total vessel length \_B\_\_\_ vessel elasticity\_B\_\_\_ plasma epinephrine \_B\_\_\_ blood volume\_B\_\_\_ plasma angiotensin \_A\_\_\_ stroke volume\_A\_\_\_ plasma ADH B\_\_\_ blood viscosity\_B\_\_\_ parasympathetic stimulation \_A\_\_\_ blood volume\_A\_\_\_ 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.