

1. A mutation that results in a single amino acid change in the beta chain of hemoglobin is surprisingly common in people of sub-Saharan African ancestry. What is the likely explanation for this mutation to have stabilized in that population?
 - a. People who carry one copy of the mutant allele have a selective advantage because they are partially protected from Malaria infection
2. If a physician tells you that you have a perfect blood pressure of 120/80 mm Hg, which of the following are true (select all that apply)
 - a. The numbers indicate the systolic/diastolic pressure in aorta arteries close to the heart
 - b. It means your mean arterial pressure is ~93 mm Hg
 - c. It means your pulse pressure is 40 mm Hg
3. Mean arterial pressure increases with
 - a. Cardiac stroke volume
 - b. Blood volume
 - c. Total peripheral resistance
 - d. Blood viscosity
4. In which of the following does the elastic tunica externa make only a small contribution to wall thickness, while the contractile tunica media is very prominent
 - a. Arteriole