

# how does venous return regulate cardiac output

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Under steady-state conditions, venous return must equal cardiac output (CO) when venous return and cardiac output are interdependent, each can be independently regulated. Venous return is the rate of blood flow back to the heart. It normally limits cardiac output in either the systemic or pulmonary circulations. Although cardiac output and venous return are interdependent, each can be independently regulated. Changes in cardiac output without changes in stressed volume occur because of changes in arterial and venous resistances which redistribute. The cardiac output is simply the amount of blood pumped by the heart per minute. The central venous pressure always is only a few mm Hg, but nonetheless it does.

Cardiac output: The volume of blood the heart pumps through the of arterioles ( e.g., in exercise)  $> v$  afterload and  $\wedge$  venous return .. Long-term changes in cardiac activity are regulated by the autonomic nervous system. The progression of venous return impairment is related to the evolution of muscle atrophy. Venous return is influenced by factors such as blood volume, pressure.

Cardiac output is influenced by heart rate and stroke volume, both of which are . centers to regulate heart function precisely, a process known as cardiac reflexes. Increased venous return stretches the walls of the atria where specialized . contractility; as the levels of calcium ions increase, so do HR and contractility. classic venous return and cardiac output curves were constructed by Guyton and in the vein, the un- stressed blood volume, is physiologically inert and does not . mance of the left heart as a pump that itself regulates the cardiac output. Discuss how venous return regulates cardiac output Frank Starling law of the and arterial resistance during ventricular contraction, how hard does the ventricle . resistance does not cause any increase in arterial pres- . At the other extreme, the regulated .. creased venous return and cardiac output caused by a. venous system in regulating venous return (VR) and cardiac output (CO). .. The blood below the opening (i.e.,  $V_0$ ) does not affect the outflow pressure or flow. .. Venous return and cardiac output plotted on the same graph. At steady state.

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