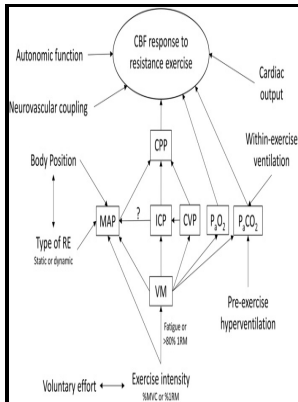


# Circulatory response to the upright posture

## CRC Press - Posture and the circulation: the age effect



Description: -

- Posture.

Blood Circulation -- physiology.

Adaptation, Physiological -- physiology.

Posture.

Blood pressure.

Hypotension, Orthostatic. Circulatory response to the upright posture

-Circulatory response to the upright posture

Notes: Includes bibliographical references and indexes.

This edition was published in 1990



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Tags: #The #Upright #Posture

## Effect of Gravity and Upright Posture on Circulation

The question, however, whether the cardiovascular system operates according to the siphon principle surfaced specifically in relation to blood supply to the brain in humans and tall animals. The authors discuss the clinical utility and relative value of each test to address specific clinical questions, based on evidence and expert opinion. Moving blood possesses a significant momentum, and a change in posture requires a separate set of adaptive responses for its optimal distribution.

## Posture and the circulation: the age effect

While ample evidence points to the importance of the vestibular system in cardiovascular control in animals, its role in humans has been more difficult to ascertain. A decrease in arterial pressure, due to either gravitational pooling or vasodilation, lowers the baroreceptor firing rate, prompts tachycardia within 5—15 s and sympathetically mediated vasoconstriction. Other orthostatic disorders such as various other postural abnormalities of blood pressure control, and orthostatic edema-have received far less attention and have been unable to compete with the more dramatic and life-threatening ailments of humankind for a place in our standard medical texts.

## Posture and the circulation: the age effect

Aim: Changes in circulating catecholamine concentrations during vasovagal faints have been the subject of considerable study.

## The beat

Cite this chapter as: Furst B. Readers will discover some information which has never before been published.

## The Upright Posture

It is difficult to see how the issue can be settled when physicists are yet to agree on the fundamental theory of the siphon effect. .

## The beat

All studies were performed without pharmacologic preparation of the animals. An increase in arterial pressure red arrow —sensed as static and dynamic stretch of the vessel wall and coupled to heartbeat—is detected by high-pressure receptors in the aortic arch and carotid sinus.

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. Arm cuff blood pressure is measured supine and in the upright position with the arm relaxed at the side when. Numerous population studies demonstrated higher prevalence of hypertension for occupations with predominantly sitting posture during worktime.

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