Effects of gravity and acceleration on the lung

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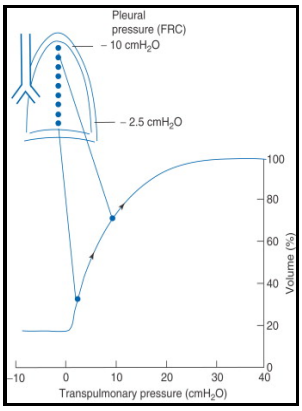

Description: -
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Acceleration (Physiology)
Gravity -- Physiological effect.
Lungs.
Space flight -- Physiological effect.effects of gravity and acceleration on the lung
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Effect of water immersion on cardiopulmonary physiology at high gravity (+Gz)

There is a decrease in endurance as the fibres change from the 'slow twitch' aerobic type to 'fast twitch' anaerobes.

Effect of gravity and posture on lung mechanics

Gravity-dependent deformation of lung tissue in turn is an important determinant of gas transfer between the gas and the blood in the lungs.

Theoretical considerations on the response of lung tissue to the acceleration of gravity

Giuseppe Miserocchi was the recipient of a research grant from the Agenzia Spaziale Italiana.

Freelance Traveller

Endocrine Fluid retention mechanisms are inhibited, most notably the renin-angiotensin-aldosterone axis and the secretion of vasopressin AKA antidiuretic hormone.

Effect of Acceleration and Weightlessness on Lung Mechanics

We conclude that most of the changes we observed during acceleration are due to the effect on the systemic circulation, rather than to the effect on the lung itself.

Effect of gravity and posture on lung mechanics, Journal of Applied Physiology

The long-term effects of decreased adrenal function in combination with this haven't been investigated. In the world of aviation this is called a G-LOC, aka G-induced loss of consciousness, and remains a significant cause of loss of aircraft and pilot in both military fighter aviation and civilian acrobatic aviation. Lung recoil pressure decreased by approximately 2.

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