## EFFECT OF LOW PRESSURES ON THE PHYSIOLOGICAL ASPECT OF HUMAN BODY FOR VARIED METEOROLOGICAL AND METABOLIC CONDITIONS

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## Abstract

Mathematical model for the impact of pressure drop on the human body has been investigated in the present studies. The studies has been aimed at personnel (army and mountaineer) who would be prone for higher altitude effect on the body and to suggest them appropriate measures (as a precautionary or advisory purpose) who either will be getting inducted onto higher altitudes venturing onto higher peaks. Effect of body acceleration and magnetic effects have also been considered in the studies to account for all the possible situation one many be prone during the training period. The model accounts for heights of altitudes ranging from 4000-6000 meters and accounting for all the possible cardiovascular diseases.

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Key Words: Physiological fluid dynamics, Heart Attack, Effect of Low pressure, Higher altitude, Flow rates of blood, Stress Factors.

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