



Effect of -6° head-down bed rest on EGG

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Abstract

AIM: To observe the change of EGG and to study the effect of simulated weightlessness on gastric motility.

METHODS: The weightlessness model was made by lying on bed with head down tilt -6° for 21 d. EGG was recorded in 15 volunteers

before and after meal using an ambulatory EGG.

RESULTS: The results showed that nausea, pain and loss of appetite appeared initially and weight of body declined significantly ($P < 0.01$). Bradygastria (< 2.4 cpm) increased apparently after 8 d bedrest. There was significant difference ($P < 0.05$) between preprandial and postprandial proportion of bradygastria using paired t test. The dynamics parameters of bradygastria declined significantly and bradygastria rhythm increased with duration of bedrest.

CONCLUSION: Simulated weightlessness caused gastric rhythm and gastric motility declining.

Key words: Weightlessness; Gastric rhythm; Motility

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