

## 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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