

## Observation on effect of acupuncture to smooth muscle electricity in dogs with weak gastrointestinal function

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### Abstract

**AIM:** To study effect of acupuncture on smooth muscle electricity of gastric disease with weak spleen in dogs.

**METHODS:** Ten adult healthy hybrid dogs were used. A couple of 2 mm round silver electrodes were implanted on serosal surface over gastric antrum of dog model with gastric disease due to weak spleen to record smooth muscle electricity.

**RESULTS:** The fast wave of dog model with gastric disease due to

weak spleen decreased pronouncedly or disappeared ( $P < 0.05$ ); The frequency of gastric smooth muscle electricity was slowed down obviously with dysrhythmia. Four weeks after treated with acupuncture, the smooth muscle electric activity recovered to normal level, while fast wave of control group was lower than that of acupuncture group. The dysrhythmia and abnormal electric rhythm still existed.

**CONCLUSION:** Acupuncture has good effects in treatment of gastric diseases due to weak spleen. The gastric smooth muscle electricity is a good index of diagnosis, treatment and effect evaluation of gastric diseases.

**Key words:** Acupuncture; Smooth muscle electricity; Gastrointestinal function

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