



## Effect of propranolol on the small intestinal myoelectric activities increased by Fructus Aurantii Immaturus

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### Abstract

**AIM:** To study the mechanism by which Fructus Aurantii Immaturus increases the myoelectric activities of small intestine.

**METHODS:** The parameters of small intestinal electric activities of the fasted healthy and conscious dogs were recorded with electrophysiological technique and processed by microcomputer. At first, one cycle duration of interdigestive myoelectric complex (IDMC)

recorded: On the fifth minute of phase 1 of IDMC, the concentrate solution (100%) of Fructus Aurantii Immaturus was perfused (1 mg/kg) into stomach, and propranolol (5 mg/10 mL) was perfused as soon as the action potential was induced. The other one or two cycle durations of IDMC should be recorded, too.

**RESULTS:** The cycle duration of IDMC in phase 1 was shortened and in phase 2 prolonged by Fructus Aurantii Immaturus. The effect could not be blocked by Propranolol.

**CONCLUSION:** The effect of Fructus Aurantii Immaturus may have no relation with  $\beta$  receptor.

**Key words:** Fructus aurantii; Propranolol; Small intestine

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