

عنوان مقاله:

Antispasmodic effects of Citrus aurantium flowers aqueous extract on uterus of non-pregnant rats

محل انتشار:

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خلاصه مقاله:

Background: Citrus aurantium is a small citrus tree, with scented white flowers. The C. aurantium is used in Asian herbal medicine primarily to treat digestive problems. **Objective:** The goal of this study is to investigate the effect of C. aurantium flower's aqueous extract on uterine contraction in presence of some known uterus stimulants. **Materials and Methods:** In experimental study 30 virgin Wistar rats 200-300gr were obtained. After laparotomy, a piece of Uterus was dissected out and mounted in an organ bath (10ml) containing De Jalon (29°C) and contracted by KCl (60mM), oxytocin (10mU/ml) and barium chloride (4mM) then the effect of C. aurantium flower's aqueous extract (1-8 mg/ml) on the uterine contractions was investigated. Uterus was separately incubated with propranolol (1M), naloxone (1M) and the role of β -adrenoceptors, opioid receptors were evaluated. **Results:** Cumulative concentrations of the extract (1-8 mg/ml) decreased KCl, oxytocin and barium chloride induced uterine contractions, dose-dependently ($p < 0.001$). C. aurantium flower's aqueous extract was unaffected on incubation the tissue with propranolol and naloxone. **Conclusion:** It seems that the extract induced antispasmodic effect mainly via calcium influx blockade. However, neither β -adrenoceptors nor opioid receptors were involved. Since the extract has antispasmodic effect on uterus contraction therefore we can suggest that more study will be necessary to relief dysmenorrheal.

کلمات کلیدی:

Citrus aurantium, Propranolol, Naloxone, Antispasmodic, Uterus, Rat

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