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گواهی می‌باشد:

آقای / خانم سرمد دربان فولادی

در "کنگره اعتیاد و روانپزشکی" (کد پرنده: ۱۱۰۱۵۱۴۶) که در تاریخ ۹۲۲۰-۶۲۳۲ لغایت ۹۲۲۰-۶۲۳۲ در تهران توسط مرکز تحقیقات علوم پزشکی ایران (کد سازمان: ۱۱۶۳۳۷) برگزار گردید، به عنوان ارائه دهنده پوسته با عنوان:

" Swelling of rat's uterus due to opioid sedative drugs can be controlled by Larginine "

محضر دانشکده و تازجه به صورت شماره ۱۳۲۱۲۵۹ مورخ ۹۲۲۰-۶۲۰۹ اداره آموزش علوم پزشکی وزارت بهداشت و درمان آموزش پزشکی برابر با اعتیاد را کست کردمانند

این گروهی منحصراً جهت تأیید شرکت در برنامه‌های آموزشی مداوم بوده و جایگزین مدارک آموزشی و تخصصی نمی‌باشد.

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Swelling of rat's uterus due to opioid sedative drugs can be controlled by L-arginine

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Abstract

Background & objectives: Morphine and its competitive antagonist naloxone are used, abused as the opioid sedative. We sought to show the well effect of L-arginine on side effects of naloxone, morphine on uterus of rat.

Material & Methods: Subjects (Wistar rats, 200-250 g) were kept in animal house under standard temperature with 12 h light as a rhythm. They were categorized into groups that intra-peritoneally (i.p.) solely received the precursor of nitric oxide (NO), L-arginine (50 mg/kg, 9 days, once per day), or administered the agent 30 min after receiving of naloxone (0.4 mg/kg, i.p., 1). Another group were injected morphine (5 mg/kg, i.p.) throughout the experiments, prior to the cumulative naloxone-NO agent. The control groups received saline (1 ml/kg, i.p.) instead of the appropriate drug. The animals after completion of the experiments were surgically examined.

Results: All uteri samples obtained from animals that cumulatively received morphine-naloxone-L-arginine showed no change in the diameters of uteri compared to those of saline control animals. **Discussion:** The sedative mechanism of the L-arginine precursor may interfere with probable inflammatory effects of opioid sedative drugs. The present finding may show the L-arginine related modulator effect on rats' uteri inflammation by the opioids.

Key words: Opioid drug, L-Arginine, Uterus, Inflammation