



## 国产七氟烷用于开腹子宫切除术时药代动力学和药效学特性

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## Pharmacokinetic and Pharmacodynamic Characteristics of the Domestic Sevoflurane for Transabdominal Hysterectomy

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摘要

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**摘要 目的** 对比观察国产七氟烷与进口七氟烷药代动力学和药效学特性, 评价国产七氟烷的临床疗效。 **方法** 80例全麻下行开腹子宫切除术患者, 采用随机数字表法根据随机双盲原则分为两组: 国产七氟烷组使用国产七氟烷维持麻醉, 进口七氟烷组使用进口七氟烷维持麻醉。记录两组患者一般情况、生命体征、吸入麻醉药浓度变化 [包括诱导期麻醉药的吸入浓度与挥发罐设定浓度比值达到1/2的时间、麻醉药的呼气末浓度与挥发罐设定浓度比值达到1/2的时间以及麻醉药的呼气末浓度与吸入浓度比值达到1/2的时间、诱导期麻醉药呼气末浓度达到0.8 MAC (肺泡最小有效浓度) 的时间以及苏醒期麻醉药呼气末浓度与肺泡内麻醉药浓度比值达到1/2的时间], 术毕记录苏醒时间、拔除气管内导管时间、应答时间和定向力恢复时间。 **结果** 两组患者一般情况比较差异无统计学意义, 术中各时点血流动力学和药代动力学参数比较差异无统计学意义, 两组患者诱导期和苏醒期麻醉药吸入浓度、呼气末浓度及肺泡最小有效浓度值的变化趋势以及苏醒时间差异无统计学意义。 **结论** 国产七氟烷与进口七氟烷相比具有相似的药代动力学特性, 可用于妇科开腹手术麻醉, 且可有效降低麻醉药品相关费用。

**关键词:** 七氟烷 药代动力学 药效学 医疗费用

**Abstract:** Objective To evaluate the clinical efficacy of domestic sevoflurane by comparing the pharmacokinetic and pharmacodynamic characteristics of domestic sevoflurane and an imported product. **Methods** Eighty patients undergoing general anesthesia for transabdominal hysterectomy were equally randomized into domestic sevoflurane group and imported sevoflurane group. The following data were recorded and compared: vital signs; change of sevoflurane concentrations in the induction period and recovery period; the time when inhaled sevoflurane concentration reached half of the pre-set concentration of the vaporizer; the time when the end-tidal sevoflurane concentration reached half of the pre-set concentration of the vaporizer; the time when the end-tidal sevoflurane concentration reached half of inhaled sevoflurane concentration; the time of the end-tidal sevoflurane concentration reached 0.8 MAC in the induction period; the recovery time; the extubation time; and time to recovery of consciousness. **Results** The general conditions of the two groups were not significantly different. The pharmacokinetic and pharmacodynamics parameters at the intra-operative time points as well as the minimal alveolar concentration, the inspired and end-tidal sevoflurane concentrations, and the time to recovery of consciousness also showed no significant differences between the two groups. **Conclusion** The domestic sevoflurane has similar pharmacokinetic and pharmacodynamic characteristics as the imported products. It can serve as a cost-effective product for transabdominal hysterectomy.

**Keywords:** sevoflurane pharmacokinetics pharmacodynamics medical cost

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