

论文

用放射免疫法比较肌注和阴道给黄体酮的生物利用度

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摘要:

关键词: 黄体酮 放射免疫法 生物利用度 统计矩

COMPARATIVE STUDY ON BIOAVAILABILITY OF PROGESTERONE BY RADIOIMMUNOASSAY AFTER VAGINAL AND INTRAMUSCULAR ADMINISTRATION

XIE Xing-Huei; YUAN Liu-Hua; XIONG Quan-Mei; TAO Tao; SHAO Jin-Yu and BAO Zhen-Ying

Abstract:

Serum levels of progesterone were determined after vaginal and intramuscular administration of progesterone 50 mg to eight women (27~42 years of age). Subjects were injected in the follicular phase of the menstrual cycle, i.e. on the 9~13 th day of the menstrual cycle. Blood samples were collected at 0, 1, 1.5, 2, 3, 5, 7, 12 and 24h after administration and serum concentration of progesterone were determined by RIA. Pharmacokinetic parameters were calculated by both one-compartment open model and statistical moment non-model analysis. Their absorption rate constant, elimination rate constant and time to peak (Tmax) were approximate, which were 0.50~0.66, 0.06~0.05 and 5 h respectively. The mean residence time of drug in the body (MRT) of suppository was 21h and that of injection was 20 h. Area under the serum concentration-time curve for suppository was 0.27~0.28 times that of injection (P<0.01).

Keywords: Radioimmuno assay Bioavailability Statistical moment Progesterone

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