#### 研究简报

# 液闪法研究 $^{63}$ Ni-NiCl<sub>2</sub>在大鼠体内的吸收、分布及排泄

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摘要

采用液体闪烁计数法研究了  $^{63}$ NiNiCl $_2$ 在大白鼠体内的吸收、分布以及排泄。结果显示:  $^{63}$ NiNiCl $_2$ 在大白鼠体内的血药时间 浓度曲线符合二房室开放模型,吸收速率常数 K  $^{63}$ NiNiCl $_2$ 在大白鼠体内的血药时间 浓度曲线符合二房室开放模型,吸收速率常数 K  $^{63}$ NiNiCl $_2$ 在大白鼠体内的血药时间 浓度曲线符合二房室开放模型,吸收速率常数 K  $^{63}$ NiNiCl $_2$ 位)  $^{63}$ NiNiCl $_2$ 位的,消除相半衰期  $^{63}$ NiNiCl $_2$ 位的, 达峰浓度 C  $^{63}$ NiNiCl $_2$ 位的, 达峰浓度 C  $^{63}$ NiNiCl $_2$ 位的,  $^{63}$ NiNiNiCl $_2$ 位的,  $^{63}$ NiNiCl $_2$ 位的,  $^{63}$ N

关键词 63<u>Ni-NiCl</u>2 <u>吸收</u> <u>分布</u> <u>排泄</u> 分类号

Absorption Distribution and Excretion of  $^{63}\mathrm{Ni}\text{-NiCl}_2$  in Rat

#### **Abstract**

The uptake, distribution and excretion of  $^{63}\text{NiNiCl}_2$  in rat were studied by liquid scintillation counting method. It was observed that the concentration—time curves in blood fitted the two dic ompart—ment model of pharmacokinetics,  $K_a = 6.18 \text{ h}, T_{1/2(\alpha}) = 0.79 \text{ h}, T_{1/2(\beta)} = 4$   $0.68 \text{ h}, \text{CL} = 0.42 \text{ mL} \cdot \text{kg} ^{-1} \cdot \text{h}^{-1}$  ,  $T_{peak} = 0.53 \text{ h}, C_{max} = 14.99 \text{ GBq/L}, V_d = 0.01$  6 L/kg.  $^{63}\text{NiNiCl}_2$  was existed in all of 12 tissues tested; at 0.25 h, radioactivity in intestin e were the highest, and that in stomach and fattiness were higher; at 3 h, liver, stomach and intestine were higher; the germen was the least; The liver and lung was the higher at 24 h. In 24 h 83.2 6% of radioactivity of oral administration was eliminated by urine and feces, 54.86% by urine, 2 8.41% by feces.

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Key words Absorption Distribution Elimination

