

论文

异亚丙基莽草酸抗血栓作用的实验研究

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摘要:

目的研究异亚丙基莽草酸(ISA)对大鼠动静脉环路血栓、大脑中动脉栓塞及血小板聚集的对抗作用及机制。方法用动静脉环路血栓及三氯化铁致大鼠中动脉栓塞(MCAT)模型观察药物作用;并研究了ISA体内、外给药对血小板聚集的影响。结果ISA 25,50,100及200 mg·kg⁻¹ ig均可显著降低大鼠体外血栓重量;ISA 50,100,200 mg·kg⁻¹ ig可明显改善MCAT模型大鼠神经症状;ISA 100及200 mg·kg⁻¹ ig MCAT模型大鼠脑梗塞范围分别下降27.8%和31.6%;另外,ISA体内、外给药对ADP和胶原诱导的血小板聚集有明显的抑制作用。结论ISA可能通过抗血小板聚集作用抑制血栓的形成。

关键词: 异亚丙基莽草酸 血栓 大脑中动脉 脑缺血 脑梗死 血小板聚集

EXPERIMENTAL STUDIES ON THE ANTI-THROMBOSIS EFFECT OF 3,4-OXO-ISOPROPYLIDENE-SHIKIMIC ACID

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Abstract:

AIMTo study the effect of 3,4-oxo-isopropylidene-shikimic acid (ISA) against arteriovenous shunt and middle cerebral artery thrombosis (MCAT) in rats. METHODSArteriovenous shunt model was adopted to measure thrombus weight; The neurologic deficit (ND) and the infarct size (IS) of the middle cerebral thrombosis (MCAT) model induced by FeCl₃ were observed; The effect of ISA on platelet aggregation rate of rat and rabbit by giving ISA *in vivo* and *in vitro* was studied. RESULTSISA 25, 50, 100 and 200 mg·kg⁻¹ ig was shown to reduced the weight of thrombus in arteriovenous shunt model; ISA 50, 100 and 200 mg·kg⁻¹ ig for 2 times in 24 hours, attenuated the ND of rats subjected to MCAT; ISA 100 and 200 mg·kg⁻¹ reduced IS of rats after MCAT by 27.8% and 31.6%, respectively; ISA 50, 100 and 200 mg·kg⁻¹ ig inhibited platelet aggregation of normal rats; ISA 10⁻³~10⁻⁵ mol·L⁻¹, inhibited rabbit platelet aggregation *in vitro*. CONCLUSIONISA inhibited thrombosis by anti-platelet-aggregation.

Keywords: thrombosis cerebral artery cerebral ischemia cerebral infarction platelet aggregation 3,4-oxo-isopropylidene-shikimic acid

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