

论文

乙酰丹酚酸A对大鼠大脑中动脉血栓所致局部脑缺血性损伤的保护作用

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摘要:

乙酰丹酚酸(ASAA)是丹参有效成分的衍生物。用三氯化铁局部涂抹损伤血管形成大鼠大脑中动脉血栓模型。以脑梗塞范围、行为障碍、脑组织病理改变为观察指标,研究ASAA对大脑中动脉血栓所致局部脑缺血的预防作用。结果表明,ASAA50及100 mg·kg⁻¹iv可显著降低大鼠脑梗塞范围,改善行为障碍。脑组织检查中,ASAA100 mg·kg⁻¹组动物大脑中动脉内血栓形成极少或未形成,脑组织缺血病变较轻。以上结果提示,ASAA可能通过抑制脑血栓形成,从而减轻血栓形成所致的局部脑缺血性损伤。

关键词: 大脑中动脉血栓模型 局部脑缺血 丹酚酸 丹参

BENEFICIAL EFFECTS OF ACETYLSALVIANOLIC A ON FOCAL CEREBRAL ISCHEMIC RATS SUBJECTED TO MIDDLE CEREBRAL ARTERY THROMBOSIS

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Abstract:

Acetylsalvianolic acid A(ASAA)is a semisynthetic analogue of salvianolic acid A isolated from Danshen (*Salvia miltiorrhiza* Bunge).A rat middle cerebral artery thrombosis model was made by adding FeCl₃ to the surface of the right middle cerebral artery(MCA).Using this model,the protective effects of ASAA on focal cerebral ischemic injury were studied.The neurologic status of each rat was carefully evaluated at 4,8 and 24 h after surgery.The cerebral infarction and the morphological changes of brain tissue were examined.Pretreatment with ASAA 50 or 100 mg·kg⁻¹ iv was shown to significantly reduce the cerebral infarction and attenuate neurological deficits.The degree of inhibition of cerebral infarction were 46.5% (P<0.05)and 87.4%(P<0.01),respectively. In pathological examination,pretreatment with ASAA 100 mg·kg⁻¹ iv,there was no thrombosis or only a little thrombosis in MCA.The extent of tissue ischemia was much less than that of control.These results indicate that the beneficial effects of ASAA on focal cerebral ischemic rats subjected to middle cerebral artery thrombosis may be related to its antithrombotic effect.

Keywords: *Salvia miltiorrhiza* Model of middle cerebral artery thrombosis:Focal cerebral ischemia: Salvianolic acid

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