

论文

迷迭香酸抗血栓和抗血小板聚集作用

邹正午;徐理纳;田金英

\*广西柳州地区药检所;中国医学科学院药物研究所,北京100050

摘要:

迷迭香酸是丹参水溶性成分之一。大鼠体内实验(iv)表明,它能抑制静脉血栓形成。阻抑胶原诱导的血小板聚集,促进纤维蛋白溶解活性。当剂量为50及100 mg/kg时,血栓形成的抑制率分别为41.9和54.8%(P<0.05)。当剂量为100及150mg/kg时,血小板聚集的抑制率分别为30.4%(P<0.05)和46.4%(P<0.01),血浆优球蛋白溶解时间缩短(P<0.05)。纤维蛋白原含量无明显变化。以上结果说明,迷迭香酸有温和的抗血栓作用。其机理可能与抗血小板聚集和增强纤维蛋白溶解活性有关。

关键词: 迷迭香酸 血栓形成 血小板聚集 纤维蛋白溶解活性 丹参

ANTI THROMBOTIC AND ANTI PLATELET EFFECTS OF ROSMARINIC ACID, A WATER—SOLUBLE COMPONENT ISOLATED FROM RADIX SALVIAE MILTIORRHIZAE (DANSHEN)

ZW Zou ; LN Xu and JY Than

Abstract:

Wistar rats of both sex were used. Ros A was intravenously injected 5~10 min before blood collection or the ligation of vena cava. 1. Stasis-induced venous thrombosis: A tight ligature was applied to inferior vena cava below the left renal vein in anesthetized rats. The abdominal walls were closed and then reopened two hours later. The vena cava was clamped 2 cm below the ligature. This segment was cut to remove the thrombus. The dry weight of the thrombus was determined. 2. Platelet aggregation: Using Born's method the platelet aggregation induced by collagen or ADP was studied. 3. Blood coagulation times: Blood recalcium time(RT), kaolin partial thromboplastin time (KPTT) and prothrombin time (PT) were estimated. 4. Plasma fibrinolytic activity was observed by the determination of eugloholinolytic time (ELT). Plasma fibrinogen content was estimated based on the biuret reaction. The venous thrombosis was inhibited by 41.9% and 54.8% (P<0.05) when Ros A was injected at the dosages of 50 and 100 mg/kg. The blood platelet aggregation elicited by collagen was suppressed by 30.4% (P<0.05) and 46.4% (P<0.01) after the injection of Ros A at doses of 100 and 150 mg/kg respectively. The ELT was shortened after the injection of Ros A (100 and 150 mg/kg) as compared with the control value (P<0.05), while the plasma fibrinogen content remained unchanged. The results indicate that Ros A showed mild antithrombotic effect. The mechanism of this effect might be related to its inhibition of platelet aggregation and promotion of fibrinolytic activity.

Keywords: Thrombosis Platelet aggregation Fibrinolytic activity Salvia miltiorrhiza Rosmarinic acid

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