

论文

阿魏酸钠和阿斯匹林联用对大鼠血小板聚集的影响及对PGI₂-TXA₂平衡的调节

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摘要:

单独给大鼠口服阈下剂量的阿魏酸钠(SF)或阿斯匹林(ASA)对胶原诱导的血小板聚集及对颈动脉壁PGI₂样物质的释放均无明显作用。两药并用后大鼠血小板聚集及血小板TXA₂样物质的释放均显著地受到抑制,动脉壁PGI₂样物质的释放则无明显变化。说明SF与小剂量ASA联用可增强抗血小板作用。

关键词: 阿魏酸钠 阿斯匹林 血小板聚集 前列环素 血栓素A₂

EFFECTS OF SODIUM FERULATE COMBINED WITH ACETYLSALICYLIC ACID ON RAT PLATELET AGGREGATION AND ON MODULATION OF PGI₂-TXA₂ BALANCE

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Abstract:

Sodium ferulate is one of the constituents of Dang-Gui (Angelica sinensis). In this paper platelet aggregation was measured by turbidimetric method. TXA₂ activity was estimated by measuring the contraction of rabbit thoracic aorta and PGI₂ activity by measuring inhibition of platelet aggregation induced by ADP. Results indicate that neither platelet aggregation nor carotid arterial PGI₂-like substance release was affected by oral administration of a subthreshold dose of sodium ferulate(300 mg/kg) or a subthreshold dose of acetylsalicylic acid(10mg/kg). However, sodium ferulate in combination with acetylsalicylic acid at the same doses was shown to inhibit platelet aggregation and TXA₂-like substance release (induced by collagen) by 65% and 84%, respectively, while the production of arterial PGI₂-like substance remained unchanged. These results indicate that the combined treatment with these two drugs can potentiate the antiplatelet effects without inhibiting arterial PGI₂-like substance release. These data may be of value for the treatment of thrombo-embolic diseases.

Keywords: Acetylsalicylic acid Blood platelet aggregation Prostacylin Thromboxane Sodium ferulate

收稿日期 1984-01-26 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

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