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论文

三乙酰莽草酸对血小板聚集的抑制作用

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摘要：

目的：研究三乙酰莽草酸（TSA）对血小板聚集功能的抑制作用及其作用机理。方法：用比浊法测定血小板聚集功能，分光光度法测定MDA的含量，放免法测定TXB_2，6-酮-$PGF_{1\alpha}$，cAMP和cGMP的含量。结果：TSA 12.5，25，50，100和200 $mg.kg^{-1}$ ig明显抑制ADP和胶原诱导的大鼠血小板聚集；TSA 12.5，50和200 $mg.kg^{-1}$ ig显著增加大鼠血小板内cAMP水平，但不影响cGMP水平。TSA 200 $mg.kg^{-1}$对AA诱导的血小板中MDA的生成，ADP诱导的血小板中TXB2和腹主动脉壁6-酮-$PGF_{1\alpha}$的生成有轻度抑制作用。结论：TSA抑制血小板聚集作用部分与血小板内cAMP水平升高有关。

关键词： 三乙酰莽草酸 血小板聚集 血栓素B2 6-酮-$PGF_{1\alpha}$

INHIBITORY EFFECTS OF TRIACETYLSHIKIMIC ACID ON PLATELET AGGREGATION

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Abstract:

AIM: To study the inhibitory effects of triacetylshikimic acid (TSA) on rat platelet aggregation and its mechanism. METHODS: Light transmission was used to measure platelet aggregation. Methods of spectrophotometry and radioimmunoassay were used to measure the levels of malondialdehyde(MDA), thromboxane B_2(TXB_2), 6-keto-$PGF_{1\alpha}$, cAMP and cGMP.RESULTS: TSA 12.5, 25,50,100 and 200 $mg.kg^{-1}.d^{-1}$ ig for 3 d inhibited the rat platelet aggregation induced by ADP and collagen. TSA 12.5, 50 and 200 $mg.kg^{-1}$ markedly increased the cAMP level and exhibited no effect on the cGMP level in rat platelets. TSA 200 $mg.kg^{-1}$ was shown to slightly inhibit AA-induced MDA generation and ADP-induced TXB_2 formation in rat platelets, and to slightly suppress 6-keto-$PGF_{1\alpha}$ generation from the abdominal aortae. CONCLUSION: TSA was found to be a potent inhibitor of platelet aggregation, which was partially concerned with the elevation of cAMP in platelets.

Keywords: platelet aggregation thromboxane B_2 6-keto-prostaglandin $F_{1\alpha}$ triacetylshikimic acid

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