

论文

川芎嗪对兔血小板膜流动性、电泳迁移率的影响及其与抗凝作用的关系

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摘要:

关键词: 血小板聚集性 川芎嗪 膜流动性 电泳迁移率

EFFECTS OF TETRAPYRAZINE ON MEMBRANE FLUIDITY AND ELECTROPHORETIC MOBILITY OF PLATELETS AND THE RELATION TO ITS ANTIAGGREGATION EFFECT

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Abstract:

It was shown with turbidimetry that tetrapyrazine can inhibit platelet aggregation. Tetrapyrazine was found to increase the membrane fluidity of platelets using fluorescence polarization. On the contrary, no effect was found on the membrane fluidity of liosomes of various constituents and that of the erythrocytes membran. These results suggest that inhibition was not caused by affecting the membrane lipid directly. Our experiment also showed that tetrapyrazine could raise the electrophoretic mobility of platelet, that is, increase its surface charge density. Besides, tetrapyrazine may increase the fluorescence intensity of ANS. a fluorescence probe labeled on the surface of platelet membrane. The possibility that tetrapyrazine may have the ability to substitute Ca²⁺ ions of platelet membrane is discussed.

Keywords: Tetrapyrazine Membrane fluidity Electrophoretic mobility Platelet aggregation

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