

论著

硝喹对体外培养的约氏疟原虫红内期膜磷脂的影响

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摘要

目的: 探讨硝喹抗疟作用机理。方法: 用蜡虫缸法体外培养约氏疟原虫红内期, 以[3H]-乙醇胺掺入疟原虫膜磷脂作指标, 观察硝喹对疟原虫膜磷脂合成的影响; 以DPH作为荧光探针, 测膜荧光偏振度及微粘度。结果: 硝喹明显抑制[3H]-乙醇胺掺入约氏疟原虫, 并增高约氏疟原虫膜荧光偏振度和微粘度。结论: 硝喹可明显抑制疟原虫膜磷脂的生物合成, 并明显降低膜流动性

关键词 [约氏疟原虫](#) [膜磷脂](#) [生物合成](#) [膜流动性](#)

分类号

EFFECT OF NITROQUINE ON THE MEMBRANE PHOSPHOLIPID OF INTRAERYTHROCYTIC PLASMODIUM YOELII IN VITRO

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Abstract

AIM: To study the mechanism of antimalarial action of nitroquine. METHODS: Intraerythrocytic *P. yoelii* was cultured by the method of Trager and Jensen. The amount of [3H] ethanolamine incorporation was measured as an index of the phospholipid synthesis. DPH was used as a probe to measure the plasmodial fluorescent polarization. RESULTS: The incorporation of [3H] ethanolamine into the *P. yoelii* infected erythrocytes was markedly inhibited by nitroquine. The plasmodial membrane polarization and viscosity were significantly increased by nitroquine. CONCLUSION: Nitroquine could inhibit the phospholipid synthesis and decrease the membrane fluidity of *P. yoelii*.

Key words [Plasmodium yoelii](#) [membrane phospholipid](#) [biosynthesis](#) [membrane fluidity](#)

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