实验研究

云南省恶性疟原虫对氯喹、氨酚喹、哌喹、甲氟喹、奎宁敏感性的 体外测定

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目的:了解云南省恶性疟原虫对氯喹、氨酚喹、哌喹、甲氟喹及奎宁的敏感性。方法:采用Riec kmann体外微量法测定采自云南省瑞丽11个县、市的恶性疟原虫对以上药物的敏感性。结果:云南 省南部、东南部及西部恶性疟原虫对氯喹抗性率分别为96.7%、78.9%及95.7%, ID50 依次为125nmol/L、136nmol/L、及176nmol/L;对氯酚喹的抗性率分别为1 00%、85.3%及88.9%, ID50依次为52nmol/L、54nmol/L及72nmo 1/L; 对奎宁均为敏感, ID50依次为480nmol/L、352nmol/L及608nmol /L。南部及东南部原虫对哌喹的抗性率分别为68及88nmol/L;结论:云南省恶性疟原虫对4 一氨基喹啉类药物普遍产生抗性,其抗性程度来自滇西及其相连的缅甸感染的疟原虫明显高于滇东南;对 奎宁及甲氟喹敏感。氯喹、氨酚喹及哌喹目前已不适应于云南恶性疟的治疗

关键词 恶性疟原虫,体外测定,氯喹,氨酚喹,哌喹,甲氟喹,奎宁

分类号

ASSAY OF SENSITIVITY OF PLASMODIUM FALCI PARUM TO CHLOROQUI NE, AMODI AQUI NE, PI PERAQUI NE, MEFLOQUINE AND QUININE IN YUNNAN PROVINCE *

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Abstract

AIM: To determine the sensitivity of P.falciparum to

chloroquine, amodiaquine, piperaquine, mefloquine and quinine in Yunnan Province of China in 1992~1995.METHODS: Rieckmann s in vitro microtechnique was used. The sensitivity of P.falciparum was tested to the above mentioned antimalarials. RESULTS: The resistance rates of isolates of P.falciparum from the south, southeast and the west part of Yunnan to chloroquine and amodiaquine were 96 7%(29/30),78 9%(30/38),95 7%(22/23) and 100%(30/30),85 3%(29/34),8/9, respectively, with their corresponding ID 50 of 125 nmol/L,136 nmol/L and 176 nmol/L, and 52 nmol/L,64 nmol/L and 72 nmol/L, respectively. All the isolates were sensitive to quinine and their ID 50 were 480 nmol/L ,352 nmol/L,608 nmol/L ,respectively. The resistance rates of P.falciparum from the south part and southeast part of Yunnan to piperaquine were 96 4%(27/29),72 9 (27/37), respectively, their ID 50 were 320 nmol/L and 228nmol/L; all the cases were sensitive to meflogine, their ID 50 were 68 nmol/L and 88 nmol/L. CONCLUSION: P.falciparum generally produces resistance to chloroquine, amodiaquine and piperaquine in Yunnan Province; the degree of resistance to chloroquine of P.falciparum from the west part of Yunnan were higher than the P. falciparum from the southeast part of Yunnan; all the isolates were sensitive to mefloquine and quinine in this region. Key words Plasmodium falciparum in vitro microtechnique chloroquine amodiaquine piperaquine mefloquinine quinine

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