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## 论文

1,2:5,6-二去水卫矛醇与美登新联合用药的实验研究

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摘要:

去水卫矛醇(DAG)和美登新(MAY)同时或间隔24小时给药(无论先后顺序如何),对EAC小鼠的生命延长和杀瘤细胞均有协同作用;不同先后顺序给药对L1210得到同样结果,但同时给药则无协同作用。给DAG后24小时再给MAY,对接种21天的B16黑色素瘤瘤重抑制率超过了"相加作用",但不能延长生命。联合用药对HepA及S180无协同疗效。联合使用DAG及MAY,对正常小鼠骨髓干细胞的杀灭低于"相加作用"。本实验表明,DAG及MAY间隔24小时给药较同时给药为佳。

关键词: 1,2:5,6-二去水卫矛醇 美登新 抗肿瘤作用 联合用药 骨髓干细胞

# USE OF 1,2: 5, 6-DIANHYDROGALACTITOL IN COMBINATION WITH MAYTANSINE IN EXPERIMENTAL TUMOR THERAPY

FAN Yi-jun; ZHOU Junand LI Mao

#### Abstract:

The inhibitory effects of the combination of 1,2:5,6-dianhydrogalactitol (DAG) and maytansine (MAY) on the growth of Ehrlich ascites cancer (EAC), L1210 leukemia, ascites hepatoma, B 16 melanoma, sarcoma 180 and bone marrow stem ceils in mice were studied. Simultaneous administration or sequential administration of the two drugs with a time interval of 24 hours, independent of their order, produced a synergistic inhibitory effect on EAC, showing a prolongation of the life span of the mice or reduction of the number of tumor cells. The result obtained with L1210 leukemia was similar to that obtained with EAC, except for simultaneous administration of the two drugs. When DAG Was given 24 hours before MAY, the inhibition of tumor weight in B 16 melanoma on day 21 was found to be more than the additive effect of either drug, but the survival time of the tumor-bearing mice was not prolonged. In experiments with both ascites hepatoma and sarcoma 180, no synergism of the combination chemotherapy was observed. The combination of DAG and MAY produced less cell kill than the additive effect of the two drugs on normal bone marrow stem cells. From our data it would seem advantageous to administer these two agents, separated by a time interval of 24 hours, rather than giving them simultaneously.

Keywords: Maytansine Antitumor effect Combination chemotherapy Bone marrow stem cell 1, 2: 5, 6-Dianhydrogalactitol

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