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1: Anticancer Res 1994 Jul-Aug;14(4A):1521-4

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Chemotherapy of human carcinoma xenografts during pulsed magnetic field exposure.

Hannan CJ Jr, Liang Y, Allison JD, Pantazis CG, Searle JR.

Radiology Department, Medical College of Georgia, Augusta 30912.

Immune deficient mice growing xenografts of HT-29 or A-431 cell lines were treated with cisplatin, carboplatin or doxorubicin in combination with one hour of wholebody pulsed magnetic field (PMF) exposure (calculated peak field 5.2 mTesla, with an average field strength of 0.525 mTeslarm; pulses rose for 120 microseconds and then abruptly fell to neutral, and were repeated at a rate of 250 pulses per second). At 24 days, the mice in each experiment were found to have significantly ($p < 0.05$, ANOVA) different tumor sizes among groups. The smallest mean tumor volume was consistently found in the drug+PMF group. With A-431 tumors, the cisplatin+PMF group (T) was significantly smaller, 52% [1-(100T/C)], than the cisplatin alone group (C). In HT-29 tumors, those treated with carboplatin+PMF had the smallest tumor volume at just 34% of the carboplatin-alone group. In HT-29 tumors, the doxorubicin+PMF group was 35% of the doxorubicin alone group.

PMID: 7979179 [PubMed - indexed for MEDLINE]

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