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Title: Effects of hyperbaric oxygen on adriamycin-induced skin lesions in an animal model.

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Abstract: Adriamycin (doxorubicin hydrochloride), an anthracycline antibiotic, is an effective chemotherapeutic agent against various types of cancer. Since it is commonly administered by intravenous injection, accidental extravasation may occur, resulting in skin ulcers at the injection site. These lesions have painful necrotic bases and surrounding areas of erythema. In this study, the effects of hyperbaric oxygen (HBO) on adriamycin-induced lesions are examined. Adriamycin-induced lesions are simulated by intradermal injection of doxorubicin hydrochloride in guinea pigs. It is concluded from this experiment that: (a) adriamycin provokes a generalized response; (b) HBO reduces the general toxicity of adriamycin allowing normal weight gain; and (c) the healing rate of adriamycin ulcers is significantly ($P < 0.05$) accelerated. This study suggests that HBO may be a useful adjunctive therapy for a debilitating clinical problem.

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