

The effect of hyperbaric oxygen treatment on pulmonary metastasis in the C3H mouse

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Abstract

The incidence of pulmonary metastases in mice exposed to HBO treatment was investigated in two systems: artificial exogenous metastasis to the lung after i.v. inoculation of tumour cells and the endogenous metastatic spread from spontaneous tumours. Exposure to HBO decreased the lung colony count after inoculation with ELD cells, but had no effect on lung colonisation by C3H mammary tumour cell aggregates. Lung metastasis increased in mice with spontaneous tumours exposed to HBO. This is believed to be a result, not of transient lung damage associated with HBO, but of increased dissemination of cells from the primary tumour.