

[Utility of hyperbaric oxygenation in radiotherapy for malignant brain tumors--a literature review].

[Article in Japanese]

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Source

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Abstract

Over the past 50 years, hyperbaric oxygenation (HBO) therapy has been used in a wide variety of medical conditions; this therapy causes an increase in oxygen tension in blood and tissues. In the treatment of malignant gliomas, HBO therapy is used for the radiosensitization of cells in combination with radiotherapy (RT). Further, HBO therapy is applied for the treatment and prevention of radiation-induced brain necrosis that is the most serious complication observed after radiosurgery. We reviewed the literature to evaluate the manner in which HBO therapy contributes to clinical fields in cases of RT administration for malignant brain tumors.

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