Rescue Therapy in Patient with Glioblastoma Multiforme Combining Chemotherapy, Hyperthermia, Phytotherapy

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Abstract

Glioblastoma multiforme is a pathology that is poorly treatable and tends towards recurrence. If surgically unresectable, at least without macroscopically visible residue, the prognosis is severe. Here is the case of a 60-year-old woman suffering from recurrent glioblastoma who comes to my observation with no therapeutic options and treated with a combination of antiangiogenic drug, RF capacitive hyperthermia and herbal medicine, earns an acceptable quality of life and survival prolongation of six months.

Keywords: Glioblastoma; Chemotherapy; Oncological hyperthermia; Phytotherapy

Introduction

The high grade brain tumors predominantly affect adults and have a high biological aggressiveness. It is difficult to get a remission after the second line drug therapy [1]. In this article carry over the experience with a woman with recurrent glioblastoma deemed eligible only palliative therapy after the second line therapy. A third line set with antiangiogenic drug, capacitive hyperthermia and herbal medicine has achieved a significant improvement in the general condition and prolonged survival of six months.

Case Report

Mrs. M.T. came to my observation for severe neutropenia following administration of fotemustine for relapsed glioblastoma fotemustine [2,3]. The diagnosis had been made a year before and had undergone a first surgery, radiotherapy/adjuvant chemotherapy with temozolomide, a new surgery for recurrence and residue further chemotherapy with fotemustine. For medullary impact in another therapeutic Institute had seen fit to suspend it for palliative therapy. The haematochemical and general condition improvement after strong supportive therapy lead to set a new specific treatment with bevacizumab [4,5] (tri-weekly basis and at a dose of 10 mg/kg), capacitive hyperthermia every other day (55 minutes each therapeutic session) [6-8], curcumin (100 mg four times daily) [9,10], Boswellia serrata (400 mg four times daily) [11]. Control MRI with mdc every 3 months. After the first RMN has verified a reduction from 6 × 5 cm to 2.4 × 2.5 with marked improvement in overall condition (Figure 1). The second MRI showed stability. The patient died a few days after arrival for acute intractable cryptogenic pulmonary oedema.

Discussion

Glioblastoma multiforme is a neoplastic form with scarcity of treatment options besides surgery that unfortunately rarely can be defined as radical. Drugs considered most active are the temozolomide and fotemustine [12]. Antiangiogenic and particularly the bevacizumab appear promising but not used in first line therapy. Interesting in my opinion an opportunity to combine an
antiangiogenic therapy as bevacizumab (presenting good tolerability but a very limited duration of action in time, no impact alone on overall survival, especially in pre-treated Patients [13,14] with a physical therapy which radiofrequency hyperthermia and ancillary therapy with herbal medicines with specific action pro-apoptotic and anti-edema. A single event cannot define anything conclusive but can be interesting inspiration for further study.

References