


disease. Progression-free survival (partial response and stable disease) was 48.2% for patients with GBM, 60% for patients with AA, and 66.6% for patients with AO.

Conclusions

There were no toxicity events. Perillyl alcohol is well tolerated and regression of tumor size in some patients is suggestive of antitumor activity. This work discusses POH intranasal delivery as a potential adjuvant therapeutic strategy for patients with malignant gliomas.

Keywords: Perillyl alcohol; Gliomas; Adjuvant chemotherapy; Phase I/II clinical trials

Abbreviations: AA, anaplastic astrocytoma; AO, anaplastic oligodendroglioma; BBB, blood-brain barrier; CNS, central nervous system; CR, complete response; CT, computed tomography; EGF, epidermal growth factor; ERK, extracellular signal-regulated kinase; GBM, glioblastoma multiforme; KPS, Karnofsky performance status; MAPK, mitogen-activated protein kinase; MG, malignant gliomas; MRI, magnetic resonance imaging; PD, progressive disease; PDGF, platelet-derived growth factor; PFS, progression-free survival; PI3K, phosphoinositide 3-kinase; POH, perillyl alcohol; PR, partial response; SD, stable disease; TGF- β , transforming growth factor β ; ULN, upper limit of normal

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