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Autonomy duration in patients with biopsy-only unresectable IDH wild-type glioblastomas

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Abstract

Purpose: "Biopsy-only" glioblastoma (BO-GB) is an understudied entity associated with a poor outcome for whom quality of life preservation is essential. Our objective was to define and determine the time of autonomy duration in BO-GB and its potential predictive factors.

Methods: Patients diagnosed with IDH wild-type BO-GB and enrolled in a prospective regional cohort from 2014 to 2017 were analyzed for their clinical features, functional status, histo-molecular profile, neuroimaging findings, and treatment details.

Results: 137 patients were included in the present analysis. Median age at inclusion was 66 years old and median KPS was 70. Median time of autonomy duration was 7.7 months (CI95%: 5.6-9.7). In the radiotherapy - temozolomide subgroup, median time of autonomy duration was 9.1 months (CI95%: 8.1-10.3); in the chemotherapy upfront group, median time of autonomy duration was 5.3 months (CI95%: 3.5-7.1). Autonomy duration was correlated to patient age and overall survival but not with initial functional status. Among the 65 patients with KPS < 70 at baseline, 11 patients (16.9%) restored their autonomy under treatment. Autonomy duration was not different between these 11 patients and the patients with baseline KPS $\geq$ 70 ($p = 0.758$).

Conclusion: Autonomy duration may serve as a surrogate endpoint for overall survival for BO-GB patients and may be included in future clinical trials dedicated to this frail population.

Keywords: Autonomy duration; Biopsy-only; Functional status; Glioblastoma; Unresectable.

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