

GLARIUS trial

The GLARIUS trial which investigated the efficacy of [bevacizumab](#) (BEV)/[irinotecan](#) (IRI) as compared to standard [temozolomide](#) (TMZ) in the first-line therapy of [MGMT promoter methylation glioblastoma](#) showed that [progression free survival](#) was significantly prolonged by BEV/IRI while [overall survival](#) was similar in both arms ¹⁾.

A report focusses on [quality of life](#) (QoL) and [Karnofsky performance score](#) (KPS) during the whole course of the disease.

Patients (n=170) received standard [radiotherapy](#) and were randomized (2:1) for BEV/IRI or standard TMZ. At least every three months KPS was determined and QoL was measured using the [EORTC QLQ-C30](#) and [EORTC QLQ-BN20](#) questionnaires. A generalized estimating equation model (GEE) evaluated differences in the course of QoL and KPS over time. Also, the time to first deterioration and the time to postprogression deterioration was analyzed separately.

In all dimensions of QoL and KPS, GEE analyses and time to first deterioration analyses did not detect significant differences between the treatment arms. At progression, 82% of patients receiving second-line therapy in the standard arm received BEV second-line therapy. For the dimensions motor dysfunction and headaches, time to postprogression deterioration was prolonged in the standard arm receiving crossover second-line BEV in the vast majority of patients at the time of evaluation.

GLARIUS did not find indications for a BEV-induced detrimental effect on QoL in first-line therapy of MGMT-nonmethylated GBM patients. Moreover, GLARIUS provided some indirect corroborative data supporting the notion that BEV may have beneficial effects upon QoL in relapsed GBM ²⁾.

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Herrlinger U, Schäfer N, Steinbach JP, Weyerbrock A, Hau P, Goldbrunner R, Friedrich F, Rohde V, Ringel F, Schlegel U, Sabel M, Ronellenfitsch MW, Uhl M, Maciaczyk J, Grau S, Schnell O, Hänel M, Krex D, Vajkoczy P, Gerlach R, Kortmann RD, Mehdorn M, Tüttenberg J, Mayer-Steinacker R, Fietkau R, Brehmer S, Mack F, Stuplich M, Kebir S, Kohnen R, Dunkl E, Leutgeb B, Proescholdt M, Pietsch T, Urbach H, Belka C, Stummer W, Glas M. Bevacizumab Plus Irinotecan Versus Temozolomide in Newly Diagnosed O6-Methylguanine-DNA Methyltransferase Nonmethylated Glioblastoma: The Randomized GLARIUS Trial. *J Clin Oncol*. 2016 May 10;34(14):1611-9. doi: 10.1200/JCO.2015.63.4691. Epub 2016 Mar 14. PubMed PMID: 26976423.

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Schäfer N, Proescholdt M, Steinbach JP, Weyerbrock A, Hau P, Grauer O, Goldbrunner R, Friedrich F, Rohde V, Ringel F, Schlegel U, Sabel M, Ronellenfitsch MW, Uhl M, Grau S, Hänel M, Schnell O, Krex D, Vajkoczy P, Tabatabai G, Mack F, Schaub C, Tzaridis T, Nießen M, Kebir S, Leutgeb B, Urbach H, Belka C, Stummer W, Glas M, Herrlinger U. Quality of life in the GLARIUS trial randomizing bevacizumab/irinotecan versus temozolomide in newly diagnosed, MGMT-nonmethylated glioblastoma. *Neuro Oncol*. 2017 Nov 7. doi: 10.1093/neuonc/nox204. [Epub ahead of print] PubMed PMID: 29121274.

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