SHORT score

In a study, Pierscianek et al. sought to develop a new risk score for preoperative assessment of short-term survival (STS, < 6 months) in GBM patients.

All adult patients that underwent surgical resection of GBM between 2004 and 2014 were included (n=379). Various demographic and clinical parameters, which are available at admission, were assessed. Variables were evaluated in univariate and multivariate analyses. The score was validated in a separate GBM cohort that underwent surgical resection between 2015 and 2018.

The following independent predictors of STS were integrated into a new score: body height (Small, <169 cm, 1point), arterial Hypertension (1point), patients' age (Older: ≤54 years - 0points, 55-74 years - 1point, ≥75 years - 2points), and poor clinical status (Reduced Karnofsky performance status scale: ≤60% - 2points, 70-80% - 1point, ≥90% - 0points). Therefore, the new risk score (SHORT [Term]) ranged from 0 to 6 points and showed a good accuracy of risk estimation for STS in GBM (AUC: 0.715). STS rates were 9.7%, 23.1% and 70% in GBM patients scoring <2 points, 2-4 points and >4 points respectively (P<0.0001). The score was successfully validated (AUC: 0.770).

This study suggests a risk score for the preoperative assessment of STS risk in GBM patients. Still, this risk score needs external validation in larger patients' cohorts from other institutions. Our score might be a tool to facilitate treatment decisions in GBM patients prior to surgery [1].

[1]

Pierscianek D, Ahmadipour Y, Kaier K, Oppong MD, Michel A, Kebir S, Stuschke M, Glas M, Sure U, Jabbarli R. The SHORT score for preoperative assessment of the risk for short-term survival in glioblastoma. World Neurosurg. 2020 Mar 4. pii: S1878-8750(20)30406-X. doi: 10.1016/j.wneu.2020.02.131. [Epub ahead of print] PubMed PMID: 32145416.

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