

# Albumin/globulin ratio (AGR)

Preoperative [systemic immune inflammation index \(SII\)](#) and the [albumin/globulin ratio \(AGR\)](#) have been used as [prognostic markers](#) in many malignancies. A study was conducted to evaluate the clinical significance of the preoperative SII and AGR in [high-grade glioma \(HGG\)](#) patients.

A total of 169 [patients](#) with newly diagnosed [HGG](#) were enrolled in the [study](#). [Overall survival \(OS\)](#) of these patients was estimated by [Kaplan Meier analysis](#). [Univariate](#) and multivariate [Cox regression](#) analyses were performed to examine the relationships between OS and prognostic variables in patients with HGG.

The cut-off values for SII and AGR were  $324.38 \times 10^9/L$  and 1.35, respectively. An inverse correlation was observed between SII and AGR. The Kaplan-Meier survival analyses demonstrated that high SII and low AGR were associated with poor OS of patients with HGG ( $P = 0.002$  and  $P = 0.012$ , respectively). Multivariate analyses revealed that both SII (HR 1.641, 95% CI: 1.071-2.515;  $P = 0.023$ ) and AGR (HR 0.566, 95% CI: 0.335-0.956;  $P = 0.033$ ) were independent predictive indicators of OS of HGG patients.

In conclusion, this study demonstrated that high SII and low AGR values may serve as promising prognostic markers to identify HGG patients with poor prognosis <sup>1)</sup>.

<sup>1)</sup>

Liang R, Li J, Tang X, Liu Y. The prognostic role of preoperative systemic immune-inflammation index and albumin/globulin ratio in patients with newly diagnosed high-grade glioma. Clin Neurol Neurosurg. 2019 Jun 24;184:105397. doi: 10.1016/j.clineuro.2019.105397. [Epub ahead of print] PubMed PMID: 31306893.

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