

# Yinchuan

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A study aimed to evaluate the [predictive value](#) of metabolic parameters in preoperative non-enhancing [peritumoral regions](#) (NEPTRs) for [glioblastoma recurrence](#), using multivoxel hydrogen proton magnetic resonance spectroscopy ([Proton magnetic resonance spectroscopic imaging](#)). Clinical and imaging data from patients with [recurrent glioblastoma](#) were analyzed. Through co-registration of preoperative and post-recurrence MRI, they identified future tumor recurrence regions (FTRRs) and future non-tumor recurrence regions (FNTRRs) within the NEPTRs. Metabolic parameters were recorded separately for each region. [Cox](#) regression analysis was applied to assess the association between metabolic parameters and glioblastoma recurrence. Compared to FNTRRs, FTRRs exhibited a higher [Cho/Cr](#) ratio, higher Cho/[NAA](#) ratio, and lower NAA/Cr ratio. Both Cho/NAA and Cho/Cr ratios were recognized as risk factors in univariate and [multivariate](#) analyses ( $P < 0.05$ ). The Cox regression model indicated that  $\text{Cho/NAA} > 1.99$  and  $\text{Cho/Cr} > 1.73$  are independent risk factors for early glioblastoma recurrence. Based on these cut-off values, patients were stratified into low-risk and high-risk groups, with a statistically significant difference in [recurrence](#) rates between the two groups ( $P < 0.01$ ). The Cho/NAA and Cho/Cr ratios in NEPTRs are independent predictors of future glioblastoma recurrence. Specifically,  $\text{Cho/NAA} > 1.99$  and/or  $\text{Cho/Cr} > 1.73$  in NEPTRs may indicate a higher risk of early [postoperative](#) recurrence at these regions <sup>1)</sup>.

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