

The Prognostic Values of Current Staging Schemes in Temporal Bone Carcinoma: A Real-World Evidence-Based Study

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Abstract : Objectives: The absence of a uniform staging scheme for temporal bone carcinoma (TBC) seriously impedes the improvement of its management strategies. Therefore, this research was aimed to investigate the prognostic values of two currently applying staging schemes, namely, the modified Pittsburgh staging system (MPB) and Stell's T classification (Stell-T) in patients with TBC. Methods: Areal-world single-institution retrospective review of patients diagnosed with TBC between 2008 and 2019 was performed. Baseline characteristics were extracted, and patients were retrospectively staged by both the MPB and Stell-T classifications. Cox regression analyses were conducted to compare the overall survival (OS). Results: A total of 69 consecutive TBC patients were included in this study. Univariate analysis showed that both Stell-T and T- classifications of the modified Pittsburgh staging system (MPB-T) were significant prognostic factors for all TBC patients as well as temporal bone squamous cell carcinoma (TBSCC, n=50) patients ($P < 0.05$). However, only Stell-T was confirmed to be an independent prognostic factor in TBSCC patients ($P = 0.004$). Conclusions: Tumor extensions, quantified by both Stell-T and MPB-T classifications, are significant prognostic factors for TBC patients, especially for TBSCC patients. However, only the Stell-T classification is an independent prognostic factor for TBSCC patients.

Keywords : modified pittsburgh staging system, overall survival, prognostic factor, stell's T- classification, temporal bone carcinoma

Conference Title : ICHNO 2022 : International Conference on Head and Neck Oncology

Conference Location : Barcelona, Spain

Conference Dates : October 20-21, 2022