

学位論文要約
Extended Summary in Lieu of the Full Text of a Doctoral Thesis

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学位論文題目： Immune-modified Glasgow prognostic score: A new prognostic marker for
Thesis Title head and neck cancer.

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Summary of Thesis

Background: The modified Glasgow prognostic score (mGPS) includes C-reactive protein and serum albumin levels and is a useful prognostic tool for malignant tumors. The immune system affects cancer progression and recurrence and treatment response. We hypothesized that increasing the lymphocyte count improves mGPS, and we created a new prognostic marker termed immune-mGPS(imGPS).

Methods: This study included 461 patients with head and neck squamous cell carcinoma (HNSCC). The imGPS was calculated as the conventional mGPS with one additional point for a low lymphocyte count (<1250/ μ L).

Result: Addition of the lymphocyte count to mGPS significantly increased the area under the time-dependent receiver operating characteristic curve for overall and progression-free survivals. The added predictive abilities of this tool were supported by improvement in both net reclassification and integrated discrimination.

Conclusion: imGPS is a more accurate predictor of clinical outcome in patients with HNSCC than mGPS.