

頭頸癌自由皮瓣重建手術的內科併發症之危險因子分析

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Analysis of risk factors for perioperative medical complication following head and neck free flap reconstruction

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Purpose:

The aim of this retrospective study was to analyze the incidence and causes of perioperative non-surgical complications in patients undergoing microvascular free flap reconstruction of the head and neck.

Materials and Methods:

Data were collected from 210 patients who underwent 230 free flap reconstructions for head and neck defects at Mackay Memorial Hospital between August 2017 and August 2019. Patient-related characteristics and the incidence of perioperative complications were recorded retrospectively. Univariate analysis was used to identify relevant risk factors. Furthermore, P-value <0.05 was considered statistically significant.

Results:

Total medical complication rates in our study was 47.1%, and the most common complication were pneumonia(38.1%) and GI bleeding(13.8%). Our study showed that age was strongly associated with perioperative complication($P<0.01$). We also found that ASA score was related to perioperative complication($P<0.01$). Besides, alcohol($P=0.04$) and betel nut($P=0.04$) use as well as history of radiotherapy($P<0.001$) were associated with perioperative complication.

Conclusion:

Attention should be paid to those patients with elder age, alcohol and betel nut use, and history of radiotherapy due to increased risk of perioperative medical complication following head and neck free flap reconstruction. ASA score may be useful for assessing perioperative medical complication risk in patients undergoing microvascular free flap reconstruction of the head and neck. Besides, post-operative complications are also related to weaning ventilator period, ICU stay, and total hospital stay.