

Patient-controlled intravenous analgesia enhanced recovery after surgery

November 15 2021



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Patient-controlled intravenous analgesia (PCIA) is an increasingly used method to control postoperative pain. The authors of a new article in *BIO Integration* aimed to investigate the association between PCIA and

recovery after flap reconstruction in patients with oral squamous cell carcinoma (OSCC).

Patients with OSCC who underwent flap reconstruction between 2016 and 2020 were reviewed (n=850). Baseline characteristics were compared between PCIA and non-PCIA groups. Propensity score matching (PSM) (1:4) was introduced to eliminate these confounding factors (n=505). Univariate analysis was performed to compare matched PCIA and non-PCIA group. Univariate and multivariate analyses were performed before and after PSM to identify factors that influenced length of stay (LOS) in hospital. The differences in characteristics of matched and unmatched groups were also compared.

Before PSM, the differences in flap types, smoking status, and radiotherapy history between PCIA and non-PCIA groups were statistically significant (P

Citation: Patient-controlled intravenous analgesia enhanced recovery after surgery (2021, November 15) retrieved 6 May 2024 from <https://medicalxpress.com/news/2021-11-patient-controlled-intravenous-analgesia-recovery-surgery.html>

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