

ON-Q

ON-Q* is an elastomeric [drug delivery system](#) that delivers local anesthetic directly to the surgical site either through a nerve block or a surgeon-placed catheter, for post-operative pain relief. It is indicated to significantly reduce the use of [opioids](#) and to provide better [pain](#) relief than opioids alone.

Sixty-one patients who underwent ALIF surgery were enrolled. For thirty-one of them, a continuous [local anesthetics](#) infiltration system was used at the abdominal site. They collected [data](#) regarding the [patients' sleep quality](#); satisfaction with pain control after surgery; abilities to perform physical tasks and the additional application of [opioids](#) in the postoperative 48 hours.

The [On-Q](#) system group showed reduced [visual analog scale](#) scores for pain at the surgical site during rest and movement at 0, 12, 24, and 48 hours; and more were satisfied with pain control management at the first postoperative day (7.0 ± 1.2 vs. 6.0 ± 1.4 ; $P = 0.003$) and week (8.1 ± 1.6 vs. 7.0 ± 1.8 ; $P = 0.010$) than the control group. The number of additional patient-controlled analgesia (PCA) bolus and [pethidine](#) injections was lower in the On-Q group (PCA: 3.67 ± 1.35 vs. 4.60 ± 1.88 ; $P = 0.049$ and pethidine: 2.09 ± 1.07 vs. 2.73 ± 1.38 ; $P = 0.032$). Patients who used the On-Q system performed more diverse activity and achieved earlier [ambulation](#) than those in the control group.

Continuous [wound infiltration](#) with [ropivacaine](#) using an [On-Q](#) system may be effective for controlling [postoperative pain](#) after [ALIF](#) surgery ¹⁾.

1)

Lee SM, Yun DJ, Lee SH, Lee HC, Joeng KH. Continuous [wound infiltration](#) of [ropivacaine](#) for reducing of [postoperative pain](#) after anterior [lumbar fusion](#) surgery: a clinical retrospective comparative study. Korean J Pain. 2021 Apr 1;34(2):193-200. doi: 10.3344/kjp.2021.34.2.193. PMID: 33785671.

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