

## The Effect of Intrathecal Adenosine in Control of Neuropathic Pain after Lumbar Discectomy in One Level

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**Abstract :** Adenosine has an analgesic and anti-inflammatory role and its injections are used for peri-operative pain management. We want to study efficacy of intrathecal injection of adenosine for post operative radicular pain after lumbar discectomy. 40 patients with unilevel lumbar discectomy who had radicular lower limb pain were treated by 1000 micrograms of intrathecal injection of adenosine. Pain severity, pain killer consumption per day and sleep quality were assessed during a 3 months follow up period. Radicular pain severity was significantly reduced in 3 month follow-up period in comparison to the baseline ( $F=19760$ ,  $DF=2.53$ ,  $p\text{-value}<0.001$ ). Further painkiller medication consumption rate in average during 3 month follow-up period after injection was significantly lower in comparison to baseline ( $F= 19.244$ ,  $df= 1.98$ ,  $p\text{-value}<0.001$ ). This study suggests that intrathecal injection of adenosine is a safe method in order to reduce postoperative pain after lumbar discectomy.

**Keywords :** adenosine, intrathecal injection, discectomy, neuropathic pain

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