

PENGARUH POSISI *SPINE PRONE* TERHADAP PERUBAHAN SATURASI OKSIGEN *INTRA OPERATIF* PADA PASIEN *LAMINECTOMY*

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ABSTRAK

Latar Belakang: Tindakan *Laminectomy* umumnya dilakukan dengan anestesi umum dan posisi *spine prone* untuk memberikan akses optimal pada tulang belakang. Namun, posisi tersebut dapat menyebabkan perubahan fisiologis, terutama pada sistem respirasi, yang berpotensi memengaruhi saturasi oksigen selama periode *intraoperatif*. Oleh karena itu, pemantauan saturasi oksigen menjadi penting untuk mencegah komplikasi yang dapat terjadi selama tindakan pembedahan.

Tujuan: Diketahui pengaruh posisi *spine prone* terhadap perubahan saturasi oksigen *intraoperatif* pada pasien *laminectomy*.

Metode: Penelitian ini merupakan penelitian kuantitatif dengan desain *pre-experimental one group pretest-posttest*. Teknik sampling yang digunakan adalah *purposive sampling* dengan sampel sebanyak 35 pasien. Pengumpulan data dilakukan selama tindakan *Laminectomy* dan hasilnya dianalisis menggunakan uji *Wilcoxon SignedRank Test*.

Hasil: Hasil penelitian menunjukkan bahwa saturasi oksigen pasien sebelum dilakukan posisi *spine prone* berada dalam kondisi stabil. Setelah dilakukan perubahan posisi, terjadi perubahan nilai saturasi oksigen selama periode *intraoperatif*. Perubahan ini mencerminkan adanya respons fisiologis tubuh terhadap posisi *spine prone* yang memengaruhi mekanisme ventilasi dan perfusi paru. Hasil uji statistik *Wilcoxon SignedRank Test* didapatkan nilai *p-value* sebesar 0,000 ($p < 0,05$) yang menunjukkan bahwa adanya pengaruh posisi *spine prone* terhadap perubahan saturasi oksigen.

Kesimpulan: Posisi *spine prone* berpengaruh terhadap perubahan saturasi oksigen *intraoperatif* pada pasien *laminectomy* dengan anestesi umum di RSUP dr. Soeradji Tirtonegoro Klaten.

Kata Kunci: *spine prone, saturasi oksigen, anestesi umum, laminectomy*

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THE EFFECT OF SPINE PRONE POSITION ON INTRAOPERATIVE OXYGEN SATURATION CHANGES IN LAMINECTOMY PATIENTS

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ABSTRAK

Background: *Laminectomy procedures are generally performed under general anesthesia and in the spine prone position to provide optimal access to the vertebral column. However, this position may cause physiological changes, particularly in the respiratory system, which can potentially affect oxygen saturation during the intraoperative period. Therefore, monitoring oxygen saturation is important to prevent complications that may occur during surgical procedures.*

Objective: *To determine the effect of the spine prone position on changes in intraoperative oxygen saturation in laminectomy patients.*

Methods: *This study was a quantitative study using a pre-experimental one-group pretest-posttest design. The sampling technique used was purposive sampling with a total sample of 35 patients. Data collection was carried out during laminectomy procedures, and the results were analyzed using the Wilcoxon Signed Rank Test.*

Results: *The results showed that patients' oxygen saturation before being positioned in the spine prone position was in a stable condition. After positioning changes were performed, changes in oxygen saturation values occurred during the intraoperative period. These changes reflected the body's physiological response to the spine prone position, affecting pulmonary ventilation and perfusion mechanisms. The Wilcoxon Signed Rank Test showed a p-value of 0.000 ($p < 0.05$), indicating that the spine prone position had a significant effect on changes in oxygen saturation.*

Conclusion: *The spine prone position affects intraoperative oxygen saturation changes in laminectomy patients under general anesthesia at RSUP dr. Soeradji Tirtonegoro Klaten.*

Keywords: *spine prone, oxygen saturation, general anesthesia, laminectomy*

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