

# PENGARUH PENGGUNAAN *B-SPINE* TERHADAP VISUALISASI GLOTIS PADA PASIEN GENERAL ANESTESI *ENDOTRACHEAL TUBE*

Rara Devanti<sup>1</sup>, Harmilah<sup>2</sup>, Yustiana Olfah<sup>3</sup>  
Jurusan Keperawatan Poltekkes Kemenkes Yogyakarta  
JL.Tatabumi No. 3 Banyuraden, Gamping, Sleman  
Email: [raradv25@gmail.com](mailto:raradv25@gmail.com)

## ABSTRACT

**Latar Belakang:** Penatalaksanaan jalan napas merupakan aspek penting dalam anestesi, khususnya pada tindakan intubasi endotracheal tube. Visualisasi glotis yang optimal sangat menentukan keberhasilan intubasi. Salah satu faktor yang mempengaruhi visualisasi glotis adalah posisi kepala pasien. Penggunaan alat bantu seperti *B-spine* diharapkan dapat membantu mempertahankan posisi kepala dalam keadaan hiperekstensi sehingga meningkatkan kualitas visualisasi glotis.

**Tujuan:** Mengetahui pengaruh penggunaan *B-spine* terhadap visualisasi glotis pada pasien dengan general anestesi endotracheal tube di Instalasi Bedah Sentral RSUD dr. Adhyatma, MPH

**Metode:** Penelitian kuantitatif dengan desain quasi experimental (posttest only with control group). Sampel 66 responden dibagi menjadi kelompok intervensi (*B-spine*) dan kontrol (posisi supinasi dengan ekstensi kepala sederhana). Data dikumpulkan melalui observasi berdasarkan klasifikasi Cormack-Lehane dan dianalisis menggunakan uji Chi-square.

**Hasil:** Hasil penelitian menunjukkan bahwa visualisasi glotis terlihat lebih banyak pada kelompok intervensi (93,9%) dibandingkan kelompok kontrol, yang didominasi glotis tidak terlihat (60,6%). Uji Chi-square menunjukkan  $p < 0,001$ , sehingga terdapat perbedaan yang signifikan. Nilai OR sebesar 23,846 menunjukkan bahwa penggunaan *B-spine* meningkatkan peluang visualisasi glotis optimal sekitar 23 kali dibandingkan tanpa *B-spine*.

**Kesimpulan:** Penggunaan *B-spine* berpengaruh signifikan dalam meningkatkan visualisasi glotis pada pasien dengan general anestesi endotracheal tube.

**Kata kunci:** Anestesi umum, *B-spine*, intubasi endotracheal, visualisasi glotis.

**THE EFFECT OF B-SPINE USE ON GLOTTIC  
VISUALIZATION IN PATIENTS UNDERGOING GENERAL  
ANESTHESIA WITH ENDOTRACHEAL TUBE**

Rara Devanti<sup>1</sup>, Harmilah<sup>2</sup>, Yustiana Olfa<sup>3</sup>

*Nursing Department, Health Polytechnic of the Ministry of Health in Yogyakarta*

Tatabumi Street No. 3 Banyuraden, Gamping, Sleman

Email: [raradv25@gmail.com](mailto:raradv25@gmail.com)

**ABSTRACT**

**Background:** Airway management is a crucial aspect of anesthesia, particularly in endotracheal tube intubation. Optimal glottic visualization plays an important role in determining the success of intubation. One of the factors affecting glottic visualization is the patient's head position. The use of assistive devices such as B-spine is expected to help maintain the head in a hyperextension position, thereby improving the quality of glottic visualization.

**Objective:** To determine the effect of B-spine use on glotic visualization in patients undergoing general anesthesia with endotracheal tube at the Central Operating Theatre of RSUD dr. Adhyatma, MPH.

**Metode:** This quantitative study used a quasi-experimental design (posttest only with a control group). A sample of 66 respondents was divided into an intervention group (B-spine) and a control group (supine position with simple head extension). Data were collected through observation based on the Cormack-Lehane classification and analyzed using the Chi-square test.

**Results:** The results showed that glotic visualization was more frequently visible in the intervention group (93.9%) compared to the control group, which was dominated by non-visible glotis (60.6%). The Chi-square test showed  $p < 0.001$ , indicating a significant difference between the two groups. The odds ratio (OR) value of 23.846 indicated that the use of B-spine increased the likelihood of optimal glotic visualization by approximately 23 times compared to not using B-spine.

**Conclusion:** The use of B-spine has a significant effect on improving glotic visualization in patients undergoing general anesthesia with endotracheal tube.

**Keywords:** B-spine, endotracheal intubation, general anesthesia, glottic visualization.