

FACTORS RELATED TO ACHIEVING BROMAGE SCORE IN PATIENTS  
AFTER SPINAL ANESTHESIA AT PKU MUHAMMADIYAH GAMPING  
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**ABSTRACT**

**Background :** Patient monitoring after spinal anesthesia was measured inferior limb motor movements with Bromage Score instruments. Because there are no indicators of motor recovery factors for inferior externalities ini patients with spinal anesthesia : type of anesthetic drug dose, drug distributin, vasoconstriction effect, intra-abdominal pressure ASA physical status, age, type of melamine, body weight and surgical position.

**Purpose :** Know the factors associated with achieving *Bromage Score* in patients after spinal anesthesia at the PKU Muhammadiyah Gamping Hospital of Yogyakarta.

**Method :** Cross sectional observational study with quota sampling technique, a sampel of 46 respondents ASA I and ASA II. Data analysis using Chi Square statistical tests or Fisher's Exact Test.

**The Results :** There are four factors related to the *Bromage Score*, namely the physical status of ASA with  $pvalue = 0.043$  while the value of  $r = 0.375$  (0.21-0.40 closeness of the weak relationship), age with  $pvalue = 0.043$  while  $r$  value = 0.375 (0.21-0.40 closeness of relationship is weak), body teight with  $pvalue = 0.027$  while  $r$  value= 0.375 (0.21-0.40 closeness of a weak relationship), for unrelated factors are gender with  $pvalue = 0.148$  and  $r$  value= 0.257 (0.21-0.40 closeness of a weak relationship).

**Conclusion :** There is a relationship between ASA physical status factors, age, weight and surgical position with the achievement of *Bromage Score* in patients after spinal anesthesia at the PKU Muhammadiyah Gamping Hospital of Yogyakarta.

**Keywords :** Spinal anesthesia, inferior extremity motor movements. *Bromage Score* factors.

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FAKTOR-FAKTOR YANG BERHUBUNGAN DENGAN PENCAPAIAN  
*BROMAGE SCORE* PADA PASIEN PASCA ANESTESI SPINAL DI RUMAH  
SAKIT PKU MUHAMMADIYAH GAMPING YOGYAKARTA

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**ABSTRAK**

**Latar Belakang :** Pemantauan pasien pasca anestesi spinal dilakukan pemantauan gerak motorik ekstermitas *inferior* dengan instrument *Bromage Score*. Karena belum adanya indikator faktor pemulihan gerak motorik ekstermitas *inferior* pasien pasca spinal anestesi : jenis dosis obat anestesi, penyebaran obat, efek vasokonstriksi, tekanan intraabdomen, status fisik ASA, usia, jenis kelamin, berat badan, dan posisi pembedahan.

**Tujuan :** Mengetahui faktor-faktor yang berhubungan dengan pencapaian *Bromage Score* pada pasien pasca anestesi spinal di Rumah Sakit PKU Muhammadiyah Gamping Yogyakarta.

**Metode :** Penelitian observasional *cross-sectional* dengan teknik kuota *sampling*, sampel 46 responden ASA I dan ASA II. Analisis data menggunakan uji statistik *Chi Square* atau *Fisher's Exact Test* .

**Hasil :** Adanya empat faktor yang berhubungan dengan *Bromage Score* yaitu status fisik ASA dengan nilai *pvalue*= 0.043 sedangkan nilai  $r= 0.375$  (0.21-0.40 keeratan hubungan lemah), usia nilai *pvalue*= 0.043 sedangkan nilai  $r= 0.375$  (0.21-0.40 keeratan hubungan lemah), berat badan nilai *pvalue*= 0.027 sedangkan nilai  $r= 0.421$  (0.41-0.70 keeratan hubungan kuat) dan posisi pembedahan nilai *pvalue*= 0.043 sedangkan nilai  $r= 0.375$  (0.21-0.40 keeratan hubungan lemah). Sedangkan yang tidak berhubungan yaitu faktor jenis kelamin dengan nilai *pvalue*= 0.148 sedangkan nilai  $r= 0.257$  (0.21-0.40 keeratan hubungan lemah).

**Kesimpulan :** Terdapat hubungan antara faktor status fisik ASA, usia, berat badan dan posisi pembedahan dengan pencapaian *Bromage Score* pada pasien pasca anestesi spinal di Rumah Sakit PKU Muhammadiyah Gamping Yogyakarta.

**Kata Kunci :** Anestesi spinal, gerak motorik ekstermitas *inferior*, *Bromage Score*, faktor-faktor *Bromage Score* .

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