CORRELATIONS OF BLOCK HEIGHT WITH HEMODYNAMIC INTRA SPINAL ANESTHESIA IN MUHAMMADIYAH YOGYAKARTA HOSPITAL

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ABSTRACT

Background: Regional anesthetics Sub Arachnoid Block (SAB) produces a certain block height which causes hemodynamic instability. This happens because vasodilation of blood vessels and sympathetic nerves are blocked so that it dominates the performance of the parasympathetic nerves.

Objective: To determine the relationship of block height with intra-spinal hemodynamic anesthesia at surgery room in PKU Muhammadiyah Yogyakarta Hospital

Research Methods: This research is a non-experimental quantitative research with analytic correlational research design and cross sectional survey research design. The study sample consisted of 50 respondents spinal anesthesia patients. sampling with consecutive sampling, the statistical test used is the chi square test.

Research Results: The height of the spinal anesthesia respondent block majority of respondents experienced surgery and skin block height (block under Thoracalis 7). The majority of intra-spinal anesthesia hemodynamic respondents had stable blood pressure, pulse, and MAP. There is a significant relationship between block height (surgery, skin / block under thoracalis 7 and high spinal block / above thoracalis 6) with intra-spinal anesthesia blood pressure. There is a significant relationship between the height of the block height block (surgery, skin / block below thoracalis 7 and high spinal block / above thoracalis 6) with intra-spinal anesthesia pulse. There is a significant relationship between the height of the block height block (surgery, skin / block below thoracalis 7 and high spinal block / above thoracalis 6) with intra spinal anesthesia MAP.

Conclusion: There is a corelations between the height of the block with hemodynamic intra spinal anesthesia in the IBS RS PKU Muhammadiyah Yogyakarta.

Keywords: Block anesthesia, Blood pressure, Heart rate, *Mean Artery Pressure*

HUBUNGAN KETINGGIAN BLOK DENGAN HEMODINAMIK INTRA SPINAL ANESTESI DI RUMAH SAKIT MUHAMMADIYAH YOGYAKARTA

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ABSTRAK

Latar Belakang: Anestesi regional *Sub Arachnoid Block* (*SAB*) menghasilkan ketinggian blok tertentu yang menyebabkan ketidakstabilan hemodinamik. Hal ini terjadi karena vasodilatasi pembuluh darah dan saraf simpatis yang terblok sehingga mendominasi kinerja dari saraf parasimpatis.

Tujuan Penelitian: Mengetahui hubungan ketinggian blok dengan hemodinamik intra spinal anestesi di IBS RS PKU Muhammadiyah Yogyakarta.

Metode Penelitian: Penelitian ini merupakan penelitian kuantitatif non eksperimental dengan rancangan penelitian korelasional analitik dan desain penelitian *survey cross sectional*. Sampel penelitian berjumlah 50 responden pasien spinal anestesi. pengambilan sampel dengan konsekutif sampling, uji statistic yang digunakan adalah uji *chi square.*

Hasil Penelitian: Ketinggian blok responden spinal anestesi mayoritas responden mengalami blok ketinggian pembedahan dan kulit (blok dibawah *thoracalis* 7). Hemodinamik responden intra spinal anestesi mayoritas memiliki tekanan darah, nadi, dan MAP stabil. Terdapat hubungan yang bermakna antara ketinggian blok (pembedahan, kulit/blok dibawah *thoracalis* 7 dan blok *high* spinal/diatas *thoracalis 6*) dengan tekanan darah intra spinal anestesi. Terdapat hubungan yang bermakna antara ketinggian blok ketinggian blok (pembedahan, kulit/blok dibawah *thoracalis* 7 dan blok *high* spinal/diatas *thoracalis 6*) dengan nadi intra spinal anestesi. Terdapat hubungan yang bermakna antara ketinggian blok ketinggian blok (pembedahan, kulit/blok dibawah *thoracalis* 7 dan blok *high* spinal/diatas *thoracalis 6*) dengan MAP intra spinal anestesi.

Kesimpulan: Terdapat hubungan antara ketinggian blok dengan hemodinamik intra spinal anestesi di IBS RS PKU Muhammadiyah Yogyakarta.

Kata Kunci: Blok anestesi, Tekanan darah, nadi, *Mean Artery Pressure*

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