

**CORRELATION OF THE BODY MASS INDEX WITH THE POST
OPERATIVE NAUSEA AND VOMITING EVENTS ON POST GENERAL
ANESTHESIA PATIENTS IN PKU MUHAMMADIYAH YOGYAKARTA
HOSPITAL**

Emi Saputri Handayani¹, Ana Ratnawati², Abdul Majid³

¹²³ Department of Nursing Poltekkes Kemenkes Yogyakarta

Jl. Tatabumi No.3 Banyuraden, Gamping, Sleman

Email : emisaputri21@yahoo.co.id, anaratna@gmail.com, habibiefajar@yahoo.co.id

ABSTRACT

Background: Postoperative nausea and vomiting are one of the most commonly reported side effects of anesthesia. The incidence of nausea and vomiting in obese patients is higher compared to thin patients because of the large fat reserves which causes the spending of anesthetic drugs to be slower. The PONV incident needs to get serious treatment because it can impact to longer stay in hospital so it harm a lot of parties.

Objective: To determine the correlation of body mass index with the case of postoperative nausea and vomiting in post-general anesthesia patients at PKU Muhammadiyah Hospital Yogyakarta.

Research Method: Observational analytic by sectional cross design. Sampling by consecutive sampling with a large sample of 45 respondents. Statistical tests using chi square with a 95% confidence level.

Results: Shows the incidence of PONV 13 (28.9%) and not PONV 32 (71.1%). Most PONV events were obese body mass index 8 (17.8%), and patients who did not experience PONV were mostly with normal body mass index 23 (51.1%). Chi square statistical test results with p value 0.030 ($p < 0.05$).

Conclusion: There is a significant correlation between body mass index with the incidence of postoperative nausea and vomiting in post-general anesthesia patients at PKU Muhammadiyah Hospital in Yogyakarta with the closeness of low-level correlation characterized by contingency coefficients 0.367.

Keywords: Body Mass Index, Post Operative Nausea and Vomiting

¹ Student of Nursing Sarjana Terapan in the Ministry of Health Poltekkes Yogyakarta

² Lecture of Nursing in the Ministry of Health Poltekkes Yogyakarta

³ Lecture of Nursing in the Ministry of Health Poltekkes Yogyakarta

**HUBUNGAN INDEKS MASSA TUBUH DENGAN KEJADIAN POST
OPERATIVE NAUSEA AND VOMITING PADA PASIEN PASCA
GENERAL ANESTESI DI RS PKU MUHAMMADIYAH YOGYAKARTA**

Emi Saputri Handayani¹, Ana Ratnawati², Abdul Majid³

^{1,2,3} Jurusan Keperawatan Poltekkes Kemenkes Yogyakarta

Jl. Tatabumi No.3 Banyuraden, Gamping, Sleman

Email : emisaputri21@yahoo.co.id, anaratna@gmail.com, habibiefajar@yahoo.co.id

ABSTRAK

Latar Belakang : Mual muntah pasca operasi adalah salah satu efek samping yang paling umum dilaporkan anestesi. Angka kejadian mual muntah pada pasien obesitas lebih tinggi dibandingkan dengan penderita kurus karena cadangan lemak yang banyak menyebabkan pengeluaran obat-obatan anastetik menjadi lebih lambat. Kejadian PONV perlu mendapatkan penanganan yang serius karena dapat berdampak pada masa rawat inap yang memanjang sehingga dapat merugikan banyak pihak.

Tujuan Penelitian : Mengetahui hubungan indeks massa tubuh dengan kejadian *post operative nausea and vomiting* pada pasien pasca general anestesi di RS PKU Muhammadiyah Yogyakarta.

Metode Penelitian : Observasional analitik dengan desain *cross sectional*. Pengambilan sampel secara *consecutive sampling* dengan besar sampel 45 responden. Uji statistik menggunakan *chi square* dengan tingkat kepercayaan 95%.

Hasil Penelitian : Menunjukkan kejadian PONV 13 (28,9%) dan tidak PONV 32 (71,1%). Kejadian PONV sebagian besar dengan indeks massa tubuh obesitas 8 (17,8%), dan pasien yang tidak mengalami kejadian PONV sebagian besar dengan indeks massa tubuh normal 23 (51,1%). Hasil uji statistik *chi square* dengan *p Value* 0,030 (*p* < 0,05).

Kesimpulan : Terdapat hubungan yang signifikan antara indeks massa tubuh dengan kejadian *post operative nausea and vomiting* pada pasien pasca general anestesi di RS PKU Muhammadiyah Yogyakarta dengan keeratan hubungan tingkat rendah ditandai dengan *contingency coefficients* 0,367.

Kata Kunci : Indeks Massa Tubuh, *Post Operative Nausea and Vomiting*

¹ Mahasiswa Sarjana Terapan Keperawatan Poltekkes Kemenkes Yogyakarta

² Dosen Keperawatan Poltekkes Kemenkes Yogyakarta

³ Dosen Keperawatan Poltekkes Kemenkes Yogyakarta