

FACTORS RELATED OF MUCUS HIPERSECRESION EVENTS IN INTRA GENERAL ANESTHESI PATIENTS IN CILACAP HOSPITAL

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ABSTRACT

Background : The use of anesthetics can suppress the mucosilier function of the respiratory tract & weaken the body's physiological reflexes in cleaning mucus, causing mucus accumulation in the airway. Mucus produced in large quantities results in hypersecretion, if left untreated it can cause hypoxia. The occurrence of mucous hypersecretion is associated with a variety of factors, including age, smoking history, & history of respiratory tract disease in patients under general anesthesia.

Purpose : To find out the factors associated with the incidence of mucous hypersecretion in intra-general anesthesia patients in Cilacap Hospital

Research Methods : Research on cross-sectional observational analytic design. The study was conducted in March 2019. A total of 37 respondents were enrolled in general anesthesia with the installation of endotracheal tube (ETT) & laryngeal mask airway (LMA). Analysis of chi square data and looking for dominant factors using logistic regression.

Results : The results of the chi square test for the incidence of mucous hypersecretion against age $p = 0.242$, smoking history $p = 0.035$, history of respiratory tract disease $p = 0.014$. Logistic regression test results showed that the history of respiratory tract disease was most dominantly associated with the incidence of mucous hypersecretion with a value of $p = 0.047$ & $OR = 10,934$, which means that a history of respiratory tract disease has a potential of 10,934 times causing mucous hypersecretion.

Conclusion : Smoking history & history of respiratory disease are associated with the incidence of mucous hypersecretion in intra-general anesthesia patients

Keywords : factors, mucous hypersecretion, general anesthesia

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FAKTOR-FAKTOR YANG BERHUBUNGAN DENGAN KEJADIAN HIPERSEKRESI MUKUS PADA PASIEN INTRA GENERAL ANESTESI DI RSUD CILACAP

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ABSTRAK

Latar Belakang : Penggunaan obat anestesi dapat menekan fungsi mukosilier saluran pernapasan & melemahkan reflek fisiologis tubuh dalam membersihkan mukus sehingga menyebabkan terjadinya penimbunan mukus di jalan nafas. Mukus yang dihasilkan dalam jumlah banyak mengakibatkan hipersekresi, apabila tidak ditangani bisa menyebabkan hipoksia. Terjadinya hipersekresi mukus dihubungkan dengan berbagai faktor, antara lain usia, riwayat merokok, & riwayat penyakit saluran pernafasan pada pasien yang dilakukan anestesi umum.

Tujuan Penelitian : Mengetahui faktor-faktor yang berhubungan dengan kejadian hipersekresi mukus pada pasien *intra general* anestesi di RSUD Cilacap

Metode Penelitian : Penelitian observasional analitik desain *cross sectional*. Penelitian dilaksanakan bulan Maret 2019. Jumlah sampel 37 responden yang dilakukan anestesi umum dengan pemasangan *endotracheal tube* (ETT) & *laryngeal mask airway* (LMA). Analisis data *chi square* dan mencari faktor dominan menggunakan *regresi logistic*.

Hasil Penelitian : Hasil uji *chi square* kejadian hipersekresi mukus terhadap usia $p = 0,242$, riwayat merokok $p = 0,035$, riwayat penyakit saluran pernafasan $p = 0,014$. Hasil uji *regresi logistic* menunjukkan faktor riwayat penyakit saluran pernafasan paling dominan berhubungan dengan kejadian hipersekresi mukus dengan nilai $p = 0,047$ & $OR = 10,934$ artinya adanya riwayat penyakit saluran pernafasan memiliki potensi 10,934 kali menyebabkan terjadinya hipersekresi mukus

Kesimpulan : Faktor riwayat merokok & riwayat penyakit saluran pernafasan berhubungan dengan kejadian hipersekresi mukus pada pasien *intra general* anestesi

Kata Kunci : faktor-faktor, hipersekresi mukus, *general* anestesi

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