

Perbandingan efek akut rokok kretek dengan rokok putih terhadap fungsi ventrikel kanan = The comparison of acute effects of clove cigarette with the white cigarette smoking on right ventricle function

Victor Florencia Ferdinand Joseph, author

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Abstrak

[Merokok merupakan faktor risiko penyakit jantung koroner yang paling dapat dimodifikasi Di Indonesia 88 konsumsi rokok adalah kretek. Sejauh ini belum ada studi mengenai rokok kretek terhadap fungsi ventrikel kanan Penelitian ini bertujuan melihat pengaruh akut rokok kretek dengan rokok putih terhadap fungsi ventrikel kanan menggunakan ekokardiografi pada partisipan usia muda yang sehat Metode Uji eksperimental cross over dilakukan di Departemen Kardiologi dan Kedokteran Vaskular Fakultas Kedokteran Universitas Indonesia Pusat Jantung Nasional Harapan Kita pada Maret April 2013 Lima puluh partisipan diikutsertakan dan diminta untuk tidak merokok minimal 2 jam sebelum penelitian Pemeriksaan ekokardiografi dilakukan sebelum merokok segera dan satu jam setelah merokok Partisipan datang kembali keesokan harinya untuk merokok jenis rokok lain Hasil Nilai E A menurun segera sesudah merokok rokok putih dan rokok kretek kemudian naik mendekati normal satu jam setelah merokok Nilai DT memanjang segera sesudah merokok dan kembali mendekati normal sejam sesudahnya Dilakukan pengujian secara statistik dengan membandingkan pengaruh rokok kretek dan rokok putih segera dan satu jam sesudah merokok terhadap fungsi ventrikel kanan dan tidak diperoleh nilai yang bermakna secara signifikan Kesimpulan Kedua jenis rokok menyebabkan perubahan akut pada parameter fungsi ventrikel kanan Penggunaan rokok kretek dibandingkan rokok putih tidak menyebabkan perubahan fungsi diastolik yang lebih bermakna pada fungsi ventrikel kanan

.....Smoking is one of the most modifiable risk factor in coronary heart disease In Indonesia 88 of cigarette smoked is clove cigarette To the best of our knowledge there were no studies published regarding this issue on right ventricular diastolic function This study is to describe the acute effects of clove cigarette smoking on right ventricular function in young healthy participants and comparing the effects caused by clove cigarette to white cigarette Methods This is an experimental study carried out in Department of Cardiology and Vascular Medicine Universitas Indonesia National Cardiovascular Center Harapan Kita in March April 2013 Fifty participants were asked not to smoke for at least 2 hours prior to study Echocardiography study was performed to each participants before right after and 60 minutes after smoking Participants were then asked to come back on the next day to perform the same procedure with another kind of cigarette Result After smoking there was a decreased E A from baseline and increase 60 minutes after smoking Deceleration time was longer right after smoking and got short 60 minutes after smoking in white and clove cigarette smoking Statistic calculation was made with comparing the clove with white cigarette to right ventricular function right and one hour after smoking and found there is no significant value was found Conclusion Clove and conventional cigarette smoking both have acute effects on right ventricular diastolic function where clove cigarette have no more significant diastolic function change of right ventricular compare to the white one , Smoking is one of the most modifiable risk factor in coronary heart disease In Indonesia 88 of cigarette smoked is clove cigarette To the best of our knowledge there were no studies published regarding this issue on right ventricular diastolic function This study is to describe the

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