The effect of medication intake on perforation rate in patients with colonic diverticulosis – A retrospective assessment

Aneta Turza*, Justyna Tęczar, Rafał Król, Anna Gadamer

Students’ Scientific Group at 2nd Department of General Surgery, Jagiellonian University Medical College, Poland
E-mail address: aturza@onet.pl (A. Turza).

Aim: The aim was to study the effect of drug intake on the frequency of perforation among patients with colonic diverticulosis.

Introduction: Diverticulosis is a common condition which incidence increases with age. One of the most severe complications with a high risk of late sequel and mortality is perforation of colonic diverticula. According to the current studies the use of some medications may affect the risk of perforation due to its influence on the intracolonic pressure and mucosal barrier function.

Methods: A retrospective review of 294 patients (mean age 68.6) with verified colonic diverticulosis was done. Included patients were admitted to 2nd Department of General Surgery JUMC during 2006–2016. Study enrolled 206 (70.1%) women and 88 (29.9%) men. Among investigated group 36 (12.2%) patients developed perforation.

The research regarded medications including NSAIDs, corticosteroids, calcium-channel blockers, statins, opioids, aspirin, anticoagulants and antiplatelet drugs. In addition, the data concerning comorbidity and the severity of the diverticulitis was collected.

Results: In the analysis the group of patients with perforation and the group with non-perforated diverticulosis were compared. Higher rates of the use of NSAIDs (13.89% vs. 3.88%; OR = 4; p = 0.01; 95% CI = 1.28–12.46), opioids (11.11% vs. 1.55%; OR = 7.94; p < 0.001; 95% CI = 1.89–33.3) and corticosteroids (22.22% vs. 8.14%; OR = 3.22; p = 0.01; 95% CI = 1.31–7.96) were observed among the patients with perforation. The results revealed an inverse relation concerning the use of statins (5.56% vs. 22.09%; OR = 0.21; p = 0.02; 95% CI = 0.05–0.89). Similar results were found in the review of available literature.

Conclusion: Medications used by patients with colonic diverticulosis affect the incidence of perforation. The administration of NSAIDs, corticosteroids and opioids is related to an increased rate of diverticular perforation. Conversely, statins may contribute to the decrease in the frequency of perforation. We can conclude that it is important to carefully administer drugs to patients with colonic diverticulosis.

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De novo atrial fibrillation following aortic valve replacement surgery is associated with decreased creatinine clearance and increased C-reactive protein levels

Mariana Fragão-Marques¹, Francisca Saraiva¹, João Oliveira¹, André P. Lourenço¹, Adelino Leite-Moreira¹, Inês Falcão-Pires¹

¹ Departamento de Cirurgia e Fisiologia da Faculdade de Medicina da Universidade do Porto, Alameda Professor Hernâni Monteiro, Porto, Portugal

Aim: The aim of our study was to establish predictors of unplanned early reoperations after meningoima removal.

Introduction: Complications after neurosurgical procedures which lead to reoperation are associated with poor treatment outcome and costs. The knowledge of risk factors for complications might allow to implement specific preventive measures. However those factor are still poorly defined, especially in terms of benign brain tumours.

Methods: We retrospectively analysed 177 patients, with histologically confirmed meningiomas, hospitalized between 2014 and 2016 who underwent craniotomy. From medical records