Surgery Paralell Oral Session
Friday, September 15th, 14h00

PS130
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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PS050
Predictors of early reoperation after meningioma removal
Paulina Donicz*, Kornelia Kliś, Małgorzata Gackowska
Student Scientific Group at Department of Neurosurgery and Neurotraumatology, Jagiellonian University Medical College, Poland
E-mail address: paulina.donicz@gmail.com (P. Donicz).

**Aim:** The aim of our study was to establish predictors of unplanned early reoperations after meningioma 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
Prevalence of foramen arcuale and its clinical significance: A meta-analysis of 55,985 subjects

Przemysław A. Pękala 1,2, Brandon Michael Henry 1,2, Jakub R. Pękala 1,2,∗, Wan Chin Hsieh 1,2, Jerzy A. Walocha 1,2, R. Shane Tubbs 3, Krzysztof A. Tomaszewski 1,2

1 International Evidence-Based Anatomy Working Group, Krakow, Poland
2 The Brain and Spine Lab, Department of Anatomy, Jagiellonian University Medical College, Krakow, Poland
3 First Faculty of Medicine, Charles University, Prague, Czech Republic
4 Faculty of Medicine and Surgery, University of Cagliari, Sardinia, Italy
5 Seattle Science Foundation, Seattle, Washington, USA

E-mail address: jr.pekala@gmail.com
(J.R. Pękala).

Aim: The aim of this study was to deliver the most complex study on the prevalence of the FA and its clinical significance.

Introduction: Foramen arcuale (FA) is an osseous prominence formed in place of a sulcus for the vertebral artery on the posterior arch of the atlas. The presence of an FA can make a threat during neurosurgery by giving a false notion of a wider posterior arch when viewed dorsally during C1 lateral mass screw insertion.

Methods: An comprehensive search of the major electronic databases was performed in order to find and identify all studies which reported relevant data on the FA. No date or language restrictions were applied. Data on the prevalence, type (complete and incomplete), side, gender, laterality, and morphometrics of the FA were extracted and pooled into a meta-analysis.

Results: A total of 127 studies (n = 55,985 subjects) were included into the quantitative analysis. The overall pooled prevalence of a complete FA was 9.1% (95% CI: 8.2–10.1), while the overall pooled prevalence of an incomplete FA was 13.6% (95% CI: 11.2–16.2). The complete FA was found to be most prevalent in North American (11.3%) and European (11.2%) populations, and least prevalent among Asian (7.5%) populations, especially Chinese (4.4%) and South Koreans (5.8%). In the presence of a complete FA, a contralateral FA (complete or incomplete) was found in 53.1% of cases.

Conclusion: The FA is a commonly present anatomical structure. Awareness of a complete variant of the FA during procedures performed on the atlas vertebra is essential in reducing the risk of iatrogenic injury. Therefore, risk for the presence of an FA should be considered by surgeons prior to procedures on the atlas in each patient according to gender and ethnic group. As such, we highly advise preoperative screening with CT as the gold standard for finding the presence of an FA.

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PS095

Quality of Life and aortobifemoral bypass – Importance of the hypogastric arteries

C. Braz 1, R. Castro-Ferreira, P. Dias, S. Sampaio, J. Teixeira

Faculdade de Medicina da Universidade do Porto, Portugal
E-mail address: carolina.c.braz@gmail.com
(C. Braz).

Aim: Evaluate SD after AFB and assess the importance of patent hypogastric arteries before the procedure.

Introduction: The aortobifemoral bypass (AFB) is one of the best options to revascularize patients with Aortoiliac Occlusive Disease (AIOD). The impact of this procedure in sexual function (SF) is unpredictable, with 20–80% of the patients reporting sexual dysfunction (SD) after surgery. There’s still insufficient data to safely predict the development of SD after AFB and what the role of hypogastric arteries.

Methods: The study includes only male population submitted to AFB due to AIOD. Patients with major amputations after the surgery were excluded. The development of SD was evaluated by phone call. The quality of life before and after the procedure was evaluated by a standardized index score questionnaire (15SD). Pre-operative patency of hypogastric arteries was appraised by assessing the patients imaging file. The arteries with direct antegrade flow were considered patent.

Results: Of a total of 53 patients, 40 were included in the study – exclusion causes were intrahospital death, natural cause death and major amputation. In the included group, 37% reported worsening, 26% improved and 37% did not notice any change in SF after surgery. If at least one of the hypogastric arteries was patent before surgery, 58% described worsening in SF compared to only 13% in the group with no sustained antegrade flow to the hypogastric arteries. 92% of the patients was not warned of the possibility of SD after surgery, being that 26% of these would have refused the procedure if they knew.

Conclusion: SD is a prevalent and often overlooked complication after open aortoiliac revascularization and it remains a major taboo in the surgeon/patient relation. The existence of at least one hypogastric artery with preserved antegrade flow before