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Collateral circulation in the obstruction of the superior vena cava flow

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mastication efficiency. Statistical procedures were performed using IBM® SPSS® Statistics - Version 24 and Microsoft® Excel for Mac - Version 16.15.

Results: Twenty-six of the selected patients were women and mean age was 38.86 ± 17.5 years old. In all cases a single side TMJ was treated - 14 left and 16 right. MRI had shown anterior disc displacement (ADD) with complete reduction on opening in 15 patients, without reduction in 9 and with partial reduction in 6. Results show an improvement in pain, both at rest and in function, MMO and mastication efficiency at a statistically significant level, up to 12 months postoperative. The procedure was considered well tolerated (mean Likert: 3.15 ± 1.13) and no adverse events were reported. Discussion and conclusions: ALLV is a safe, well tolerated and cost-effective minimally invasive procedure, which proves to reduce pain and functional impairment up to 12 months post-operative, with little or no complications [6,7].

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References

- Emes Y, Arpınar IŞ, Oncü B, et al. The next step in the treatment of persistent temporomandibular joint pain following arthrocentesis: a retrospective study of 18 cases. J Craniomaxillofac Surg. 2014;42(5):e65-e69.
- Kuruvilla V, Prasad K. Arthrocentesis in TMJ internal derangement: a prospective study. J Maxillofac Oral Surg. 2012; 11(1):53-56.
- Stegenga B. Nomenclature and classification of temporomandibular joint disorders. J Oral Rehabil. 2010;37(10):760-765.
- Nitzan DW, Dolwick MF, Martinez GA. Temporomandibular joint arthrocentesis: a simplified treatment for severe, limited mouth opening. J Oral Maxillofac Surg. 1991;49(11):1163-1167.
- Guarda-Nardini L, Manfredini D, Ferronato G. Arthrocentesis of the temporomandibular joint: a proposal for a singleneedle technique. Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2008;106(4):483-486.
- Malik A, Shah A. Efficacy of temporomandibular joint arthrocentesis on mouth opening and pain in the treatment of internal derangement of TMJ-A clinical study. J Maxillofac Oral Surg. 2014;13(3):244-248.
- Vos LM, Stegenga B, Stant AD, et al. Cost effectiveness of arthrocentesis compared to conservative therapy for arthralgia of the temporomandibular joint: a randomized controlled trial. J Oral Facial Pain Headache. 2018;32(2):198-207.

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Collateral circulation in the obstruction of the superior vena cava flow

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ABSTRACT

Introduction: By means of virtual reconstructions obtained from the data provided by the different Multislice Computed Venotomographies (MCVT) [1-3] performed in our institution during the period from 2015 to date, a total of 14 patients with different pathologies (oncological, venous thrombosis by port-a-cath catheter, etc.) were evaluated, which showed signs of obstruction of the superior vena cava and collateral circulation.

The aim is demonstrating a venous shunt pattern in cases of Superior Vena Cava obstruction by virtual representation of the collateral circulation in acute or chronic stage.

Materials and methods: Sixtty-four detector Phillips Multislice tomograph and process the data using IntelliSpace Portal (specialized Phillips software).

Results: The collateral circulation network chosen depended mainly on whether or not the Azygous vein was compromised and the time of evolution of the obstruction [4].

From this, it is possible delimit two circuits: an anterior collateral drainage and a posterior collateral drainage. The posterior circuit is presented principally in acute cases, with the indemnity of the root of the Azygous Vein and through the intercostal veins, vertebral plexuses, the Azygos system, Hemi-azygous, and accessory.

Whereas, the anterior circuit is mainly presented by the obstruction of the Superior Vena Cava and the Azygous too, or in chronic situations of obstruction of the SVC [5], either by means of anterior thoracic collateral, middle and/or lateral, that through superficial or deep venous tributaries return the venous flow to the central circulation by the Inferior Vena Cava.

Discussion and conclusions: The knowledge of the venous anatomy, through virtual representations, allow to understand the collateral circulation and its patterns in cases of obstruction of the Superior Vena Cava [6].



References

- Uhl JF, Verdeille S, Martin-Bouyer Y. Three-dimensional spiral CT venography for the pre-operative assessment of varicose patients. VASA. 2003;32(2):91-94.
- Uhl JF. Verdeille S. Martin-Bouver Y. Pre-operative assessment of varicose patients by veno-CT with 3D reconstruction 3rd International workshop on multislice CT 3D imaging. Debatin: Springer Verlag Ed pavone; 2003. p. 51-53.
- Uhl JF, Caggiati A. Three-dimensional evaluation of the venous system in varicose limbs by multidetector spiral CT. In: Passariello CR, editor. Multidetector-row CT angiography. Medical radiology series. Berlin: Springer; 2005. p. 199–206.
- Urroticoechea A, Mesia R, Domínguez J, et al. Treatment of malignant superior vena cava síndrome by endovascular stent insertion. Experience on 52 patients with lung cancer. Lung Cancer. 2004;43:209-214.
- Rowell NP, Gleeson FV. Steroids, radiotherapy, chemotherapy and stents for superior vena caval obstruction in carcinoma of the bronchus: a systematic review. Clin Oncol. 2002;14:338-351.
- Ovelar JA, Cédola J, Merino JP. Importancia de los afluentes proximales en la integración venosa torácica abdominal. Manual para el diagnóstico y tratamiento de las flebopatías; 2015.

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Identification of potentially inappropriate medications with risk of major adverse cardio- and cerebrovascular events among elderly patients

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ABSTRACT

Introduction: Elderly patients pose challenge in clinical practice. Multimorbidity, polypharmacy, and potentially inappropriate medications (PIMs) are a reality among these patients, and can increase the risk of adverse drugs reactions [1]. However, data on the prevalence of PIMs with risk of Major Adverse Cardio- and Cerebrovascular Events (MACCE) in secondary care is scarce. Our aim was to evaluate the prevalence of such PIMs in a Portuguese hospital and to identify the most common pharmacotherapeutic groups involved.

Materials and methods: A cross-sectional study was undertaken in a Portuguese hospital in Beja in the last three months. Patients aged 65 or older with previous cardiovascular disease (considered as ischaemic and haemorrhagic stroke, transient ischaemic attack, and heart failure), and with at least three home medications were included. Data was extracted from medical charts, which included sociodemographic, clinical, and pharmacotherapeutic variables. PIMs with risk of MACCE were identified using a current systematic review. The prevalence of PIMs was defined as the number of elderly patients with medications included in the PIM-list among all the patients included. The informed consent of the subjects and acceptance of the study protocol by a local ethics committee has been obtained. Data analysis was performed using univariate statistics (IBM SPSS v.20.0).

Results: A total of 322 elderly patients were included, where 50.9% (n = 164) were female with a mean age of 78.8 ± 10.8 years old. Almost half of the sample presented previous history of cerebrovascular events (47.8%, n = 154), followed by heart failure (41.9%, n = 135). Patients presented an average of 3.9 ± 2.3 comorbidities per patient and 75.2%(n = 242) experienced polypharmacy (defined as the patient taking 5 or more drugs). Each patient was taking a mean of 6.9 ± 3.6 drugs. Thirty nine percent (n = 125) of the patients were using PIMs with cardio- and cerebrovascular adverse events, and 23.2% (n=29) of them presented MACCE risk. The most common pharmacotherapeutic group was Non-Steroidal Anti-inflammatory Drugs (NSAIDs) (51.7%, n = 15), followed by calcium channel blockers (17.2%, n = 5).

Discussion and conclusions: Data suggest that almost 40% of the patients were using PIMs with cardio- and cerebrovascular risk and had previous history of cardiovascular diseases. This may suggest that at discharge and during transitions of care, patients would benefit from a medication review.

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Reference

Aguiar JP, Brito AM, Martins AP, et al. Potentially inappropriate medications with risk of cardiovascular adverse events in the elderly: a systematic review of tools addressing inappropriate prescribing. J Clin Pharm Ther. 2019;44(3):349-360.

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