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A new predictor in patients with cardiac implantable electronic device for iatrogenic pneumothorax: The pneumothorax index

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Purpose: Recently, a significant increase in the frequency of the usage of cardiac implantable electronic devices (CIED) in cardiology. Pneumothorax (PTX) is one of the most important complications that is met while placing CEID. There is not a distinct data that is shown between body mass index (BMI) and clavicle length in the patients with PTX. In our particular study, we aim to investigate if there is a relationship between PTX and clavicle length and BMI in the patients with CIED.

Method: We included 1702 patients who had been placed CIED for any reason retrospectively between the years 2008 and 2018. We recorded demographic and procedural data in addition to clavicle length and BMI/clavicle length (PTX index).

Findings: We included 1568 patients without PTX and 34 (2.2 %) patients with PTX in our study. When anatomical distances were compared, it was found that clavicle proximal distal, angulus mandibular clavicle middle region, angulus mandibular clavicle distal tip distances decreased significantly in patients with PTX and PTX index increased significantly. The distance between angulus mandibular clavicle tip (OR:0.811) and pneumothorax index (OR:8.014) were determined as the variables for pneumothorax. When the cut-off value for PTX index was taken as 1.67, it was observed that PTX was predicted with 70 % sensitivity and 62 % specificity.

Result: The length of clavicle and BMI can provide the operator with a prognosis about the PTX development in the patient.

Biography

Abdullah Orhan Demirtaş has completed his MD at the age of 30 years from Health Science University Adana Health Practise and Research Center. He is the resident doctor of Health Science University Adana Health Practise and Research Center,. He has published more than 5 papers in reputed journals and has been serving as an editorial board member of reputed.

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