

Significance of Nasal Septum Angulation and Its Association with Rhinosinusitis Symptom Scores

Nazal Septum Angulasyonunun Önemi ve Rinosinüzit Semptom Skorları ile İlişkisi

Norhafiza Mat LAZIM , Abdul Mokhti ABDULLAH , Baharudin ABDULLAH , Zul Izhar Mohd ISMAIL 

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ABSTRACT

Objective: The aim of the study was to determine the association of angulation of nasal septum with the severity of rhinosinusitis as measured by symptom score and Visual Analog Score (VAS).

Method: The study was performed as a cross sectional study conducted at two different centres in Malaysia. Ninety-eight patients who were diagnosed with rhinosinusitis and fulfilled the selection criteria were assessed as for the symptom score and VAS and the measurement of angulation of nasal septum was performed through a coronal view of CT paranasal sinuses in bone window setting at osteomeatal complex level.

Results: The result obtained from one-way ANOVA test revealed a significant association between category of severity of septal angulation and the symptom score of rhinosinusitis ($p=0.025$). In addition, the result obtained from one-way ANOVA test also revealed a significant association between category of severity of septal angulation and the VAS of rhinosinusitis ($p<0.05$).

Conclusion: Severity of nasal septum angulation may be significantly associated with severity of rhinosinusitis based on symptom score and VAS. These findings could be used in tailored management of patient with rhinosinusitis especially during functional endoscopic sinus surgery.

Keywords: Nasal septal angulation, rhinosinusitis, symptoms score, endoscopic sinus surgery

ÖZ

Amaç: Bu çalışmanın amacı, nazal septum açısının rinosinüzit şiddeti ile ilişkisini semptom skoru ve Visual Analog Score (VAS) ile belirlemektir.

Yöntem: Araştırma, Malezya'daki iki farklı merkezde kesitsel çalışma olarak yürütüldü. Rinosinüzit tanısı alan ve çalışma protokolüne uyan doksan sekiz hasta semptom skoru ve VAS açısından değerlendirildi ve koronal planda kemik penceresinde çekilen paranazal sinus tomografisi ile osteomeatal kompleks seviyesinde nazal septumun orta hatla olan açısının (angulasyon) ölçümü yapıldı.

Bulgular: Tek yönlü ANOVA testinin sonucu, septal angulasyonu ile rinosinüzit semptom skoru arasında anlamlı bir ilişki bulundu ($p=0,025$). Ek olarak, tek yönlü ANOVA testinin sonucu aynı zamanda septal angulasyonun ciddiyet kategorisi ile rinosinüzitin VAS'ı arasında da anlamlı bir ilişki olduğunu ortaya koydu ($p<0,05$).

Sonuç: Nazal septum angulasyonunun şiddeti, semptom skoru ve VAS temelinde rinosinüzitin ciddiyeti ile ilişkili olabilir. Bu bulgular, rinosinüzitli hastaların özellikle fonksiyonel endoskopik sinus cerrahisi ile tedavisi sırasında dikkate alınabilir.

Anahtar kelimeler: Nazal septal angulasyon, rinosinüzit, semptom skoru, endoskopik sinüs cerrahisi

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Corresponding Author:
N.M. Lazim

ORCID: 0000-0002-2367-1814
Department of Otorhinolaryngology-Head & Neck Surgery, School of Medical Sciences, Universiti Sains Malaysia, 16150 Kubang Kerian, Kelantan, Malaysia.
✉ norhafiza@usm.my

A.M. Abdullah
ORCID: 0000-0003-0283-2030
Hospital Melaka, Jalan Mufti Haji Khalil, Department of Otorhinolaryngology-Head & Neck Surgery, Melaka, Malaysia

B. Abdullah
ORCID: 0000-0001-9138-9215
Universiti Sains Malaysia, Health Campus, Department of Otorhinolaryngology-Head & Neck Surgery, Kelantan, Malaysia

Z.I.M. Ismail
ORCID: 0000-0002-3732-8240
Universiti Sains Malaysia, Health Campus, Department of Anatomy, Kelantan, Malaysia