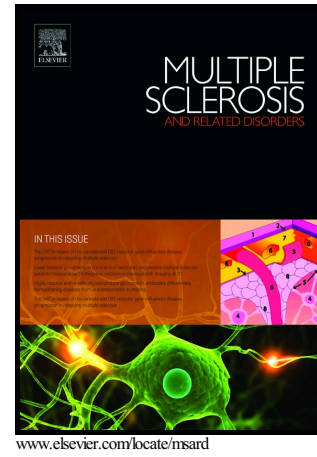


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SPONTANEOUS YAWNING IN PATIENTS WITH MULTIPLE SCLEROSIS A
Polygraphic Study

Hülya Uluğut Erkoyun^{1*}, Yeşim Beckmann², Nazlı Gamze Bülbül³, Tülay Kurt İncesu², Nevin Gürgör Kanat², Cumhuri Ertekin⁴

¹Department of Neurology, Cigli Region and Training Hospital, Izmir/ Turkey

²Department of Neurology, Izmir Katip Celebi University Atatürk Research and Training Hospital, Izmir/Turkey

³Department of Neurology, Mus State Hospital, Mus/Turkey

⁴Departments of Neurology and Clinical Neurophysiology, Medical School Hospital Aegean University, Izmir/ Turkey

*Corresponding author. Hülya Uluğut Erkoyun MD Address: Cigli Region and Training Hospital, Yeni Mahalle Mah., 8207. Sk. 71-2, 35620 AOSB, Cigli, Izmir/ TURKEY. Tel.: +90 505 6167580. hulyaerkoyun@gmail.com

ABSTRACT

Background

Patients with multiple sclerosis (MS) suffer from the repetitive yawning and sleep problems. Yawning is observed in MS and other central nervous system disorders and yawning and swallowing may be controlled by the network of the brain stem. Therefore it is important to investigate the MS patients with various clinical and radiological locations in order to understand the role of brainstem on the yawning mechanisms. One hour polygraphic recording would be crucial method for this purpose, because it is easy to observe spontaneous yawning (SY) and spontaneous swallowing (SS) together with their electrophysiologic counterparts. Previous studies reported that contagious yawn and swallow are temporally related and frequency of swallows was increased within 10 seconds of post yawn period in normal adult subjects. We have re-investigated this phenomenon by studying the SY and SS in polygraphic recording in normal subjects and patients with MS. Then we hypothesized that SY is expected to be increased in MS patients.

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