Assessment of Optic Nerve Sheath Diameter in Healthy Adults in Turkey

Türkiye'de Sağlıklı Erişkinlerde Optik Sinir Kılıfı Çapının Değerlendirilmesi

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Dear Editor

We have read the article titled "Assessment of Optic Nerve Sheath Diameter in Healthy Adults in Turkey" prepared by Gökçen et al. with great interest.[1] We thank the authors for this informative and successful manuscript. We also would like to mention an important point about sonographic measurement of optic nerve sheath diameter.

There are several studies in the literature showing that optic nerve sheath diameter is associated with cranial pressure.[2] It can be used as an indirect indicator of cranial pressure because it is easily accessible and does not require patient transfer, especially in the evaluation of critical patients.[2] Most important limitation in studies of sonographic measurement of optic nerve sheath diameter is to quantify the intra- and inter-observer variations.[3-5] An observer variation in the sonographic measurement of optic nerve sheath study conducted by radiologists revealed low intra- and inter-observer variation between three observers.[3] They reported inter-observer variation as ±0.2 mm.[3] Authors emphasized the importance of standardization of examination technique in their study.[3] Another observer variation in the sonographic measurement of optic nerve sheath diameter study conducted by neurologists revealed low intra- and inter-observer variation between three observers.[4] They reported interobserver variation in a high range of 0.92 and 0.97.4 In a study conducted by emergency physicians, it was reported that highly reliable method both in longitudinal and transverse planes the sonographic measurement of optic nerve sheath diameter.[5]

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