최 정 윤

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Analysis of Nystagmus in Central Vestibular Disorders

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Nystagmus is the most important clinical sign of vestibular disorders. Analysing nystagmus in term of the direction, intensity, temporal features, and modulation patterns provides valuable information about vestibular disorders. Previous approach for the analysis of nystagmus in the clinical neuro-otology mainly focused on the direction and intensity of nystagmus in relation to the lesion side within relatively short time window. However, several studies have recently reported using more detailed and analytic methods for nystagmus. Therefore, this lecture will review the usefulness of the new analytical method for the nystagmus used in recent studies. In addition, this lecture also provides an overview of how to analyze nystagmus using mathematical formulas commonly used in computational neuroscience and neurophysiology. This integrated approach to nystagmus will be a meaningful step in understanding the pathophysiological mechanisms of vestibular disorders.

Key Words: Nystagmus, Central vestibular disorders

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