

原著

外眼筋自己受容器に関する研究 -内田カラーレンズによる間歇性外斜視治療の効果-

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A Study of the Effect Proprioception on Extraocular Muscles -The Use of Blue-Colored Glasses for Treatment of Intermittent Exotropia-

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Abstract

The present study examined the effectiveness of wearing blue-colored glasses for the correction of intermittent exotropia. The spectro transmittance of the glasses was from 555 to 600 nm and illumination was reduced by 25%. The effect of these glasses was evaluated on the basis of changes in deviation and exo-form (exophoria, exophoriatropia, exotropia). The deviations in near fixation and far fixation before these glasses were worn were clearly decreased after wearing them for one to three years. The decrease was larger in near fixed deviation than in fax fixed deviation. The exo-form was improved in 53% of patients with near fixation and 28% of patients with far fixation. Based on these results, it was concluded that these colored glasses can block the increase in proprioceptive impulses evoked by light.

要約

ブルーカラー眼鏡は外斜視に対して矯正効果を持つことが報告されている(内田1991年).しかし全ての外斜視に効果を持つかどうかは不明である. 本論文は間歇性外斜視に対してどのような効果を示すか検討した.この眼鏡の吸収特性は555~600nmで,視感透過率は75%である.本眼鏡装用による外斜視矯正効果は斜視角と外斜形態(外斜位,外斜位斜視,外斜視)の変化から判定した.本眼鏡装用前の近見眼位と遠見眼位斜視角は装用後(1~3年)には明らかに減少し,その減少率は近見の方が遠見よりも高かった.外斜形態は近見では53%,遠見では28%の症例に改善が認められた. 本眼鏡は光刺激による自己受容器からの常在性インパルスの異常増幅を抑制することが明らかになった.
