

A V Phenomenon

Short Communication

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Abstract

This paper describes about A pattern, V pattern, X pattern and its treatment.

Keywords: A pattern; V pattern; X pattern

Introduction

The main reason of A-V pattern is "OM over action/ OM paresis and or Brown syndrome. During horizontal movement, there will be significant difference between up gaze and down gaze.

"A pattern" is considered when the deviation between up gaze and down gaze is at least 10 PD. It is considered when divergence is more at down gaze as compared to up gaze. It's subtype is: Lamda pattern. In case of Lamda pattern, during horizontal movement eye is divergent more at down gaze but no significant deviation is seen in up gaze.

A pattern is classified as:

- "XT" - A pattern
 - "ET" - A pattern
- eg like V pattern

"V pattern" is considered when during horizontal movement eye is diverged more at up gaze compared to down gaze. The difference between up gaze and down gaze will be at least 15 PD.

Sub types of V pattern are Y pattern and Arrow pattern. V pattern is classified as:

- "XT" - V pattern
- "ET" - V pattern

XT - V pattern is considered when at up gaze = XT 30 PD, Primary = XT 20 PD and at Down gaze - XT 10 PD

ET - V pattern is considered when at up gaze = ET 10 PD, Primary = ET 20 PD and at Down gaze - ET 30 PD

"X pattern" is considered when during horizontal movement eye will diverge at down gaze and at up gaze also. Usually, it is idiopathic condition and there may be a chance of long standing presence of large angle of Exotropia and may be chance of tight contracted LR muscle [1-3].

Treatment of and V Pattern

With minimal amount of A and V pattern, it can be treated by offsetting or transposing the Horizontal Rectus muscle. The meaning of Transposing or offsetting is Medial Rectus can be displaced towards up and towards down. It is always remembered that, Medial Rectus muscle insertion is displaced towards the apex of the deviation. So, in case of A pattern, Medial Rectus muscle insertion will be displaced towards apex position. i.e. up gaze. "Lateral Rectus muscle insertion is displaced towards widening part. i.e. During A pattern, Lateral muscle insertion is displaced towards down gaze. Most of the time, muscle recession is also needed with offsetting [4,5].

References

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