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Fusion and muscle rehabilitation in reducing eterophorias and eterotropias with symptoms of fusion deficits

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The visual system is the anatomical-functional entity whose aim is to allow the vision as a whole resulting from a complex combination of elementary functions. To guarantee this, there is also a neuro-muscular system that allows the eyes to move in a synchronous way during the visual exploration. The visual stability of neuro-muscular system is guaranteed by the six oculomotor muscles. The most obvious sign is common to all neuromuscular abnormalities of the eye is an altered alignment of the visual axis (Strabismus): Eterophorias; Strabismus latent, i.e., not occurs through the process of merging eye (fixation of an object); Eterotropias: Fixed strabismus or not kept under control by the mechanism of fusion eye. Fusion is a process that allows a two eyes to work as a single organ, locate an object stimulating the corresponding points of the two retinas so that it can appear only. The objective of this study is to assess efficacy of muscular rehabilitation and fusion for the resolution of symptoms and reduction of phorias/tropias with attached fusion deficit. We enrolled 50 subjects aged between 14 and 50 years. All subjects with eterotropias or eterophorias at angles over 15 prism diopters. All patients had large deficit of fusion for distance and near and presented vagal ocular symptoms with nausea, dizziness, visual disturbances of night lights, difficulty driving at night, unable to see 3D movies and discomfort in enclosed particularly crowded (Hypermarkets).

Biography

Emanuela Canzano has graduated with honors in Orthoptics and Ophthalmic Assistance in 2006 at the University of "G D'Annunzio" in Chieti (Italy). She has completed several Masters and other courses of specialization in Italy and abroad where she acquired diagnostic, rehabilitative and surgical skills. She has technical skills in performing diagnostic tests ophthalmologic as fluorescein angiography, HRT, Matrix, OCT, microperimetry, electrophysiology, visual fields (binocular, manual, computerized), automatic refractometer I, ophthalmometry, tonometry, corneal map, orbscan, pachymetry laser and digital, pupillometry and slit-lamp examination. In 2010, she opened her private practice in Italy, where she visits and make visual, muscular and functional rehabilitation. She has 7 years of experience in optical stores.

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