A Test for Binocular Relationship

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After-image in non-amblyopic eye and visuscopy, both passive (foveal) and active (fixating area) of amblyopic eye. The latter permits the studying of the correspondence with the amblyopic eye fixing, and therefore to compare the correspondence angle with that of fixation eccentricity, both being investigated under similar conditions of examination.

Useful information may be obtained from this test as regards the association between the eccentric fixation and the anomalous binocular relationship. It is also interesting to follow the evolution of the relation between these two conditions in variations of the fixation area, especially those which occur in the course of treatment.

The test is carried out as follows: A linear or 'X' shaped foveal afterimage is created in the non-amblyopic eye. This is maintained closed—but not covered—by applying the finger at the external angle and gently pulling the skin laterally. Through this eye the after-image will be seen; its perception is prolonged by an intermittent light hitting the lids. Visuscopy is applied to the amblyopic eye and the patient has to describe the position of the visuscope dark disc in relation to the after-image. Firstly passive visuscopy, the disc being projected on the fovea (to determine the fovea-fovea correspondence) and next active visuscopy (where the patient is asked to look erf the dark disc). The latter gives us the correspondence between the fixation area and the fellow fovea. One can also move the disc until it is seen—by the patient—to coincide with the after-image, and the patient is then asked to fixate the center of the disc, whilst the examiner watches for any movement occurring at this moment.

References

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