Prospective comparative study for various treatment modalities of dissociated vertical deviation without inferior oblique over-action

Mohamed Mostafa Kamel Diab and Ahmed M Swalim
Ain Shams University, Egypt

Introduction: Dissociated vertical deviation (DVD) is a poorly understood vertical deviation which may remain latent (compensated) or manifest (decompensated). The deviation may be symmetrical or asymmetrical.

Objective: We compare 3 different surgical approaches in patients with DVD without IO over-action.

Methods: This is a prospective study include 48 consecutive patients with dissociated vertical deviation without inferior oblique overaction subdivided into three groups, 16 patients each Group I patients was subjected to bilateral inferior rectus tucking (plication) and Group II patients were subjected to combined bilateral superior rectus recession and Faden procedure (posterior fixation), lastly Group III bilateral superior rectus recession is the procedure for management.

Results: It was found that DVD had significantly improved in all cases of group inferior rectus tucking with correct 11±3 pd of vertical deviation and 4±2 pd of asymmetry with exception one patient needed retucking of unilateral IR for residual manifest DVD. Group SR Faden procedure revealed moderately improved DVD with correct 9±2 pd of vertical deviation 2±2 pd of asymmetry with 4 patients needed resection of unilateral IR for residual manifest DVD. Group SR recession corrected to 10±3 pd of vertical deviation and 3±1 pd of asymmetry.

Conclusion: Various treatment modalities as a primary procedure for management of dissociated vertical deviation without inferior oblique overaction revealed still superior rectus recession combined with faden procedure is the best line of treatment nevertheless inferior rectus tucking procedure is safe easy respectable substitute, further studies is recommended in this field.

Biography
Mohamed Mostafa Kamel Diab has completed his Ph.D from Ain Shams University and Postdoctoral studies from Ain Shams University School of Medicine, Cairo, Egypt. He is a Professor of Ophthalmology, Ain Shams University, Cairo, Egypt and Consultant Ophthalmology Magrabi Hospital, KSA. He has published 16 international papers in reputed ophthalmology journals.

mo_mustafaus@hotmail.com