

Comparative Evaluation of Postoperative Cosmesis, Mydriasis and Anterior Chamber Morphology after Single-Pass Four-Throw Pupilloplasty between Traumatic and Congenital Iris Defects

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Abstract : Aim: To compare the postoperative pupil cosmesis, mydriasis, and anterior chamber depth (ACD) in traumatic and congenital iris defects after Single-Pass Four-Throw pupilloplasty (SFTP). Method: SFTP was performed along with cataract surgery in 6 patients, each of congenital and traumatic iris defects and pupil size, mydriasis, and ACD was compared after three months. Results: SFTP was successful in repairing congenital and traumatic cases except in 1 traumatic case with a large iris defect. Horizontal pupil diameter decreased while ACD increased in both groups and was comparable between the two groups. The traumatic group showed a significant decrease in pupil diameter while there was an insignificant change in the horizontal pupil diameter in the congenital group. Mydriasis was adequate for fundus examination and was comparable between the two groups. The effect of SFTP on ACD was inconclusive due to the confounding effect of cataract surgery. The incidence of iris atrophy was equal in both groups. Conclusion: SFTP results in anatomical and functional restoration in cases of iris defects with no inadvertent effect on mydriasis.

Keywords : anterior chamber depth, mydriasis, pupil cosmesis, single-pass four-throw pupilloplasty

Conference Title : ICCOOP 2022 : International Conference on Community Ophthalmology and Ophthalmology Practice

Conference Location : Paris, France

Conference Dates : March 28-29, 2022