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Multi-drug resistant proteins expression in retinoblastoma in primary enucleated eyes versus eyes enucleated after failure of conservative treatment

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Objective: To compare expression of Multidrug-resistant protein 1/P-glycoprotein (MDR1/Pgp) in retinoblastoma in eyes treated by primary enucleation due to advanced tumor at initial presentation and those enucleated after being resistant to chemotherapy.

Design and Methods: A prospective non randomized masked analysis. of pathology specimens obtained from twenty retinoblastoma patients presenting at the retinoblastoma clinic at ophthalmology department, Specimens from patients who had enucleation were divided into 2 groups. Patients in group 1 underwent primary enucleation due to advanced tumor at presentation. Patients in group 2 underwent secondary enucleation after failure of conservative treatment. Immuno histochemical studies were performed searching for expression of Multidrug-resistant protein 1/P-glycoprotein (MDR1/ Pgp) in the two groups. Patient demographic and eye examination data we collected and reviewed.

Results: Analysis of the primary enucleation group showed high positive, low positive and negative expression in 1 (10%), 2 (20%) and 6 cases (70%) respectively. In secondary enucleation group 5 cases (50%), 3 cases (30%) and 2 cases (20%) showed high positive, low positive and negative expression respectively.

Conclusion: This pilot study though, not being able to demonstrate statistical significance in MDR1 expression in primary enucleated vs. secondary enucleated resistant cases, demonstrated p value low enough to indicate a trend for more MDR1 expression in resistant cases.(P= 0.068), . Further study with a larger sample size is warranted.

Biography

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