

R1 R2 R3 PG0 PG1 Estagiário Tecnólogo
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Service (sector) Tumors and Pathology N° CEP

Histopathologic Findings in Retinoblastoma

Souza Filho, JP; Torres, VL ; Pires, LA; Teixeira, LF; Erwene, C; C; Lowen, MS; Martins, MC. Ocular Pathology Purpose: To study histopathological findings of enucleated eyes with retinoblastoma Methods: Twenty two cases of retinoblastoma treated by enucleation at Federal University of São Paulo from December 2000 to September 2002 were histopathologically reviewed. Clinical data included age, sex, race and unilateral or bilateral involvement. The histopathological review evaluated the presence of iris and/or angle neovascularization, degree of tumour differentiation and optic nerve and choroidal invasion, according Khelifaoui's classification. Results: Of 22 patients, 10 were boys and 12 were girls, 12 were white, 7 black and 3 were asiatic, ranging in age from 6 to 96 months (mean, 22,1 months), with 9 cases bilateral and 13 case unilateral. All tumors were histologically characterized by a proliferation of small cells with high nuclear-to-cytoplasmic ratios and 14 (63,6%) of them were well differentiated. Necrosis and calcification and iris and/or angle neovascularization were observed in 100%of the tumors. Choroidal involvement was noted in 10 (45,4%) cases (degree II) and optic nerve invasion in 6 (27,2%) cases (degree III / IV). Conclusion: Neovascularization, necrosis and calcification were the most commonly feature observed. The invasion into the optic nerve and choroid, the two most important predictors of patient outcome, were found in 27,2% and 45,4% of the cases respectively.