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Service (sector) Pathology N° CEP

Histopathologic Findings in Retinoblastoma

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Purpose: To study histopathological findings of enucleated eyes with retinoblastoma **Methods:** Ten cases of retinoblastoma treated by enucleation at Federal University of São Paulo from December 2000 to October 2001 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 tumor differentiation and optic nerve and choroidal invasion; according Khelifaoui's classification. **Results:** Of 10 patients, 5 were boys and 5 girls, 6 were white, 3 black and 1 asiatic, ranging in age from 2 to 28 months (mean, 9.1 months), of which 3 cases were bilateral and 7 case unilateral. All tumors were histologically characterized by a proliferation of small cells with high nuclear-to-cytoplasmic ratios and 8 (80%) 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 6 (60%) cases (degree II) and optic nerve invasion in 3 (30%) cases (degree III). **Conclusion:** Neovascularization, necrosis and calcification were the most common feature observed. The invasion into the optic nerve and choroid, the two most important predictors of patient outcome, were found in 30% and 60% of the cases respectively.