

R1 R2 R3 PG0 PG1 Estagiário Tecnólogo
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Ultrasound Biomicroscopy Features of Iris and Ciliary Body Melanomas Before and After Brachytherapy

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Purpose: To demonstrate ultrasound biomicroscopy (UBM) features of iris and ciliary body melanomas before and after brachytherapy. **Methods:** Four uveal anterior melanoma cases submitted to brachytherapy were retrospectively studied. All cases were submitted to UBM examination prior to treatment and repeatedly after treatment. **Results:** Before brachytherapy, UBM examination demonstrated, in the four cases, a solid mass in iris and/or ciliary body and allowed its characterization, sizing and positioning. Two cases had a pigmented scleral lesion corresponding to the tumor location, but UBM did not detect any scleral infiltration at those sites. After brachytherapy, all lesions showed progressive decrease in size and progressive attenuation of their limits. Internal reflectivity was variable. Complications related to brachytherapy were demonstrated: cataract, peripheral anterior synechiae at tumor location and secondary scleral thinning. **Conclusion:** UBM played an important role as a complementary diagnostic method of anterior uveal melanomas, particularly ciliary body melanomas, but also allowed therapeutic planning (brachytherapy or surgery) and follow-up after treatment.