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Background: To report a case in which melanocytoma of the ciliary body in a pseudophakic eye presented with elevated intraocular pressure (IOP).

Methods: A 62-year-old woman presented with increased IOP in her right eye. Visual acuity of the right eye was light-perception and the IOP was 44 mmHg. Slit-lamp examination and ultrasonography revealed a ciliary body mass with widespread pigment dispersion in the anterior segment. Because of no useful vision and uncontrolled pain, enucleation of the right eye was performed.

Results: The tumor had a gross finding of a heavily pigmented, soft, and smooth surface 1.0x0.8x0.7 cm in size. Histopathologic examination revealed a melanocytoma of the ciliary body and focal malignant transformation with extension of melanocytoma cells and macrophages into the trabecular meshwork and anterior chamber angle.

Conclusions: Melanocytoma of the ciliary body is a rare benign intraocular tumor. The association of glaucoma with melanocytoma may be suggestive of a malignant change in the tumor.