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Service (sector) Retina and Vitreous N° CEP

Optical Coherence Tomography findings in patients with Retinopathy of Prematurity

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PURPOSE: To describe the morphological features of the macula in patients with retinopathy of prematurity (ROP). **DESIGN:** Observational cases series. **METHODS:** Fourteen premature babies with ROP grades I, II, III underwent dilated fundus examination and optical coherence tomography (OCT) evaluation in both eyes. **RESULTS:** In all twenty-eight eyes of the fourteen premature patients the OCT revealed a condensed retinal-pigmented epithelial (RPE) layer in the macular-foveal area shown by increased reflectivity. In these patients the retinal layers were not well differentiated. Foveal pit was clearly evident in one patient with 38 weeks and ROP II. **CONCLUSIONS:** OCT findings revealed poorly differentiated retinal layers in the macular region with increased reflectivity correspondent to the RPE-coriocapillaris complex in patients with ROP.