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Service (sector) Retina and Vitreous N° CEP

### **Retinopathy of Prematurity Associated with Total Retinal Detachment: a Case Series**

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**Purpose:** To describe characteristics of patients with retinopathy of prematurity (ROP) who presented total retinal detachment (stage 5). **Methods:** A retrospective study including patients with stage 5 ROP was carried out. The patients were evaluated at Federal University of São Paulo (UNIFESP) from 2001 to 2003. Data regarding demographics, clinical characteristics and management were collected from patients' records. **Results:** Sixty-two patients (110 eyes) with stage 5 ROP disease were evaluated. Forty five (72%) were referred from the state of São Paulo. The first ocular examination at the reference centers occurred between 9 and 109 weeks (median, 30 weeks) after birth. The median (range) birth weight and gestational age were 1180 g (600 – 2900 g) and 27.5 weeks (20 – 35 weeks), respectively. Twenty-five patients (40%) developed respiratory distress syndrome and needed oxygen therapy. Twenty patients (32%) underwent pars plana vitrectomy. **Conclusion:** Premature infants should undergo ocular examination early, notably the ones who have low birth weight and need oxygen therapy, in order to improve the diagnosis and management of ROP disease.