

## Retinopathy of Prematurity

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### Abstract

This paper describes introduction to retinopathy of prematurity, its classification and its treatment.

**Keywords:** Retinopathy; Prematurity; Classification; Treatment

### Introduction

Retinopathy of prematurity is a bilateral condition and it is associated with neovascularization on retina.

It is usually associated with low birth weight (< 1500 gm of the child) and for premature baby. The earliest sign of the retinopathy of prematurity is vasodilation and tortuosity of the vessels are seen. In this case, some part of the retina becomes vascular and other parts of the retina consist of blood vessels. Here, fibrous tissue is developed and it is extended which creates a mass behind the lens, appearing as a type of pseudo retinoblastoma.

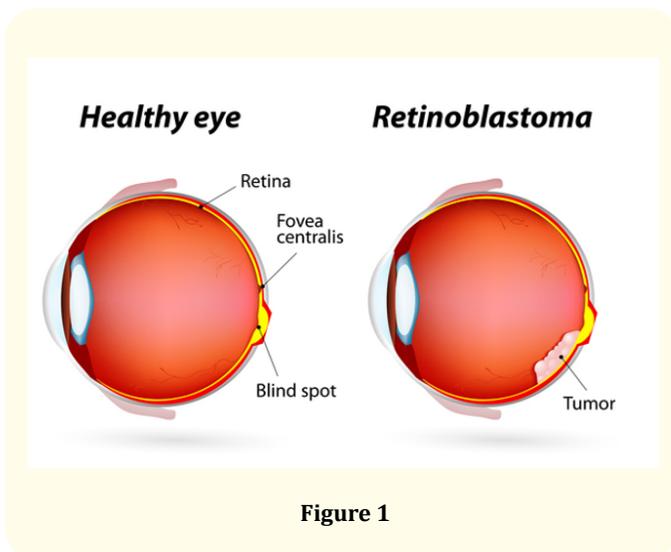
In many cases retina detaches and creates retinal detachment and patient may become blind also.

As per the fundus examination retinopathy of prematurity is considered as a stage which depends on the vascular and avascular part of the retina.

**Stages:** FEEST.

#### Stage 1

- Faint demarcation line.



**Figure 1**

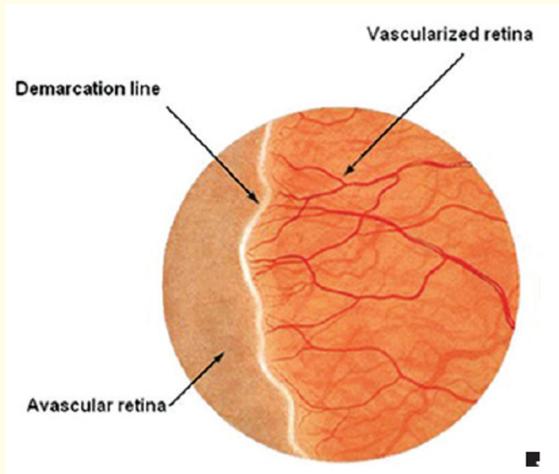


Figure 2

Stage 2:

- Elevated ridge.

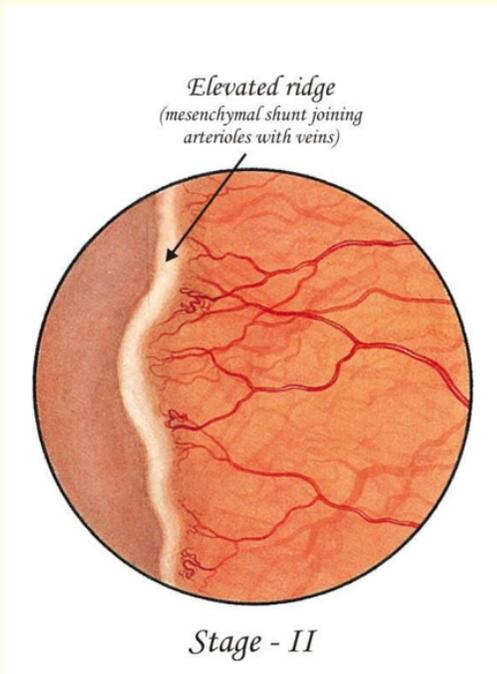
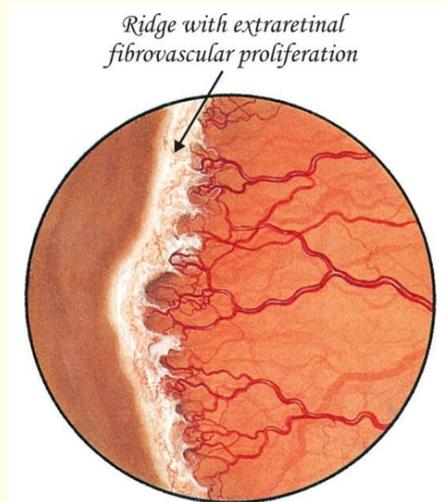


Figure 3

Stage 3:

- Extra retinal fibrovascular tissue.

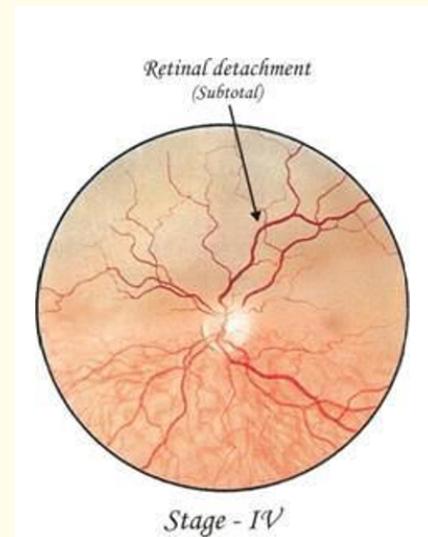


Stage - III

Figure 4

Stage 4:

- Sub retinal detachment.

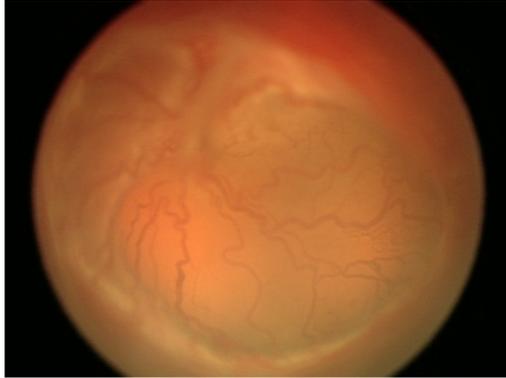


Stage - IV

Figure 5

**Stage 5:**

- Total retinal detachment.



**Figure 6**

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**Treatment:**

In most of the cases, surgical intervention is mandatory.

If vitreous lesion is seen then,

- Photocoagulation
- Scleral buckling
- Vit E (100 mg/kg/day).

During treatment follow up, partial pressure of oxygen level in the artery should be measured. Once retinopathy is developed, it should be reexamined every 3 to 4 months up to 4 years to check the progression of the disease [1-3].

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