

## Algorithm for Ophthalmic Observations

The observations at each screening examination should determine the appropriate course of action as provided in the table below. The ICROP definition of zones of the retina, stage of disease and pre-plus should be used (1)

		Less Severe					More Severe						
ROP Observed	NO		YES										
ROP Stage	-	-	1 or 2	1 or 2	1 or 2	3	ANY	1	2	ANY	3	3	
ROP zone or vessel location	II	I	II or III	II or III	I	II or III	III	II	II	I	I	II	
Plus/ Pre-plus	-	-	None	Pre-plus	None or pre-plus	None or pre-plus	Plus	Plus	Plus	Plus	None	Plus	
Screening Frequency	Every 2 wks 2/52	Every wk 1/52	Every 2 wks 2/52	Weekly 1/52				At least weekly					
When to terminate screening	<ul style="list-style-type: none"> <li>Vessels progressed to zone III.</li> <li>Infant &gt;36 weeks PMA.</li> </ul>		When characteristics of regression are observed on <b>two successive</b> examinations: <ul style="list-style-type: none"> <li>Lack of increase in severity.</li> <li>Partial progressing towards complete resolution. Transgression of vessels through demarcation line.</li> <li>Change in colour of the ridge from salmon pink to white.</li> <li>Commencement of the process of replacement of active ROP lesions by scar tissue.</li> </ul>										
When to treat								Consider Treatment	<ul style="list-style-type: none"> <li><b>Aggressive Posterior- ROP = urgent treatment.</b></li> <li><b>Otherwise = within 48 hours.</b></li> </ul>				
Post - treatment								Examination after 5-7 days	Examination after 5-7 days				

(1) International Committee for the Classification of Retinopathy of Prematurity. The International Classification of Retinopathy of Prematurity revisited. *Arch Ophthalmol* 2005; 123(7):991-999