

Università degli Studi di Catania

Clinica Oculistica

Direttore: Prof. A. Reibaldi



**25 ANNI DI ESPERIENZA  
DI RETINOPATIA DEL PREMATURO**

*A. Scuderi, L. Franco, F. Occhipinti, M. Zagari, A. Reibaldi*

**XXXVI CONGRESSO S.O.SI  
Acireale, 14-15-16 Aprile 2011**

**NOVEMBRE 1986**



1989

Università degli Studi di Catania  
**Istituto di Oftalmologia**  
Direttore Prof. A. Reibaldi

# Il distacco di retina oggi

corso teorico pratico  
sul trattamento del distacco di retina



Aula Magna dell'Università di Catania  
23-24 Marzo 1989

1992



UNIVERSITÀ DI CATANIA

ISTITUTO DI OFTALMOLOGIA  
*Dir. Prof. A. Reibaldi*

CLINICA PEDIATRICA II  
*Dir. Prof. G. Reitano*

# LA RETINOPATIA DEL PRETERMINE OGGI

TABELLA I (Trattamento eseguito)

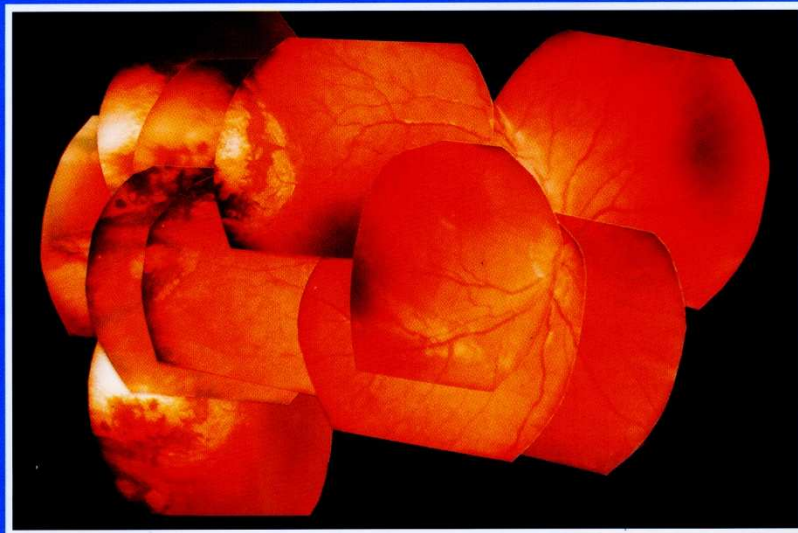
	98 (87.5%)	Crio
Occhi trattati(III Stadio)	112	11 (9.9%) Crio+Bialp
		3 (2.6%) Bialp



# PROGRESS IN RETINOPATHY OF PREMATURITY

edited by

A. Reibaldi, M. Di Pietro, A. Scuderi and E. Malerba



Kugler Publications bv/Amsterdam/New York

1997

## LONG-TERM RESULTS OF DIODE LASER TREATMENT FOR THRESHOLD RETINOPATHY OF PREMATURITY

ALFREDO REIBALDI, ANTONINO SCUDERI, MASSIMO DI PIETRO and  
EMILIO MALERBA

*Institute of Ophthalmology, University of Catania, Catania, Italy*

### Abstract

Recently, many studies have reported the usefulness of the diode laser in the treatment of threshold retinopathy of prematurity (ROP). In this paper, the authors report their experience in the treatment of threshold ROP by means of diode laser indirect ophthalmoscopy and transscleral diode laser. Eighty-four eyes of 44 patients affected by threshold ROP were treated in the period November, 1992 to March, 1997. The patients' gestational age ranged from 25-31 weeks and their birthweight from 650-1150 g. Transscleral diode laser treatment was performed in association with binocular indirect ophthalmoscopy (BIO) diode laser in cases of small pupils due to *tunica vasculosa lentis*. Treatment was successful in 74 eyes (88.09%), and the resolution time range was 12-21 days. Treatment failed in ten eyes (11.91%). Complications seen were hyphema in one eye and retinal hemorrhages in seven eyes, which spontaneously regressed in 11-16 days. In conclusion, diode laser treatment in threshold ROP provides results and times of regression comparable to cryotreatment, while fewer ocular and no systemic complications are observed. Furthermore, in comparison to cryotreatment, the diode laser is less invasive for sclera, allows the treatment of ROP localized in zone I, without opening the conjunctiva, and the administration of a more controlled dosage of treatment.

*Progress in Retinopathy of Prematurity, pp. 115-119*

*Proceedings of the International Symposium on Retinopathy of Prematurity, Taormina, Italy, September 21-24, 1997*

*edited by A. Reibaldi, M. Di Pietro, A. Scuderi and E. Malerba*

© 1997 Kugler Publications, Amsterdam/New York

# **PROGETTO RETCAM ITINERANTE:**

**CENTRO DI RIFERIMENTO: Clinica Oculistica  
Università di Catania**

## **UTIN PARTECIPANTI :**

*Ospedale S. Giovanni Di Dio di Agrigento: G. Artali*

*Ospedale Cannizzaro di Catania: G. Tumino*

*Ospedale Umberto I di Enna: F. Tuminelli*

*Ospedale Civico di Palermo: G. Corselli*

*Ospedale M. Paterno' Arezzo di Ragusa: G. Giaccone*

**Con la fondamentale collaborazione della  
Unione Italiana Ciechi ed ipovedenti  
consiglio regionale siciliano**



Paziente di:

**Ragusa**

Cognome: Cocuzza

Nome: Gloria

Eta' 30

Gestazionale:

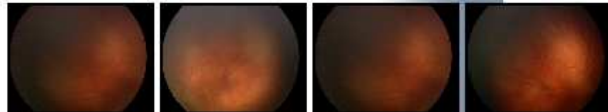
Peso alla nascita: 880

Caso: già ROP 1 stadio

data: 26/03/2009

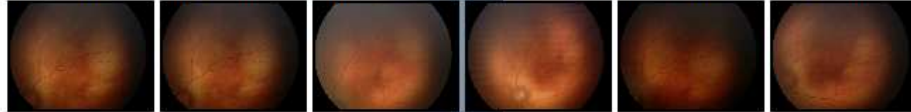
26/03/2009 26/03/2009 26/03/2009 26/03/2009

occhio sinistro:



26/03/2009 26/03/2009 26/03/2009 26/03/2009 26/03/2009 26/03/2009

occhio destro:



**commenta**

Ragusa

Ci sembra la ROP sia in regressione. Grazie

Ragusa

Ci sembra la ROP sia in regressione. Grazie

**index**

# CASISTICA :TOT. 365 PZ

DAL 14/10/08 AL 13/11/09

	23-28 sett. (media=26,76 sett.)	29-33 sett. (media= 31,59 sett.)
n ° pz	62	303
Avascolare	20 (32,25%)	<u>198 (65,34%)</u>
ROP I	28 (45,16%)	93 (30,69%)
ROP II	9 (14,51%)	11 (3,63%)
ROP III T	5 (8,06%)	1 (0,33%)

# CASISTICA :TOT. 365 PZ DAL 14/10/08 AL 13/11/09

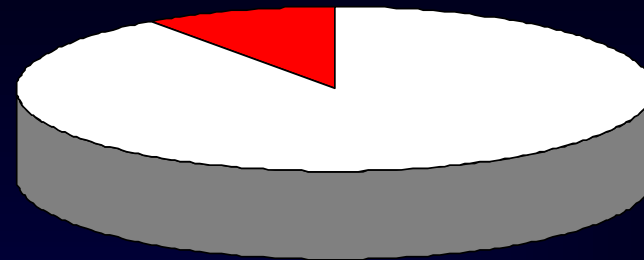
	550-1000 gr. (media=786,7gr.)	>1000 gr. (media=1350,3gr.)
n ° pz	57	308
Avascolare	17 (29,82 %)	<u>235 (76,29 %)</u>
ROP I	24 (42,10 %)	68 (22,08 %)
ROP II	11 (19,29 %)	5 (1,63 %)
ROP III T	6 (10,52 %)	0 (0 %)



**PERCENTUALE  
BAMBINI TRATTATI  
CON FC LASER**

**< 29 SETT. :**

**5 BAMBINI : 9,62%**



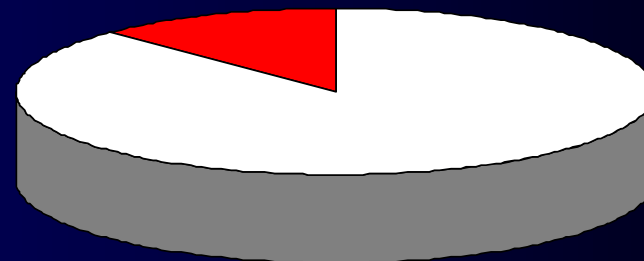
■ non trattati

■ trattati

**PERCENTUALE  
BAMBINI TRATTATI  
CON FC LASER**

**< 1000 gr.:**

**6 BAMBINI : 12,5 %**



■ non trattati

■ trattati



## PAZIENTI CON FOLLOW-UP 8 - 18 ANNI

	<b>CRIO</b> (26 PAZIENTI) 12 Maschi; 9 Femmine Occhi Trattati 42 Range 8-15aa	<b>LASER</b> (32 PAZIENTI) 14 Maschi; 18 Femmine Occhi Trattati 62 Range 6-12aa	
<b>ACUITÀ VISIVA</b>	5,94 $\pm$ 2,21 (Range P.L.-10/10)	6,18 $\pm$ 1,63 (Range 1/20- 10/10)	Non Significativo
<b>STRABISMO</b>	14 occhi (33,33%)	11 occhi (17,74%)	Non Significativo
<b>NISTAGMO</b>	2 pazienti (9,53%)	1 paziente ( 3,12%)	Non Significativo
<b>REFRAZIONE</b>	-4,96 $\pm$ 3,82 (Range $\pm$ 2.5 -12.50)	-2.95 $\pm$ 2.58 (Range $\pm$ 3.5 – 8.5)	P<00.5
<b>MIOPI</b>	39 occhi (92,85%)	57 occhi (91,93%)	Non Significativo
<b>IPERMETROPI</b>	3 occhi (7,14%)	5 occhi (8,06%)	Non Significativo
<b>ANISOMETROPIA</b>	8 pazienti (38,09%)	5 pazienti (15,62%)	Non Significativo

## COMPLICANZE SEGMENTO POSTERIORE

	<b>CRIO</b>	<b>LASER</b>	
<b>PIEGHE RETINICHE PERIFERICHE</b>	7/42 (16.66%)	8/62 (12.90%)	non significativo
<b>PIEGA FALCIFORME</b>	9/42 (21.42%)	8/62 (12.90%)	non significativo
<b>DISTACCO DI RETINA</b>	1/42 (2.38%)	1/62 (1.61%)	non significativo



# CASISTICA

## GENNAIO 1987 – FEBBRAIO 2011

### Follow-up 6 mesi – 20 anni

<b>PREMATURI VISITATI</b>	<b>3647</b>
<b>PREMATURI CON ROP TRATTATI</b>	<b>215</b>
<b>OCCHI TRATTATI</b>	<b>411 (19 MONOLATERALMENTE)</b>
<b>LASER A DIODI</b>	<b>310 (16 MONOLATERALMENTE)</b>
<b>CRIO</b>	<b>101 (3 MONOLATERALMENTE)</b>

**IV STADIO**      **42 OCCHI**

**AB ESTERNO: 11 OCCHI**

**VITRECTOMIA CON RISPARMIO DELLA LENTE: 12 OCCHI**

**AB ESTERNO + VITRECTOMIA: 19 OCCHI**

**V STADIO**

**9 OCCHI: VITRECTOMIA PARS PLICATA**

**3 OCCHI: OPEN SKY**

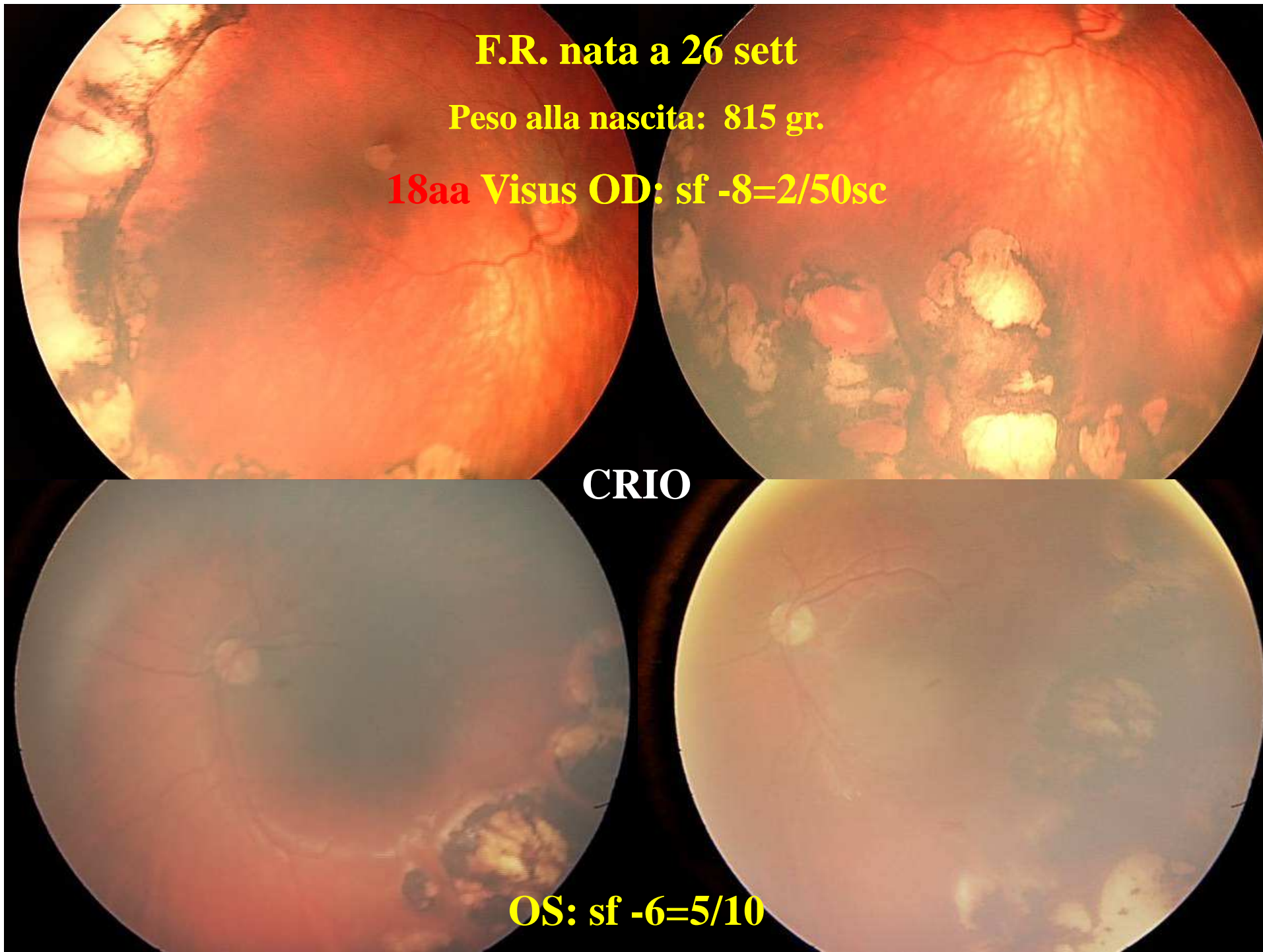
**F.R. nata a 26 sett**

**Peso alla nascita: 815 gr.**

**18aa Visus OD: sf -8=2/50sc**

**CRIO**

**OS: sf -6=5/10**





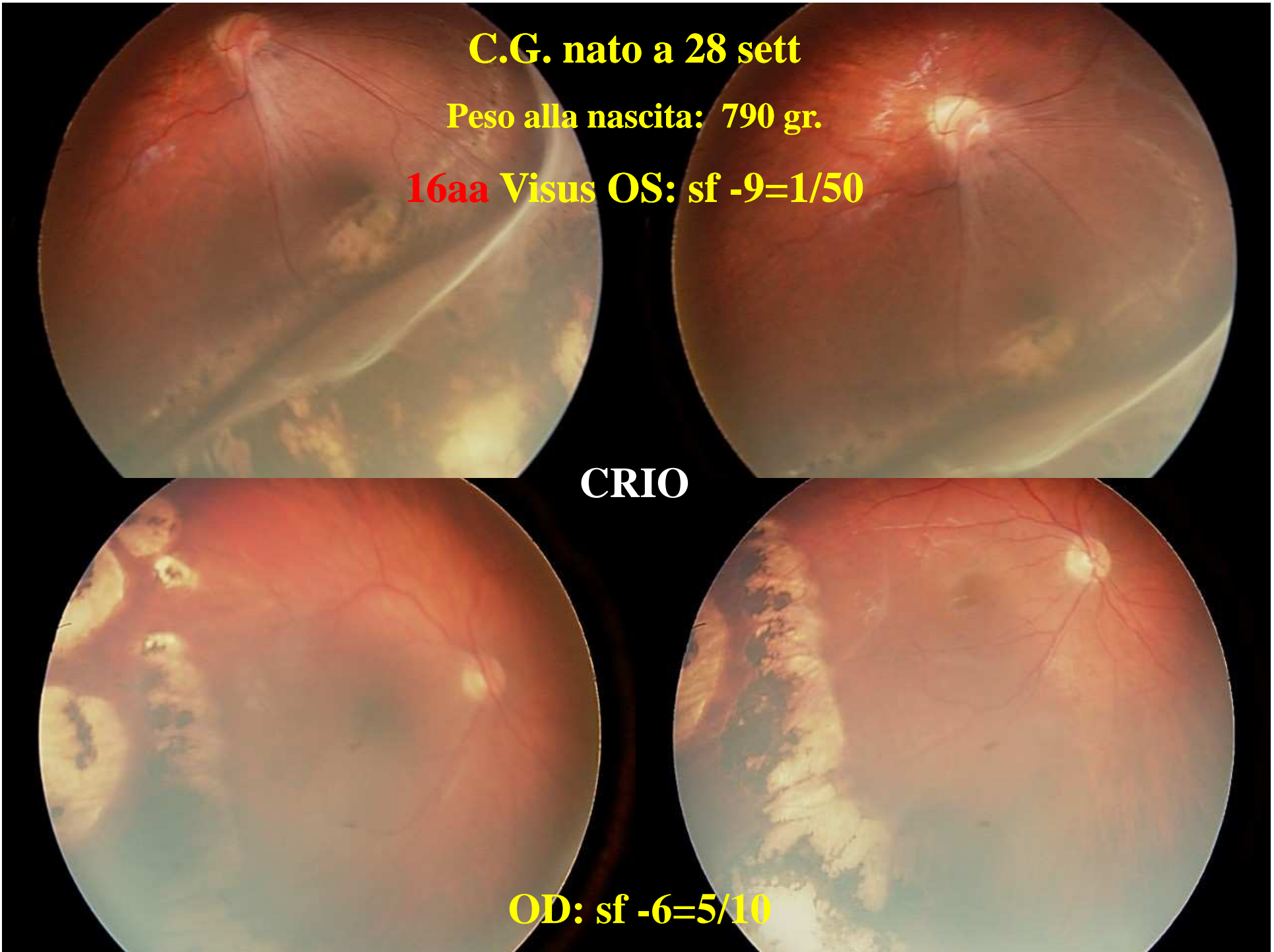
**C.G. nato a 28 sett**

**Peso alla nascita: 790 gr.**

**16aa Visus OS: sf -9=1/50**

**CRIO**

**OD: sf -6=5/10**

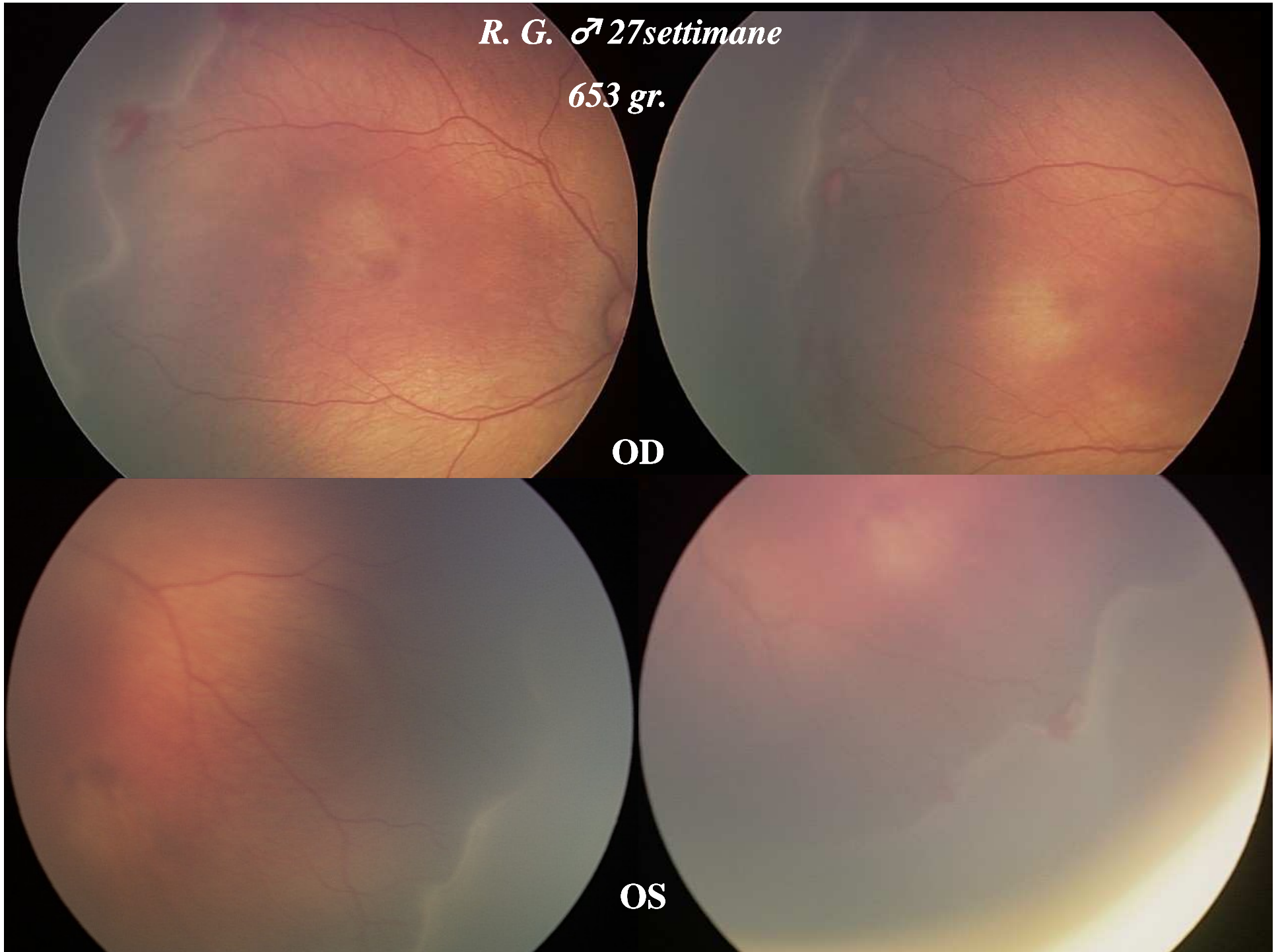


*R. G. ♂ 27settimane*

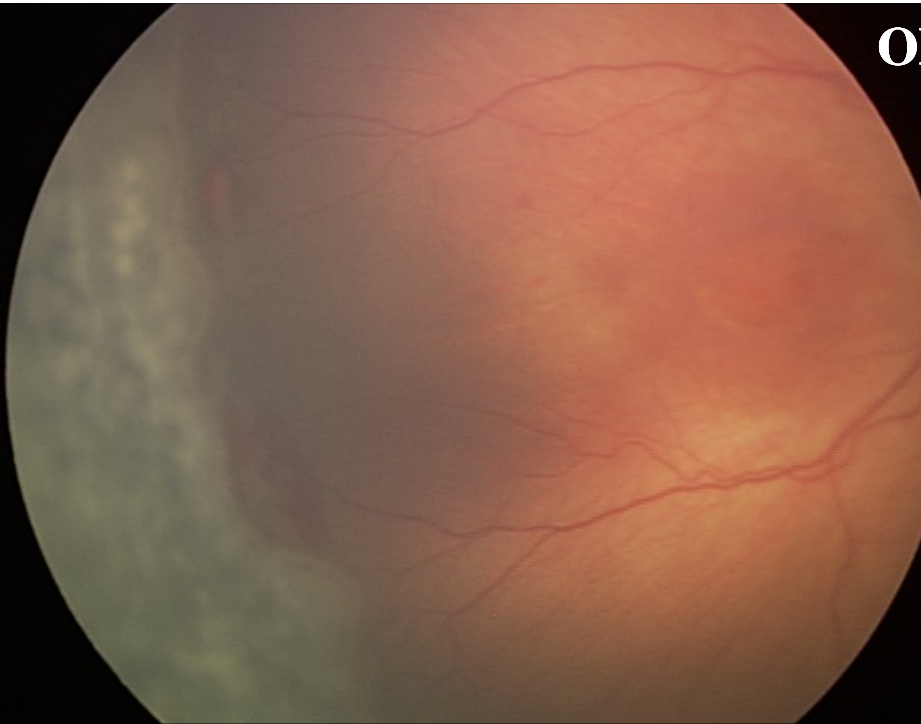
*653 gr.*

**OD**

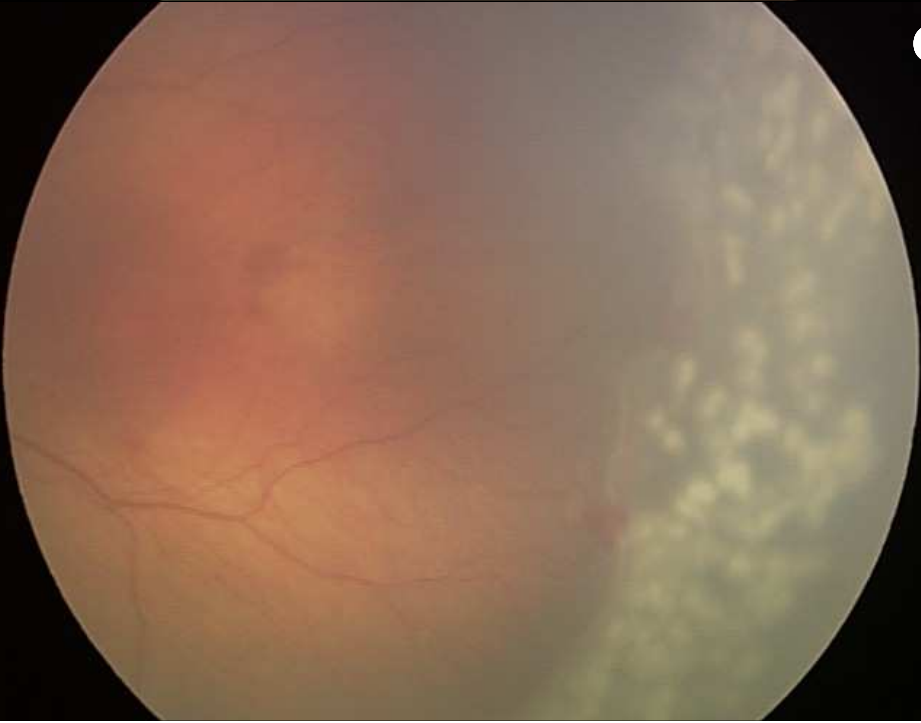
**OS**



**OD**



**OS**



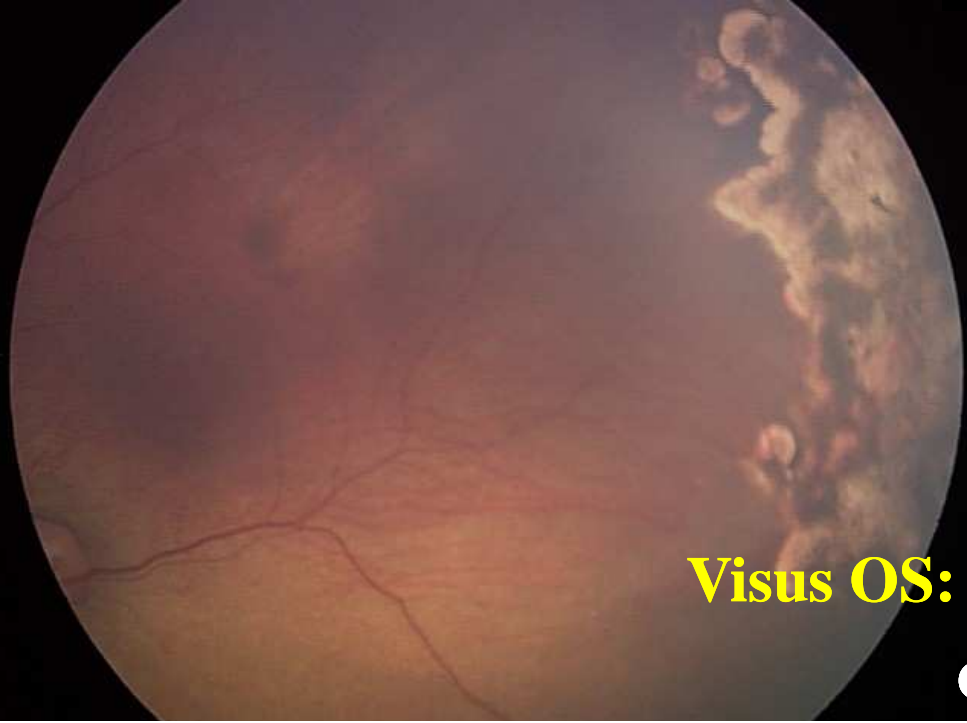
***A 2 giorni dal trattamento laser***



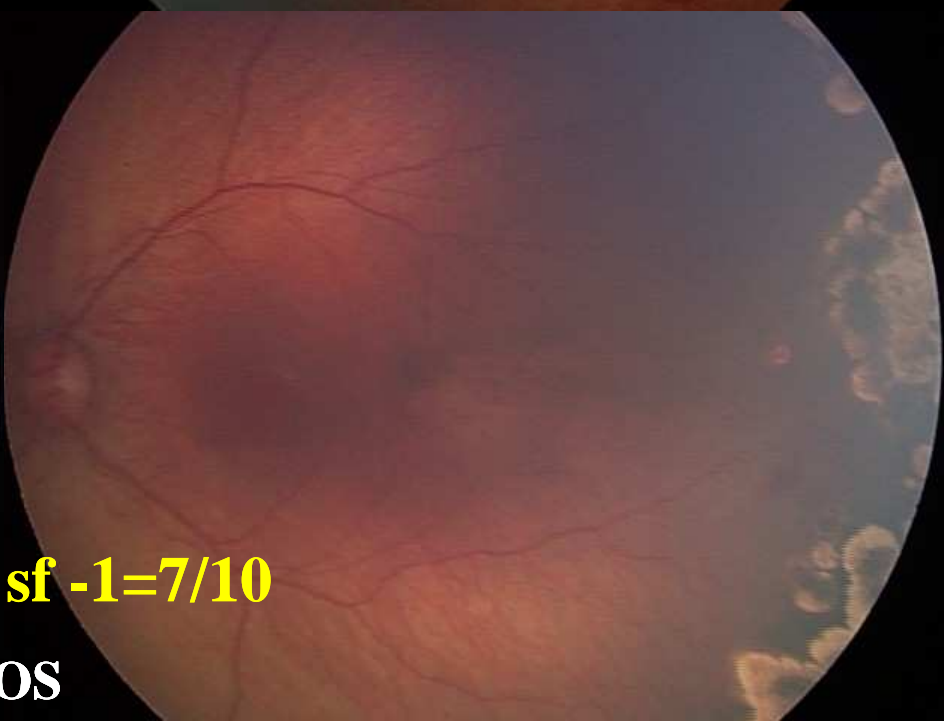
**7aa Visus OD: sf -2=5/10**



**OD**



**Visus OS: sf -1=7/10**



**OS**

*M. F. P. ♂ 26 settimane*

*762 gr.*

00:00:48.47

00:01:14.04





**5aa** Visus OD: sf +1 cyl +1  $\alpha$  90 = 6/10

OD

Visus OD: sf +1 cyl + 1,50  $\alpha$  90 = 7/10

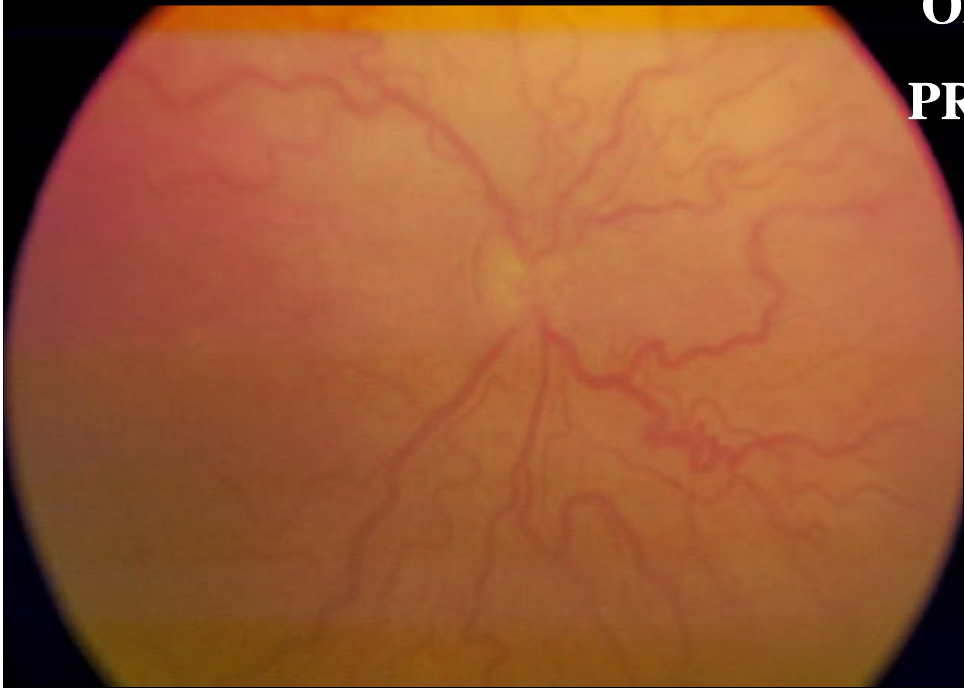
OS

**S.F. 24 settimane - 650 gr.**

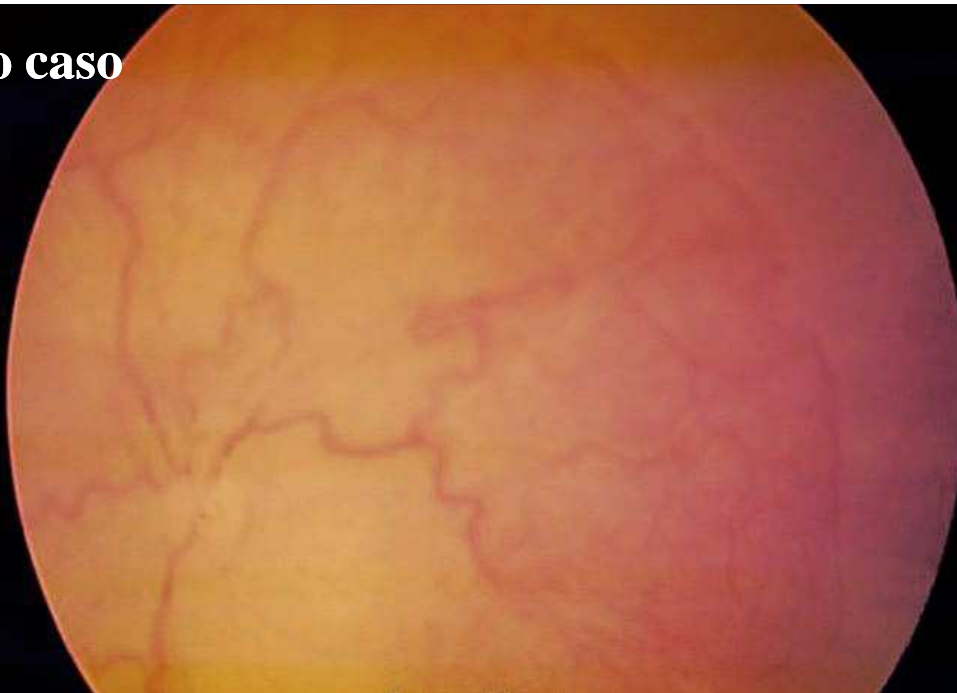
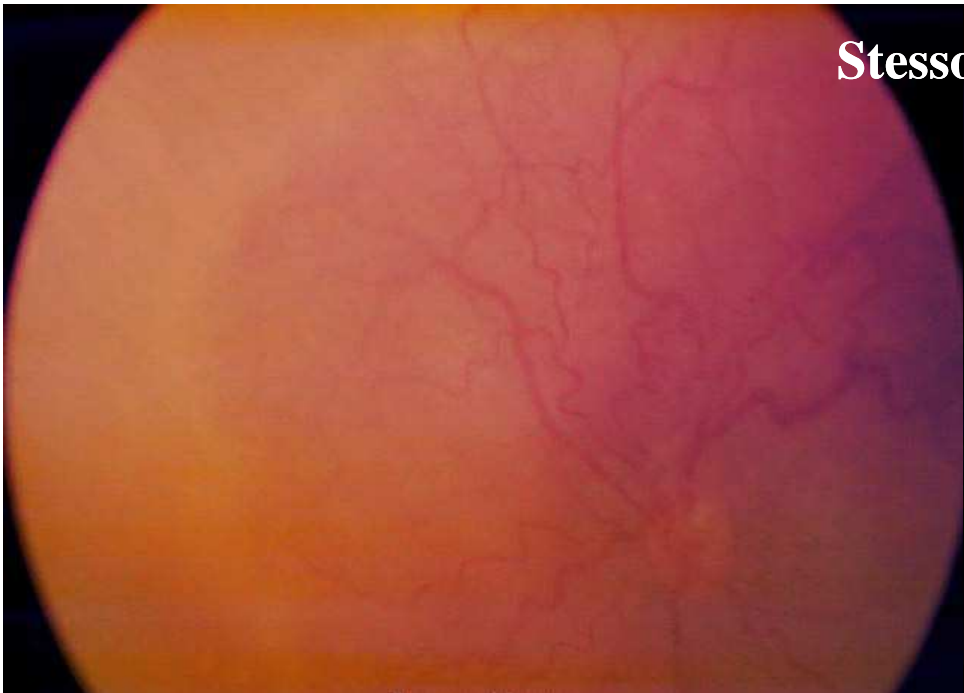


**OD**

**PRE**

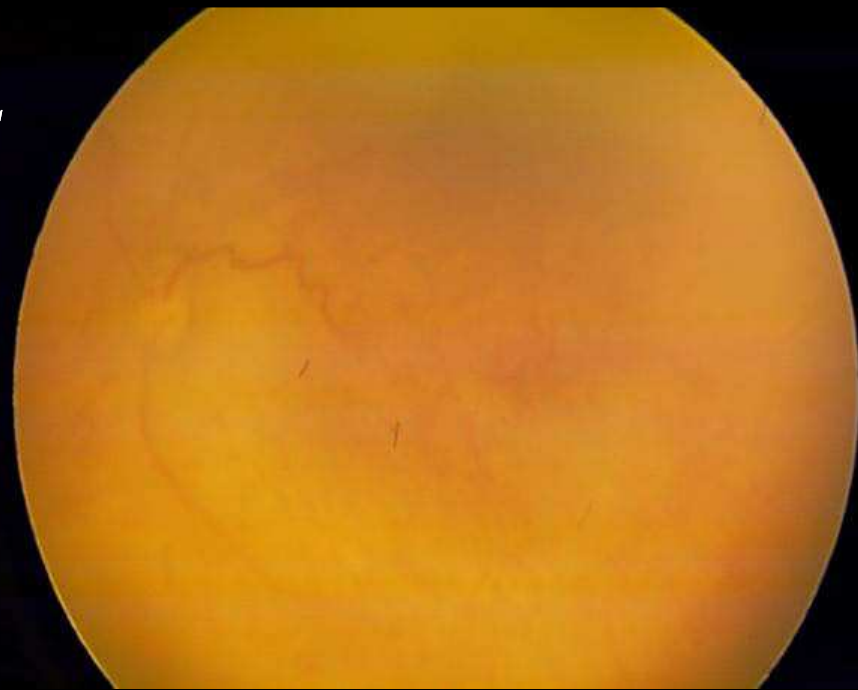
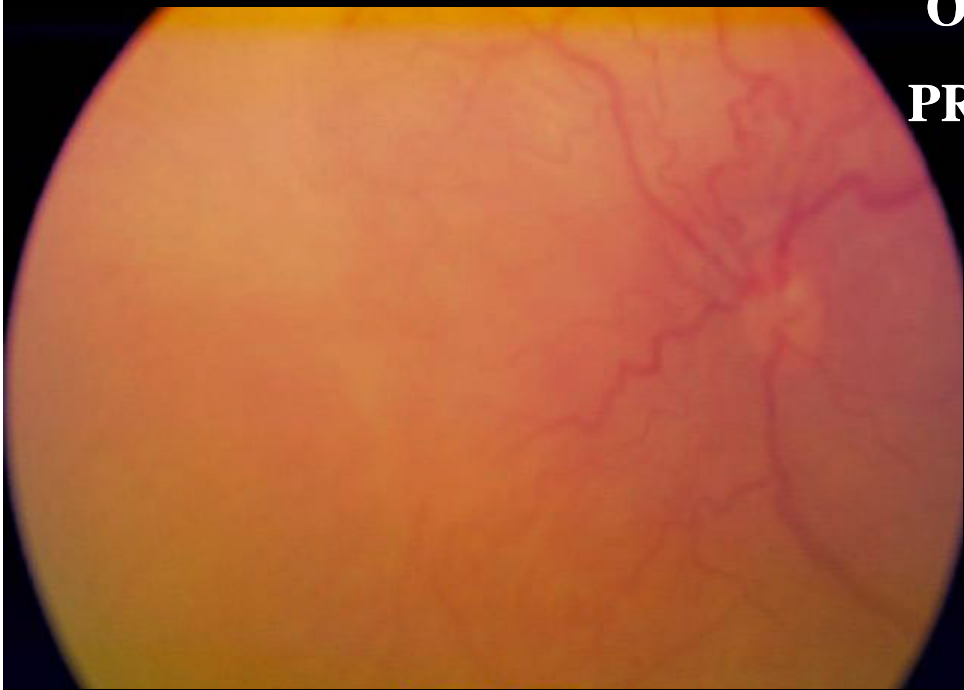


**Stesso caso**

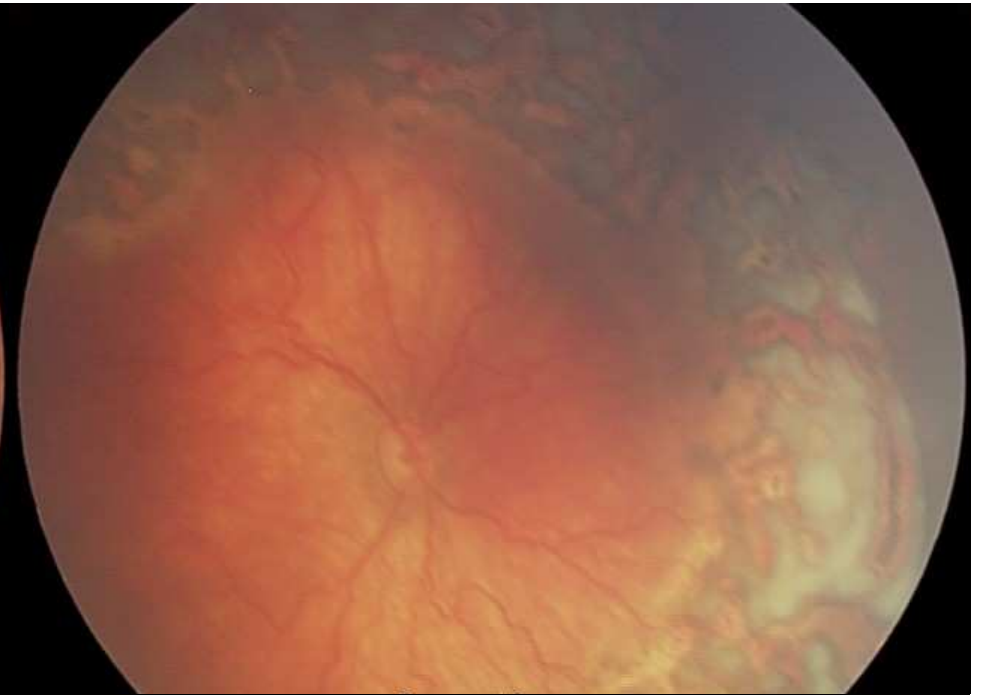
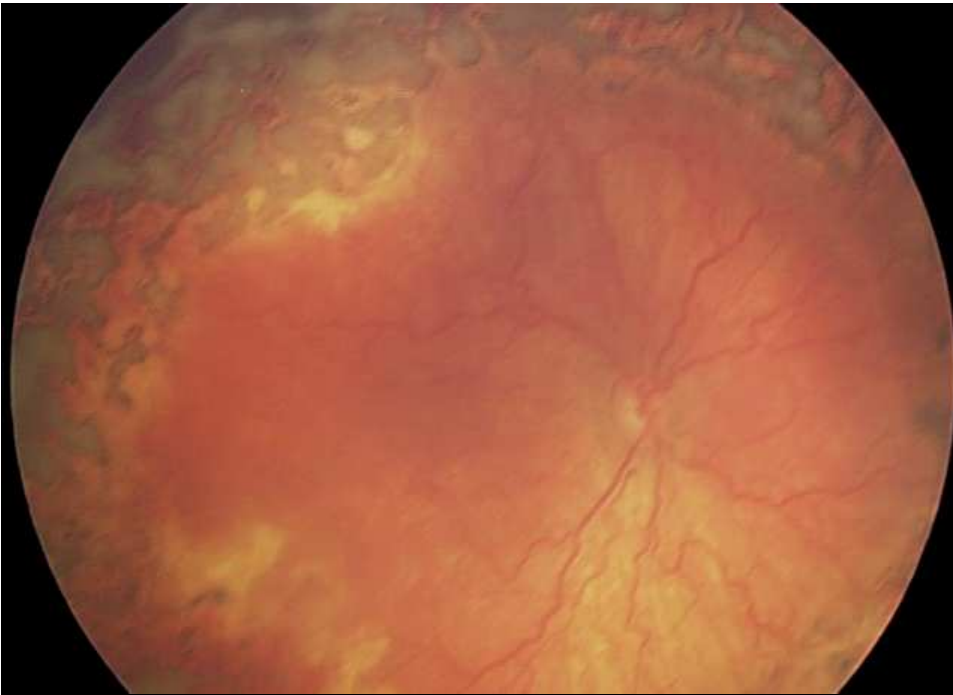


**OS**

**PRE**

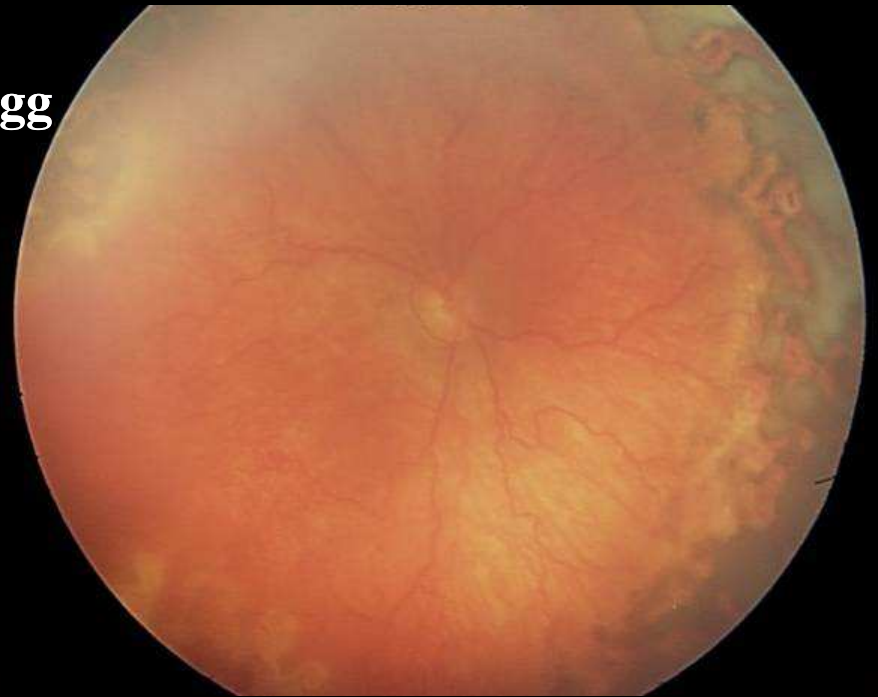




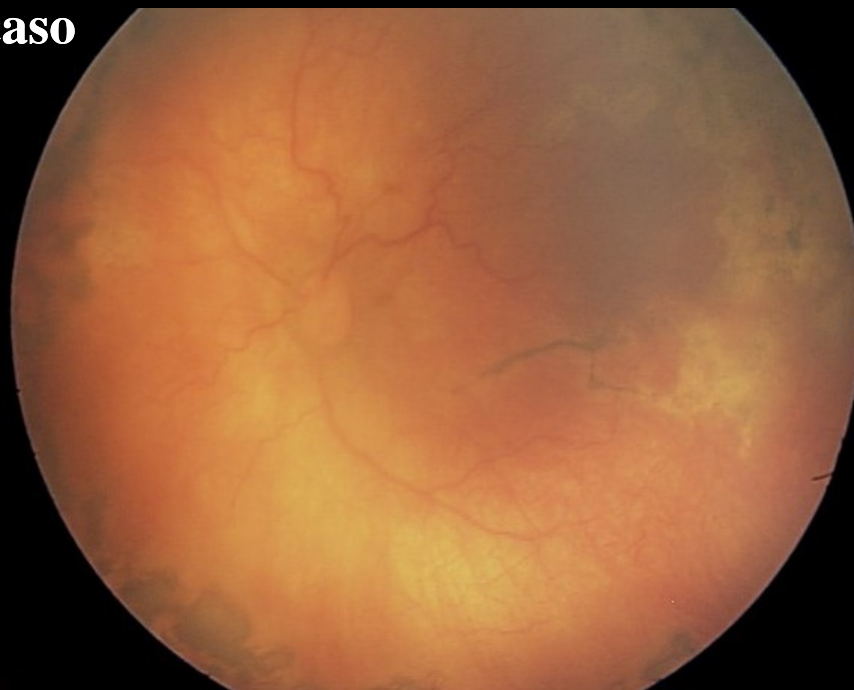
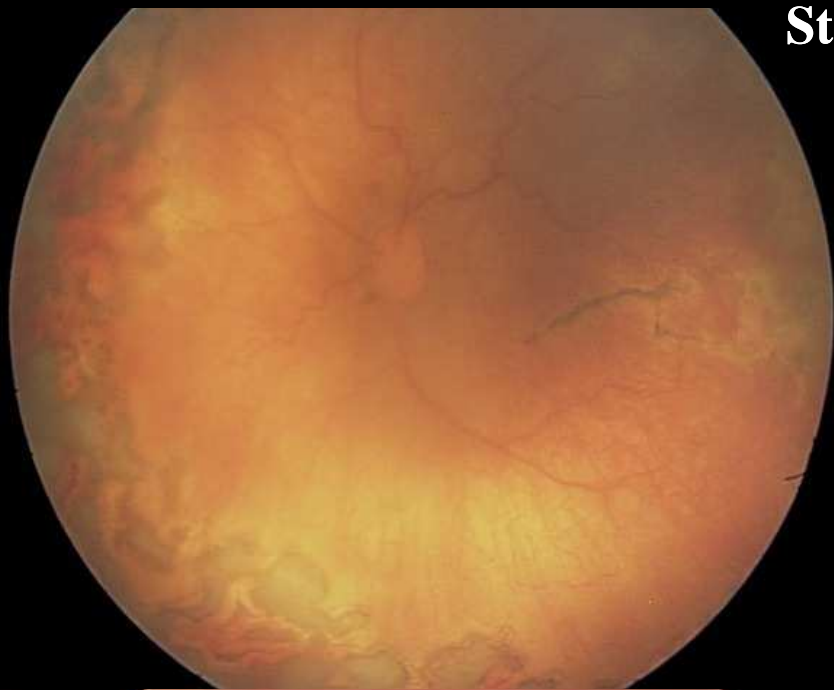


**OD**

**Post 7 gg**

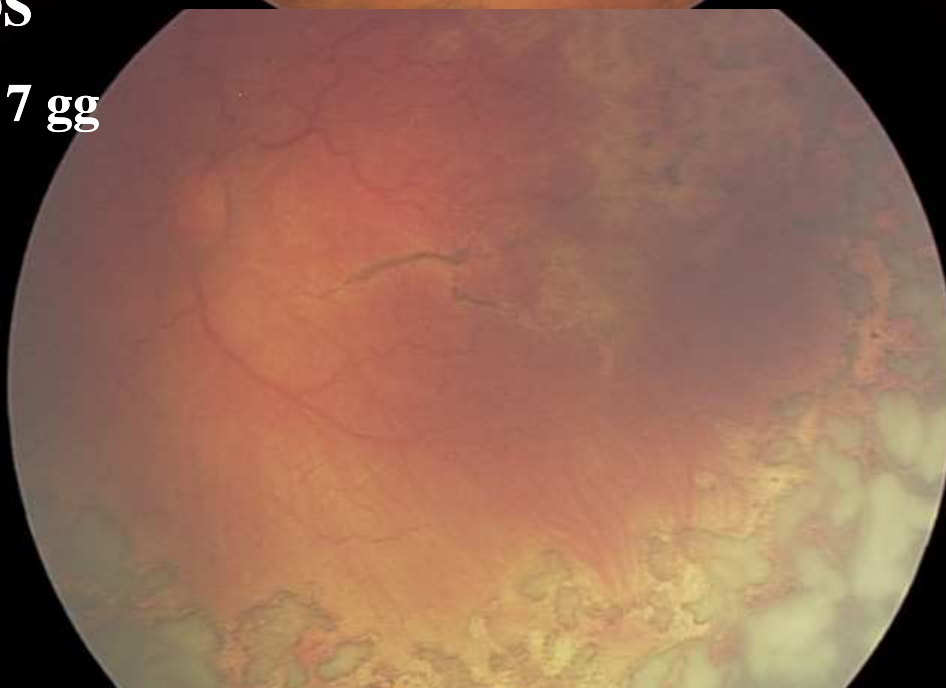
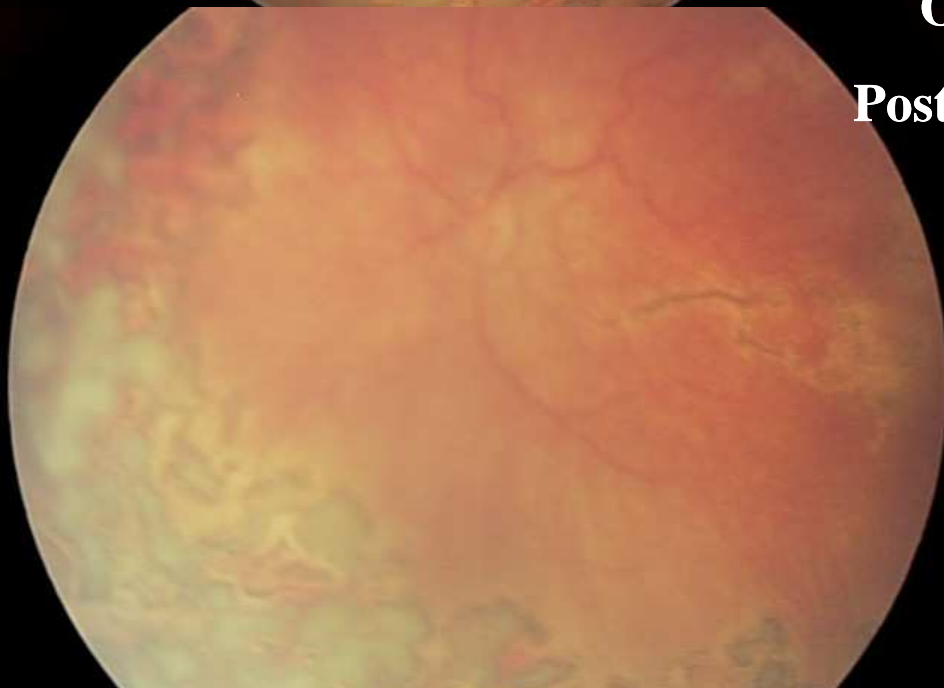


**Stesso caso**



**OS**

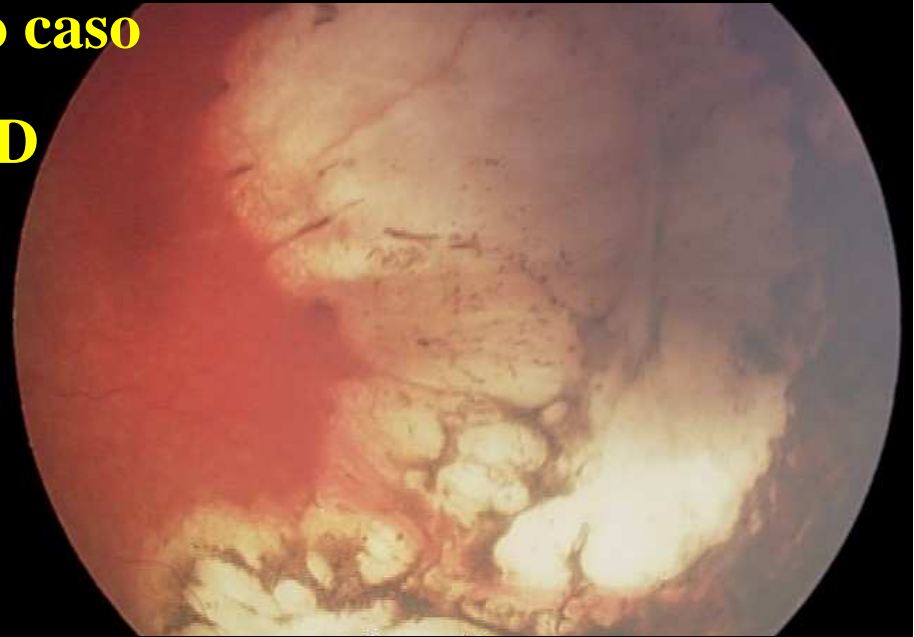
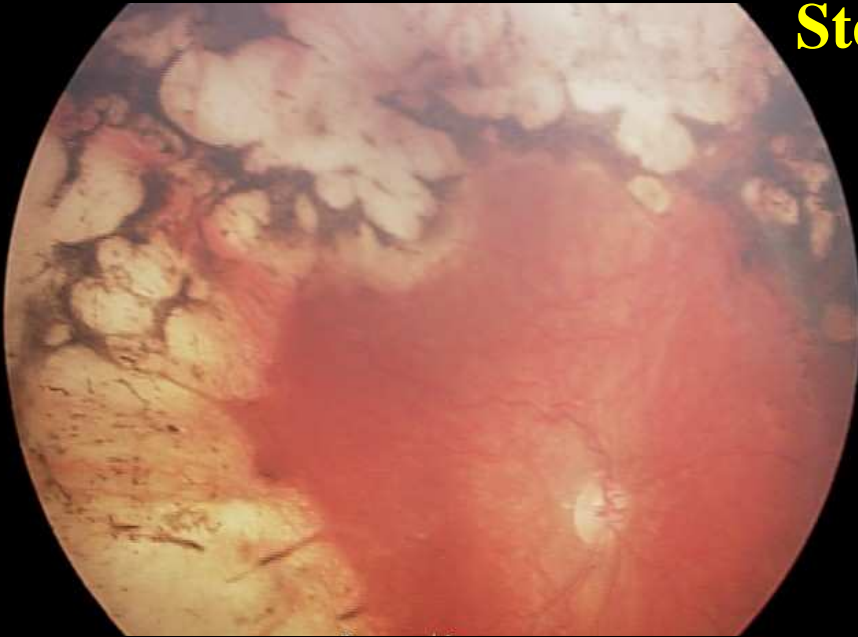
**Post 7 gg**



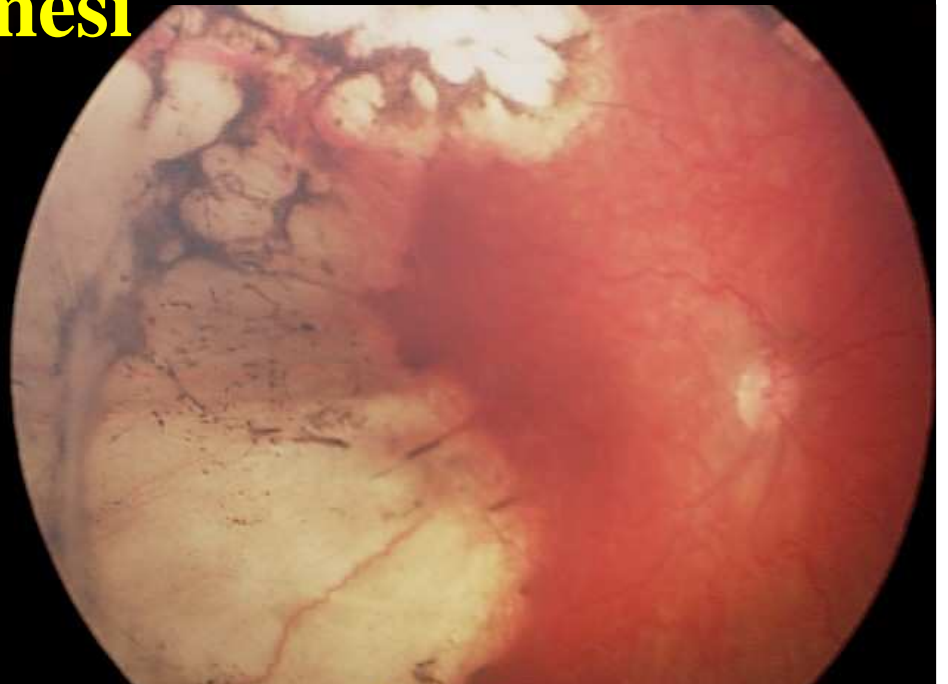
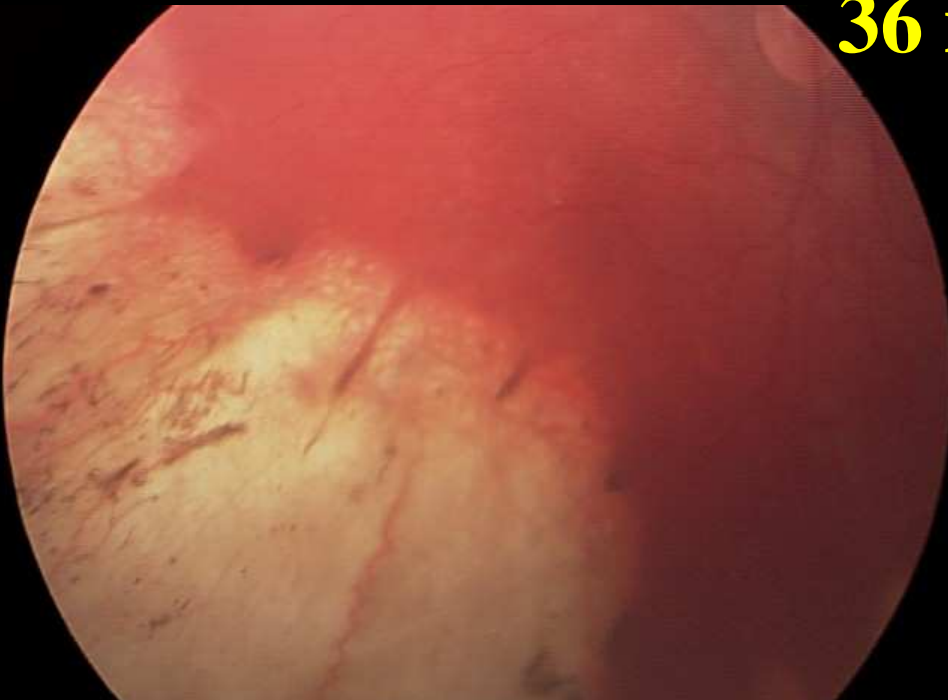


**Stesso caso**

**OD**

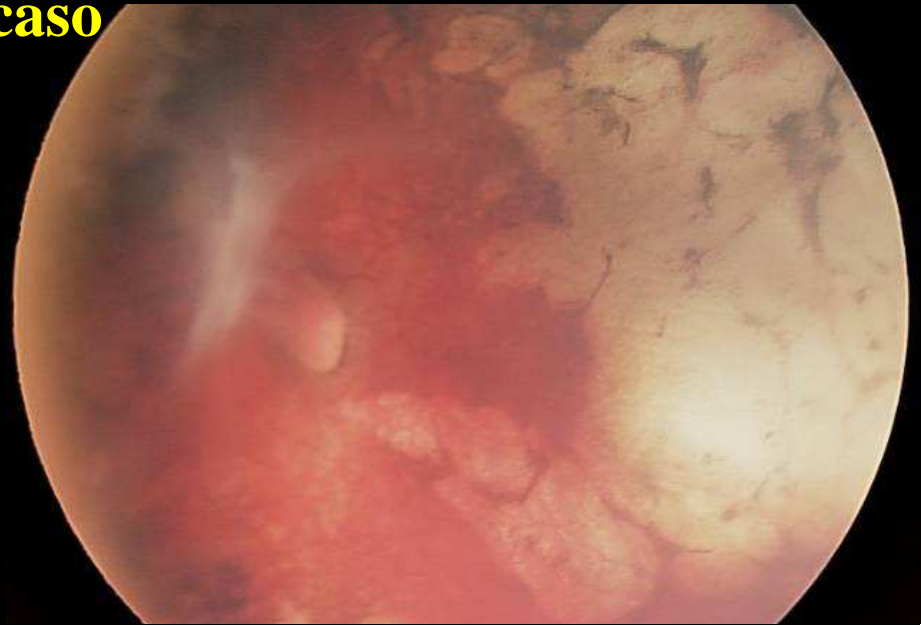


**36 mesi**

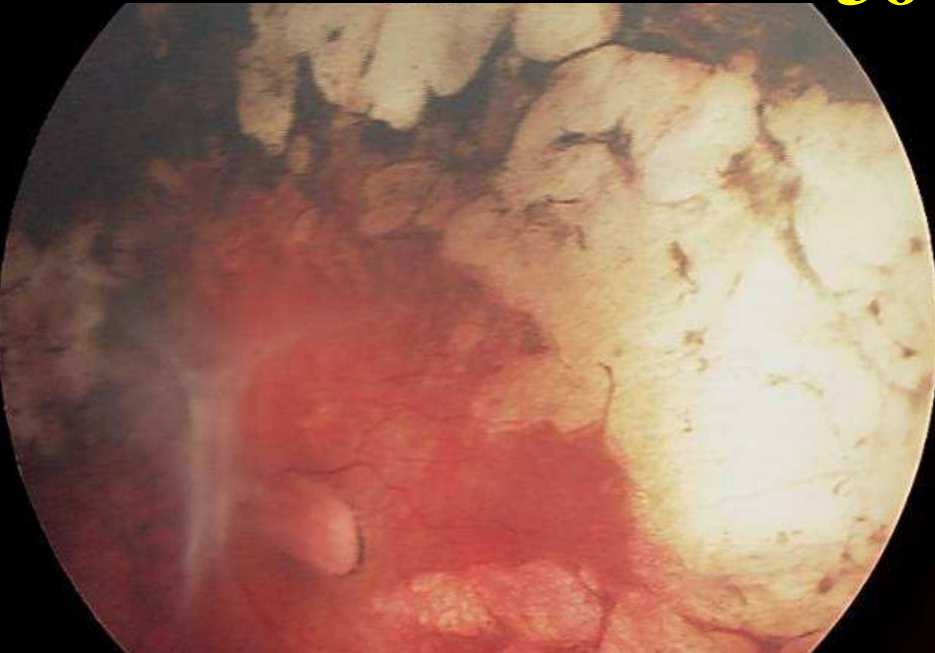


**Stesso caso**

**OS**

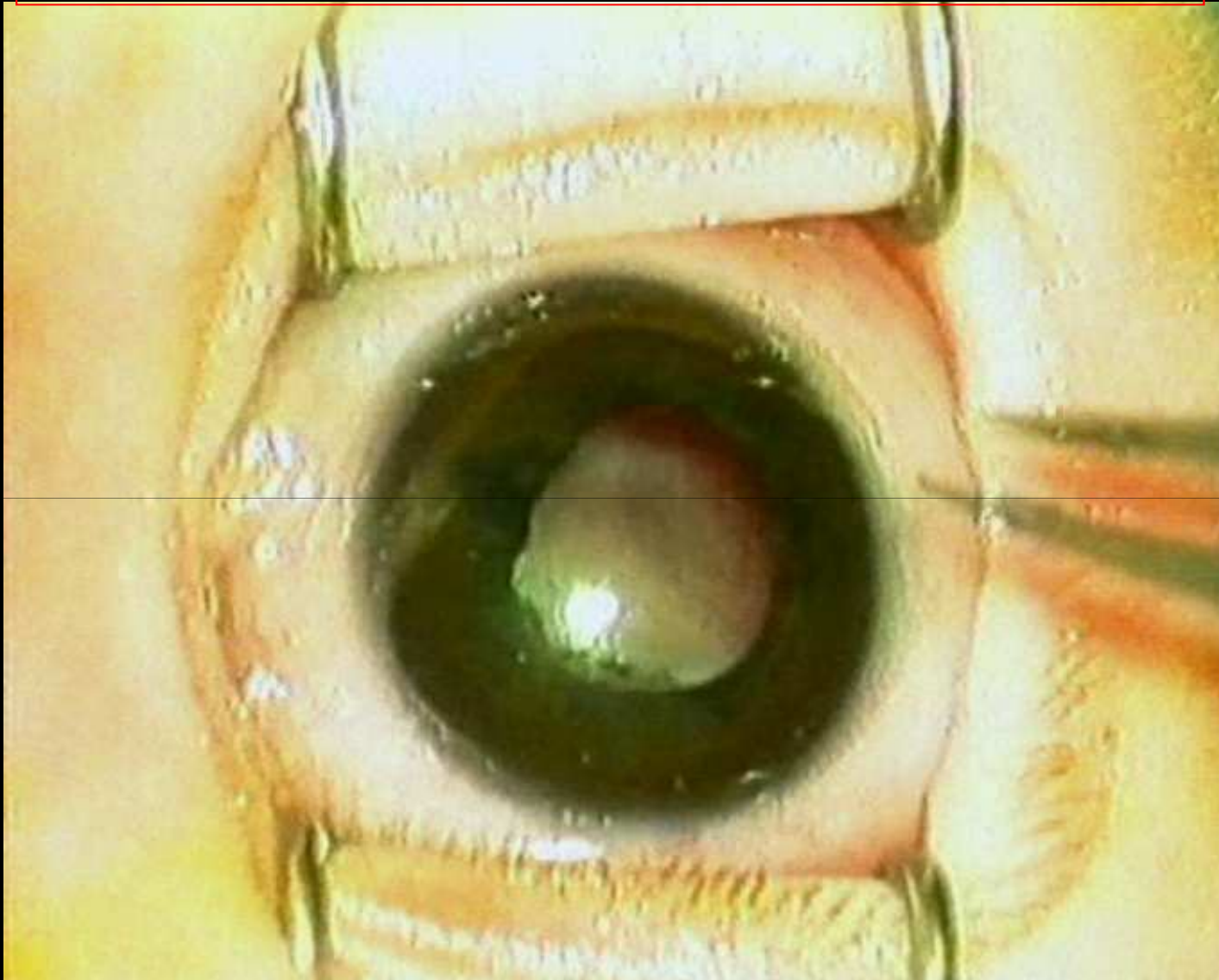


**36 mesi**





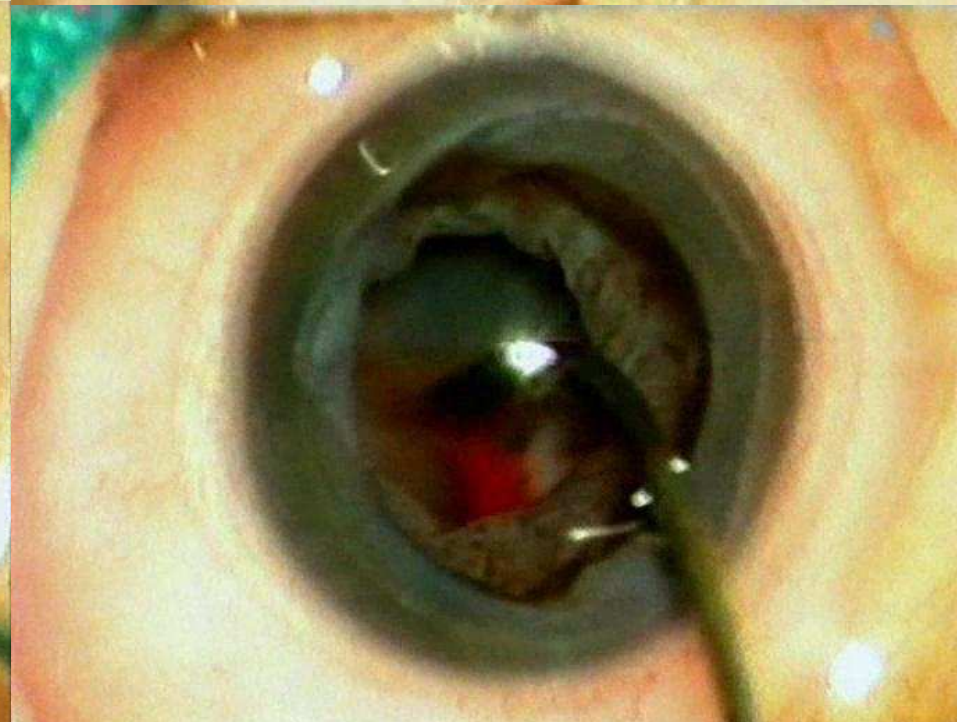
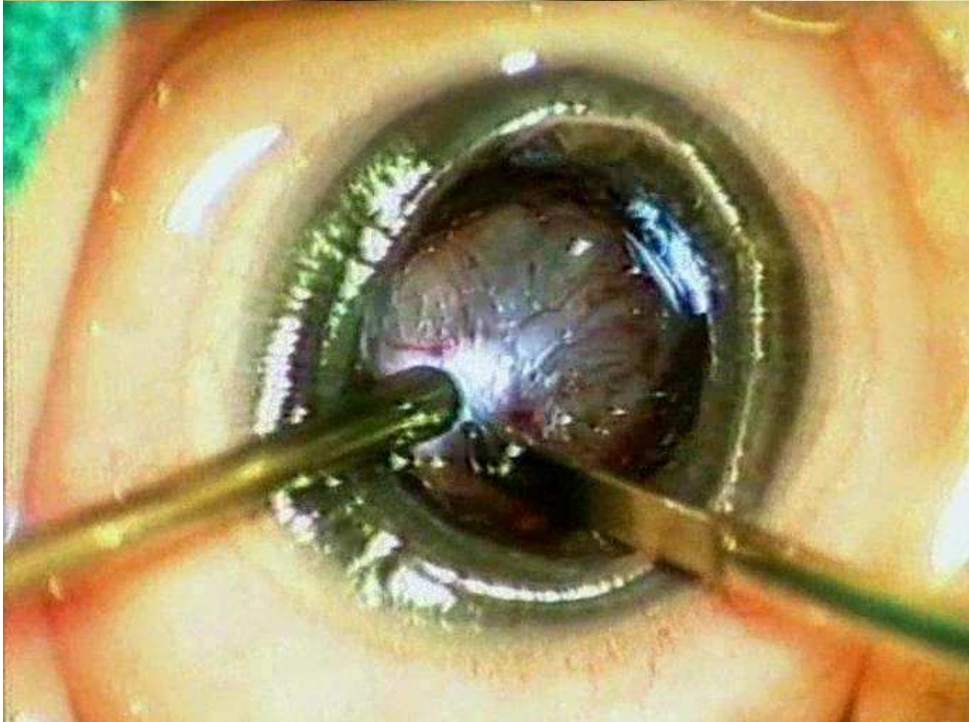
**G.K. 5 mesi ♀ ROP V STADIO**



**VITRECTOMIA OPEN - SKY**

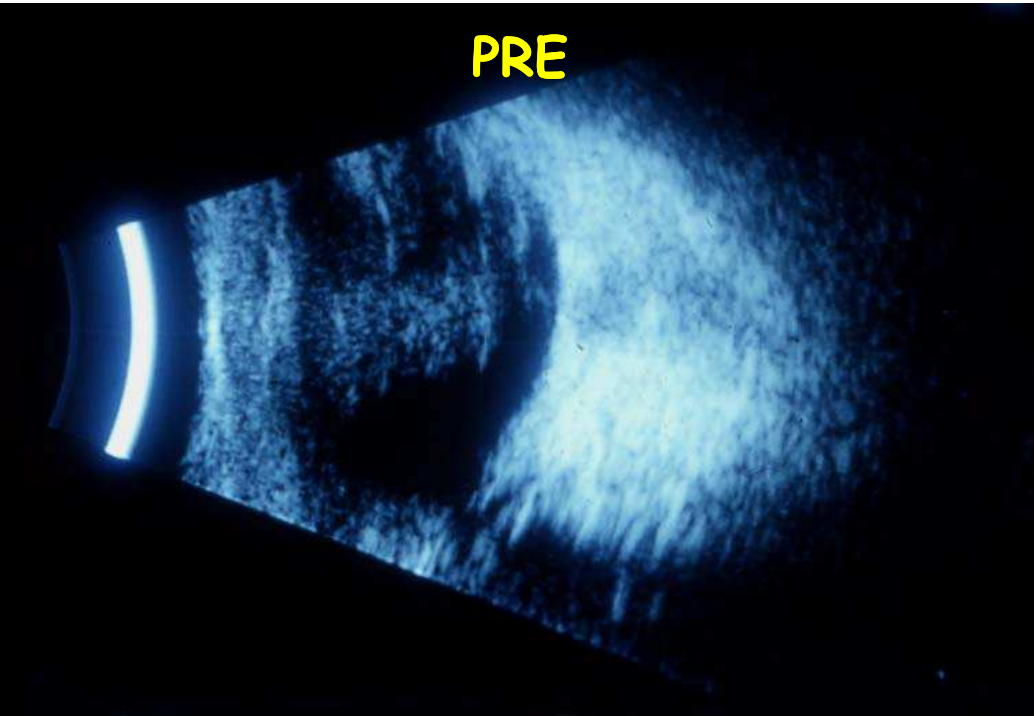


# VITRECTOMIA OPEN SKY

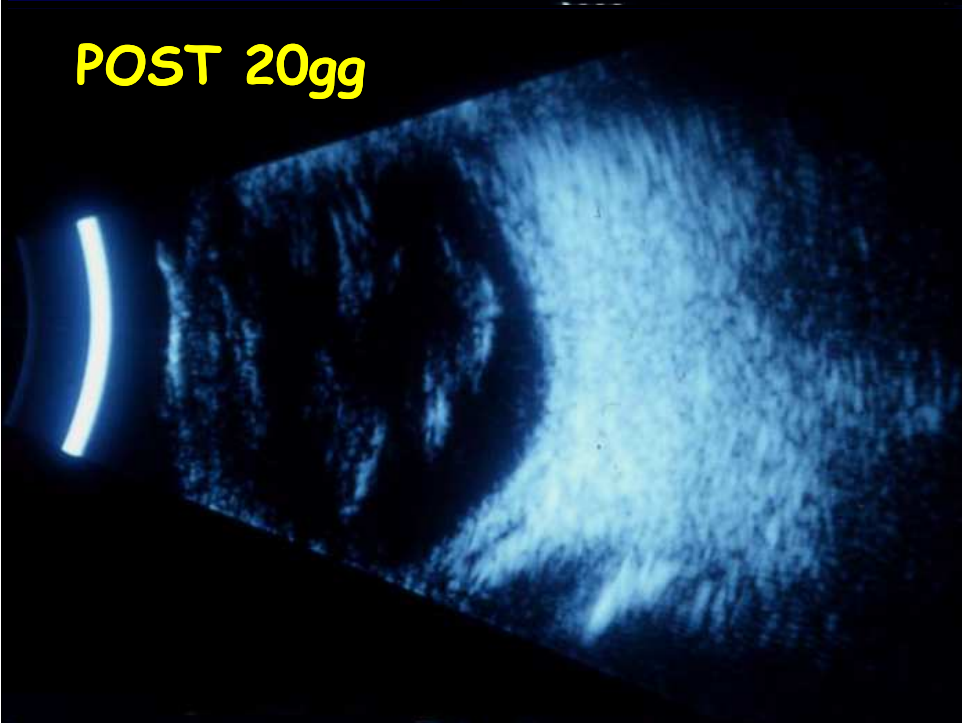




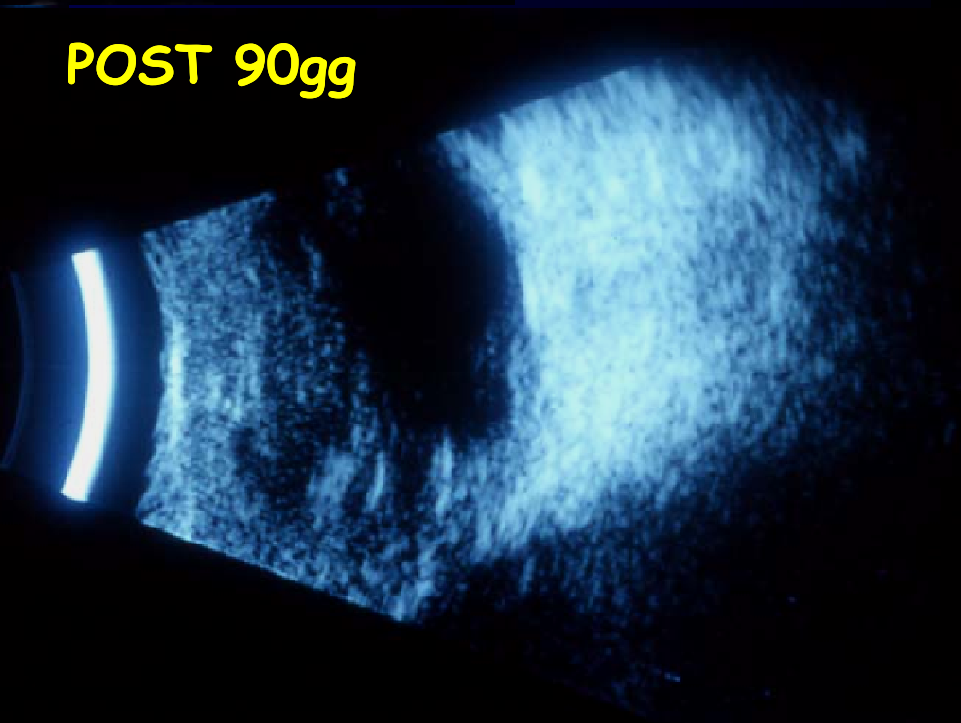
PRE



POST 20gg

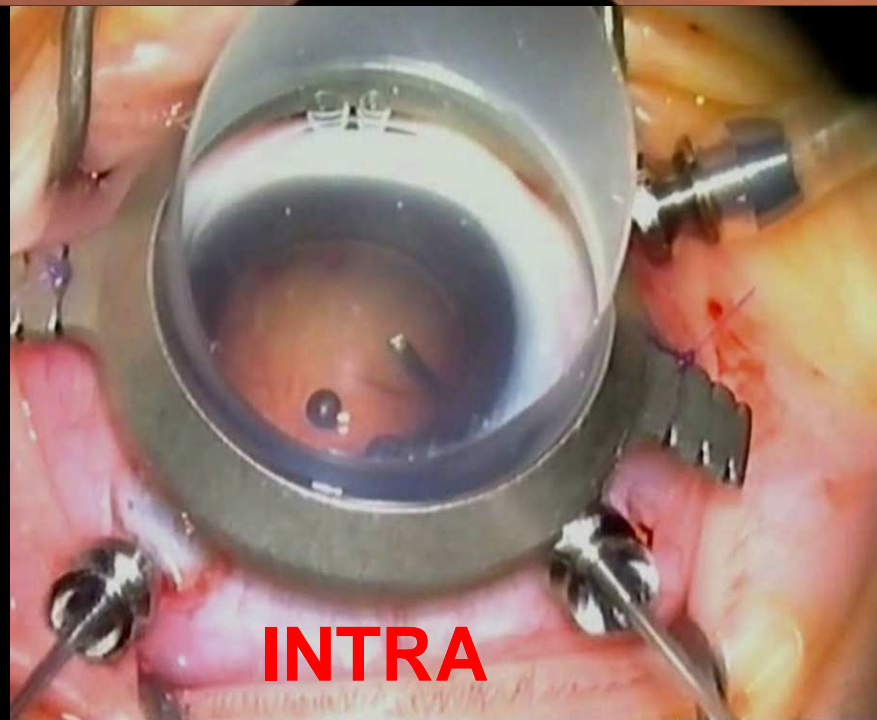
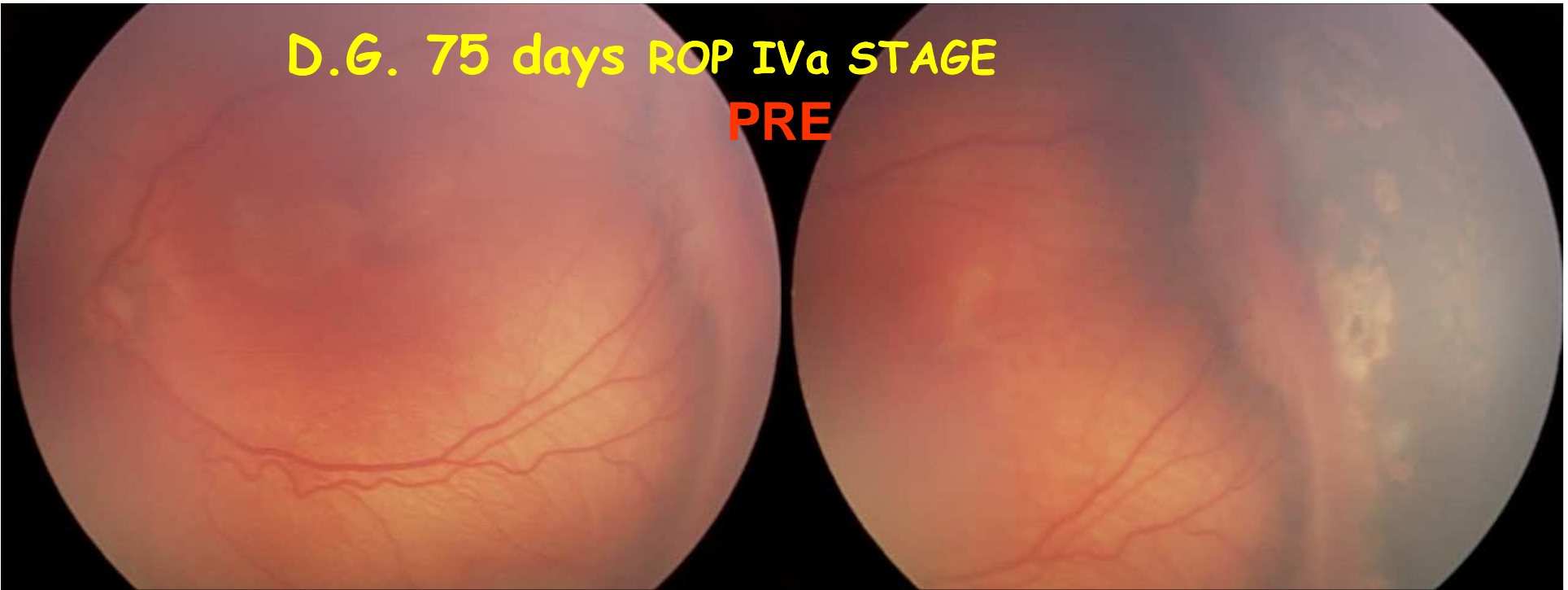


POST 90gg



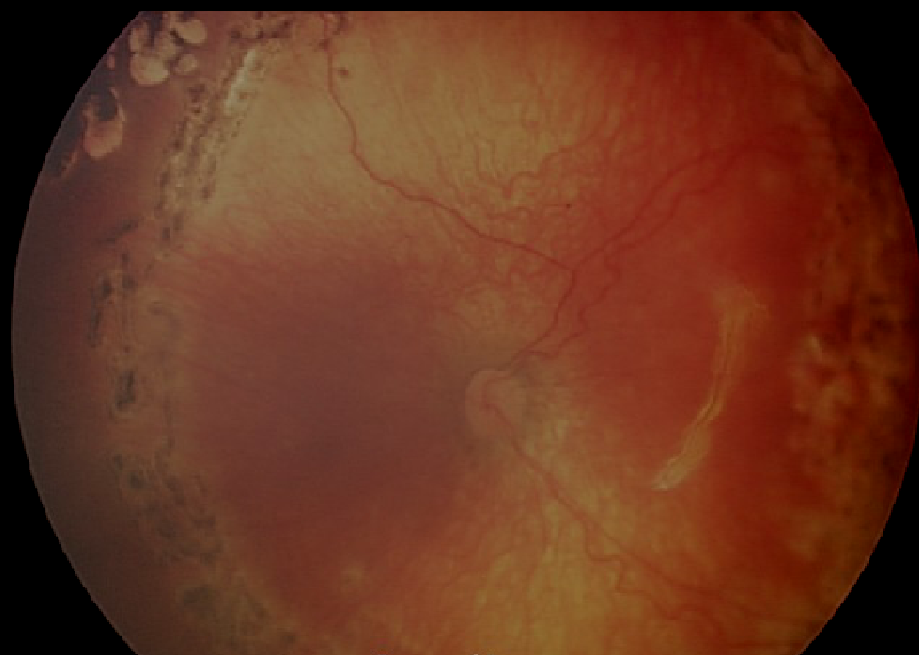
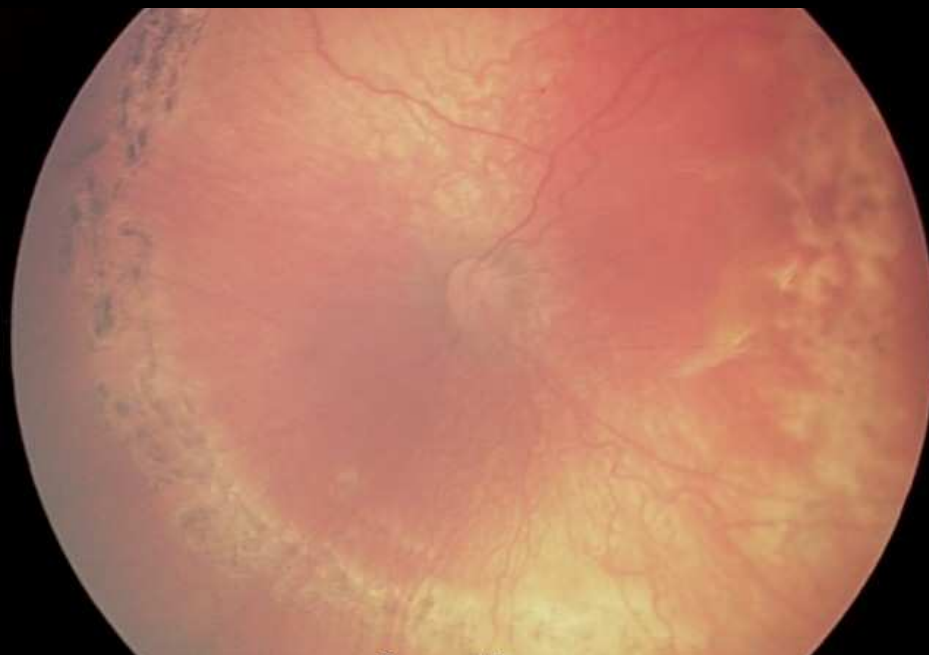
D.G. 75 days ROP IVa STAGE

PRE



INTRA

**POST 4 MESI:**



**POST 4 ANNI:**

