



Ecografia Oculare:  
Attualità nonostante gli OCT

**Nicola Rosa**

Direttore Cattedra di Malattie dell'Apparato Visivo

Università di Salerno

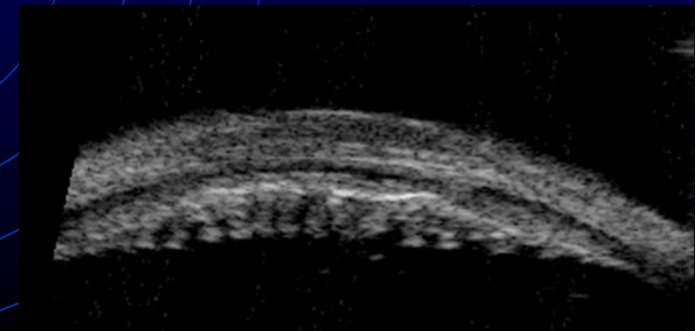
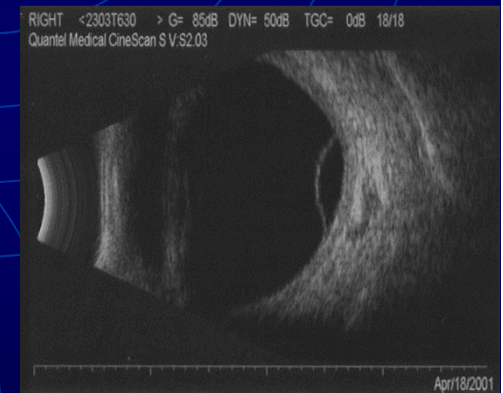
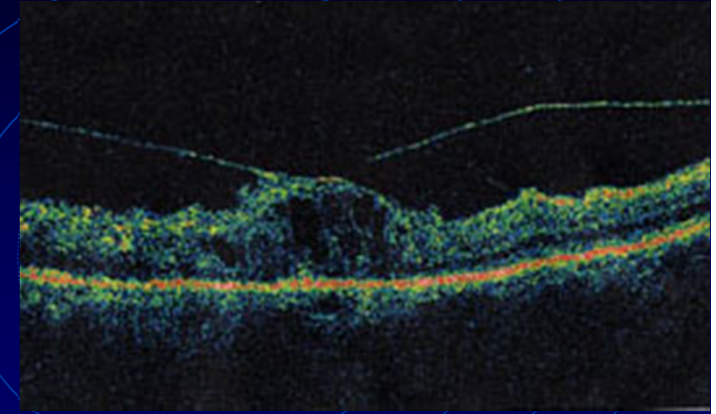
# RISOLUZIONE

**OCT: 12 micron**

**Eco:**

**150 micron**

**50 micron**







# **INDICAZIONI OCT**

**Mezzi diottrici trasparenti**

# **INDICAZIONI DELL' ECOGRAFIA**

## **Mezzi diottrici opachi**

**Mezzi diottrici trasparenti**

# **MEZZI DIOTTRICI OPACHI**

**Neoformazioni**

**Distacco di retina**

**Lacerazioni**

**Maculopatie**

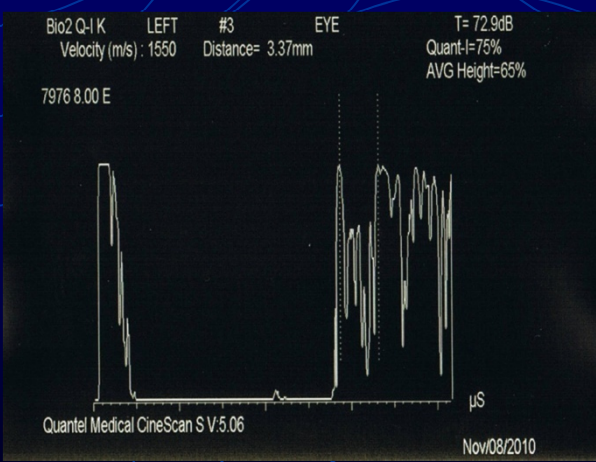
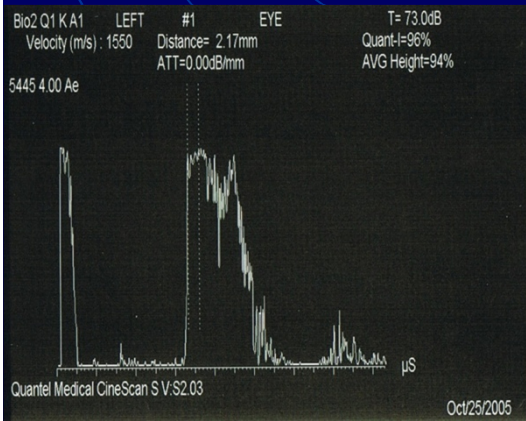
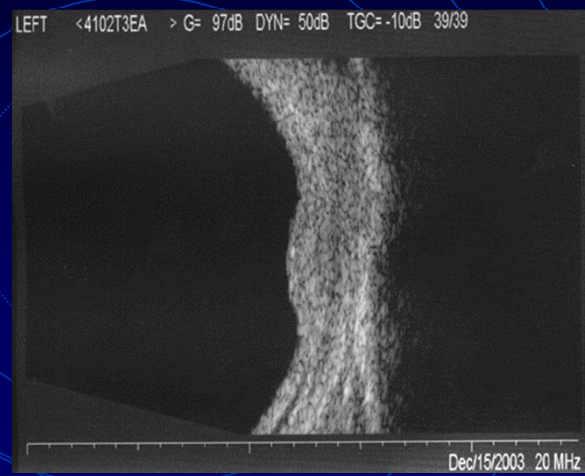
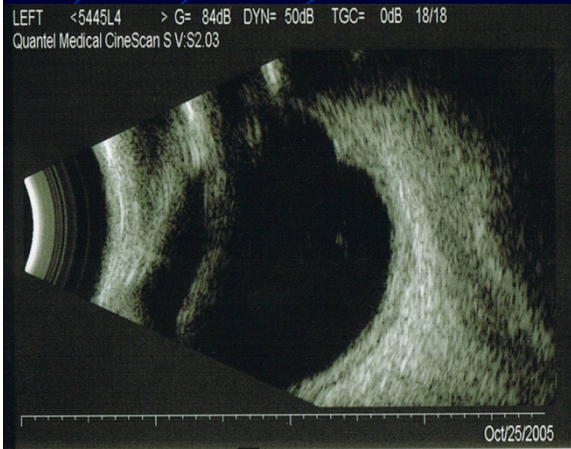
# MEZZI DIOTTRICI OPACHI

**Neoformazioni**

**Distacco di retina**

**Lacerazioni**

**Maculopatie**





# MEZZI DIOTTRICI OPACHI

Neoformazioni

**Distacco di retina**

Lacerazioni

Maculopatie

The background is a dark blue gradient with several overlapping, concentric circles in a lighter blue color. The text is centered and arranged vertically.

**PRE OPERATORIO**

**DIAGNOSTICARE**

**STADIARE**

13882 OS HAX

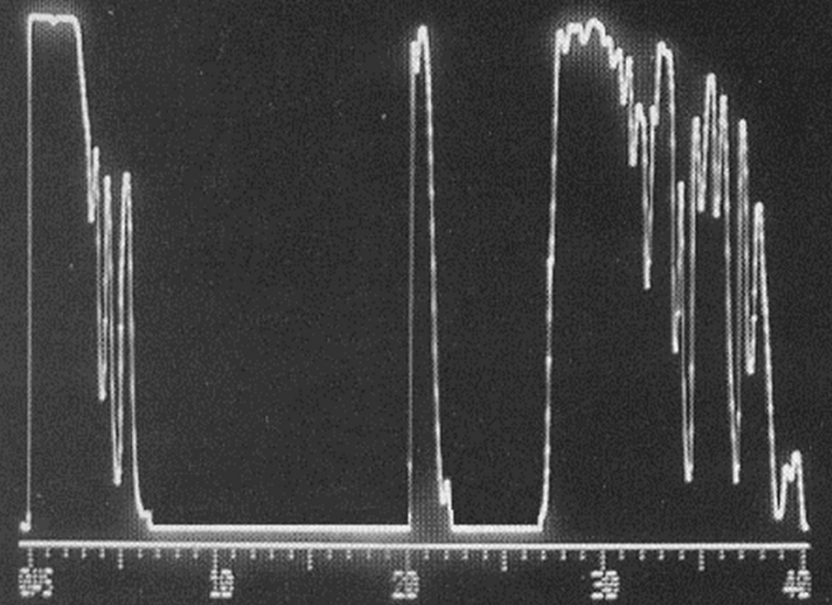


C-90 A-22 N-51 Date 01-12-93 15H

EYE

G=66.5dB

10879 OS 8.00 EA  
NOV/20/90



# A-SCAN

**A1: PICCO MASSIMALE A  
RISALITA RIPIDA**

**A2: AUMENTO ALTEZZA IN  
PERIFERIA**

**A3: MOBILITA'**

**A4: ECOGRAFIA  
QUANTITATIVA**

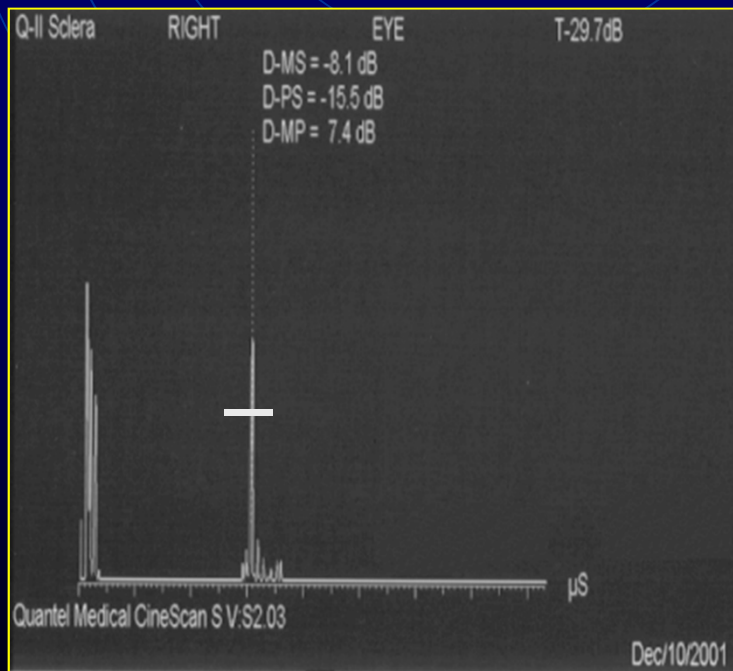
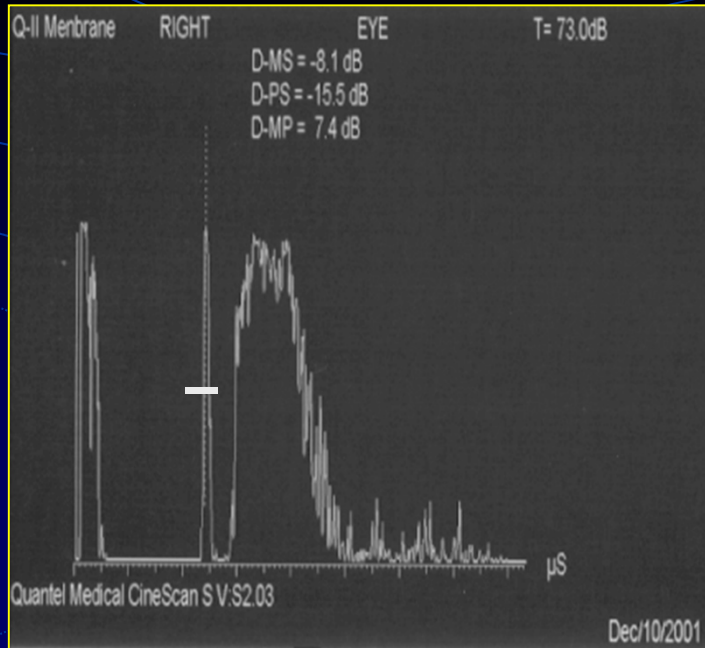
# B-SCAN

**B1: FORMA**

**B2: PIEGHE**

**B3: INSERZIONE AL  
DISCO**

**B4: CONTINUITA'**

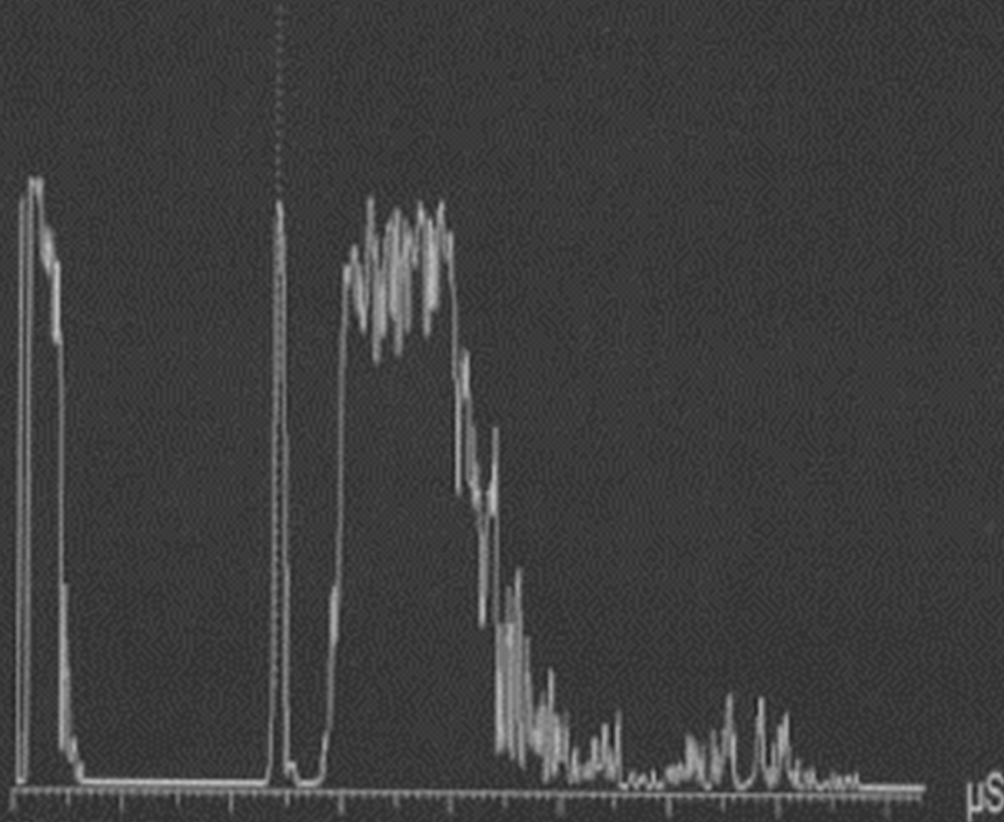


RIGHT

EYE

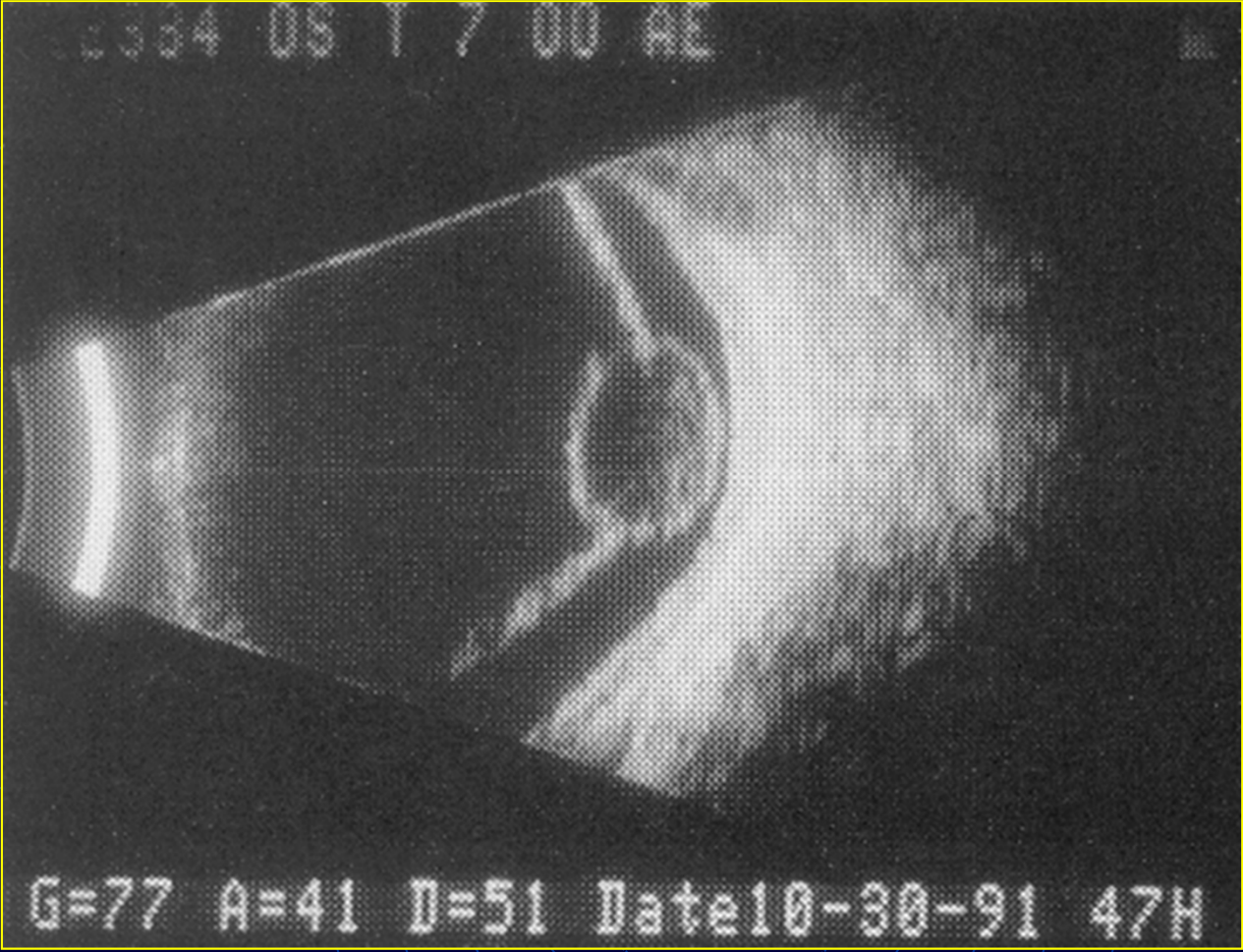
T= 73.0dB

Diagnostic Support Information : Retina ++ (>98% 1)



Quantel Medical CineScan S V: S2.03 .

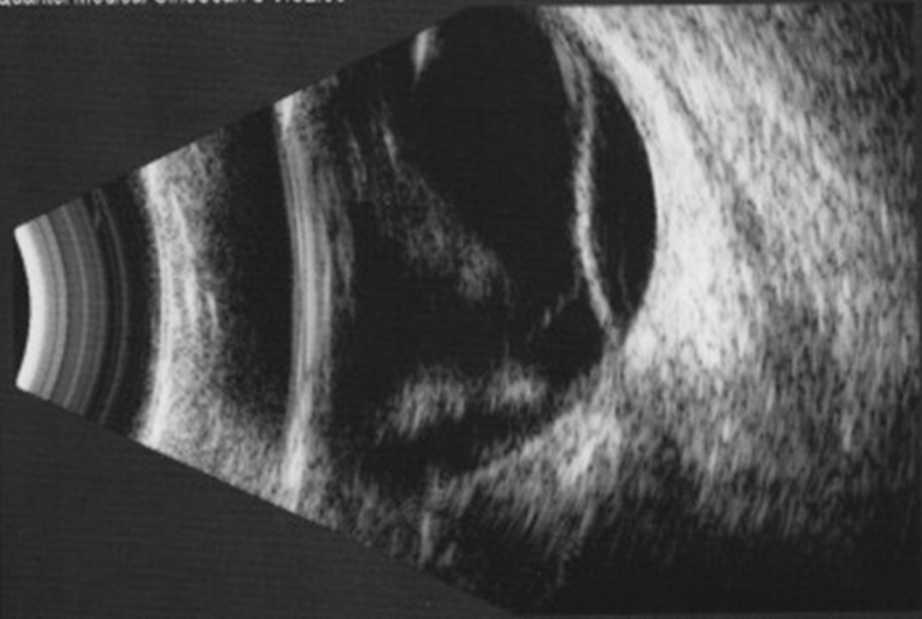
Dec/10/2001



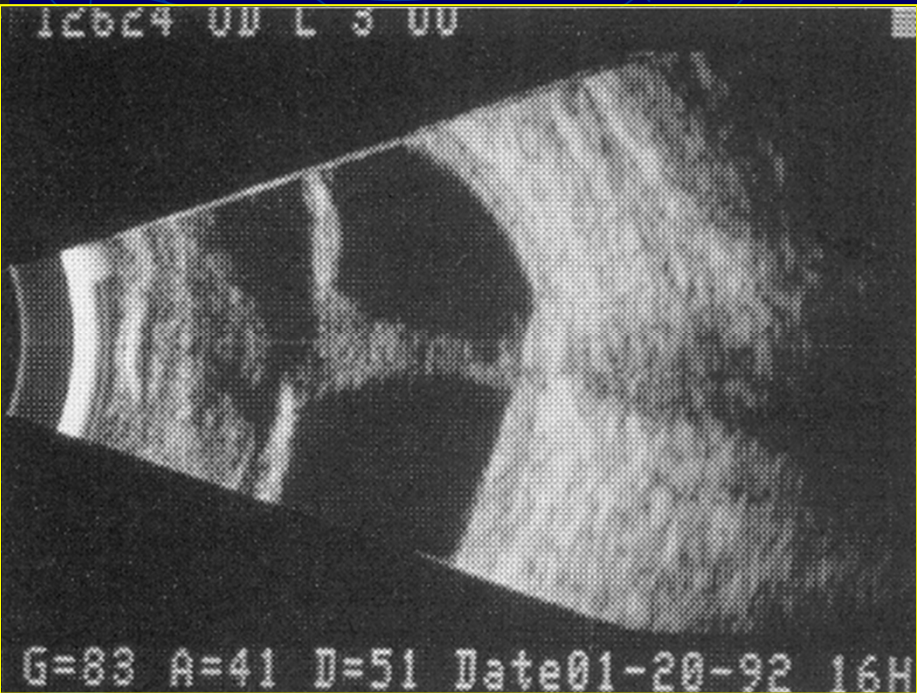
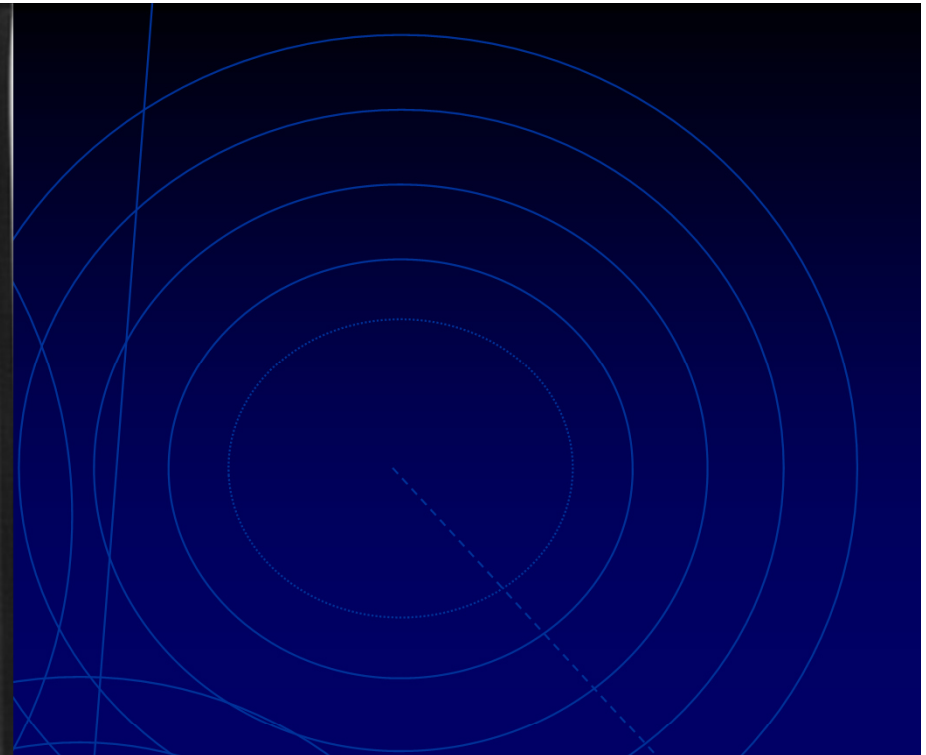
3364 US T 7 00 AE

G=77 A=41 D=51 Date10-30-91 47H

LEFT <3144L9 > G= 86dB DYN= 50dB TGC= 0dB 18/18  
Quantel Medical CineScan S V:S2.03



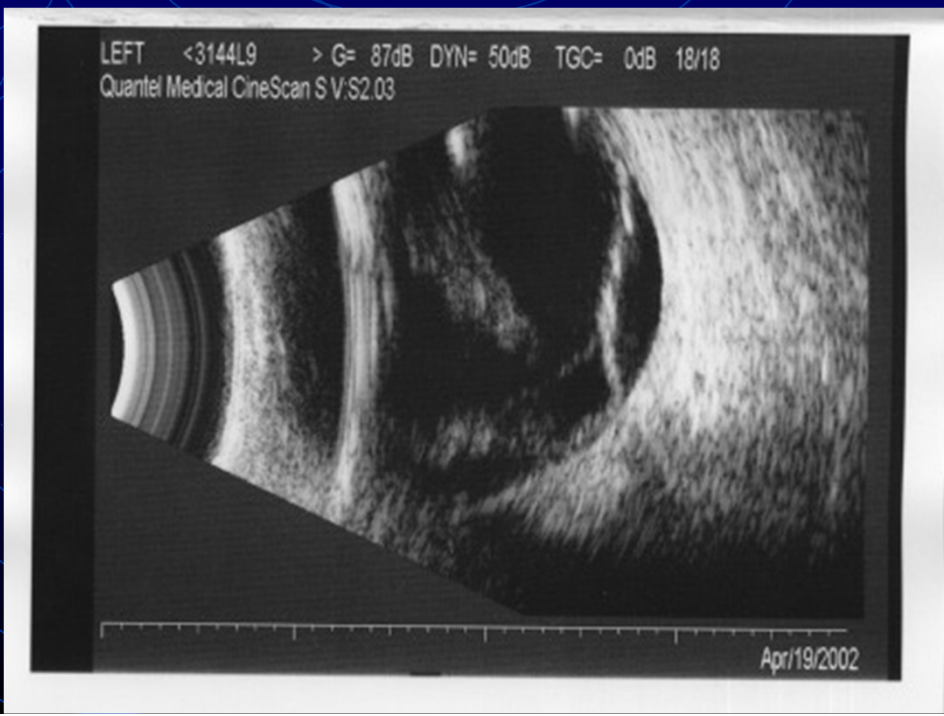
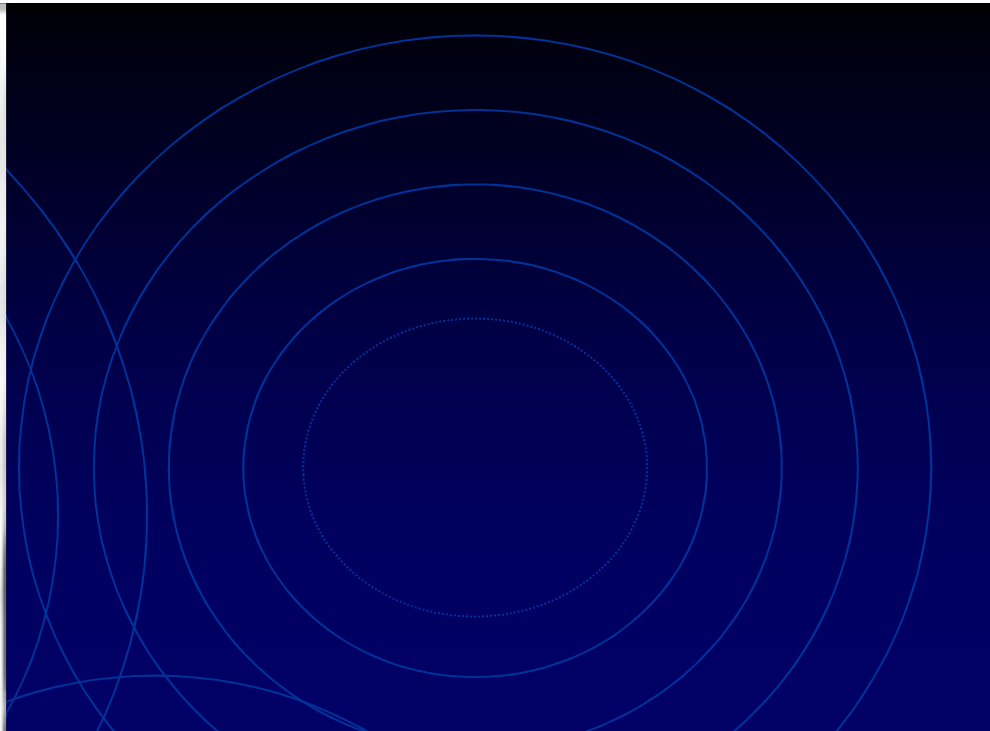
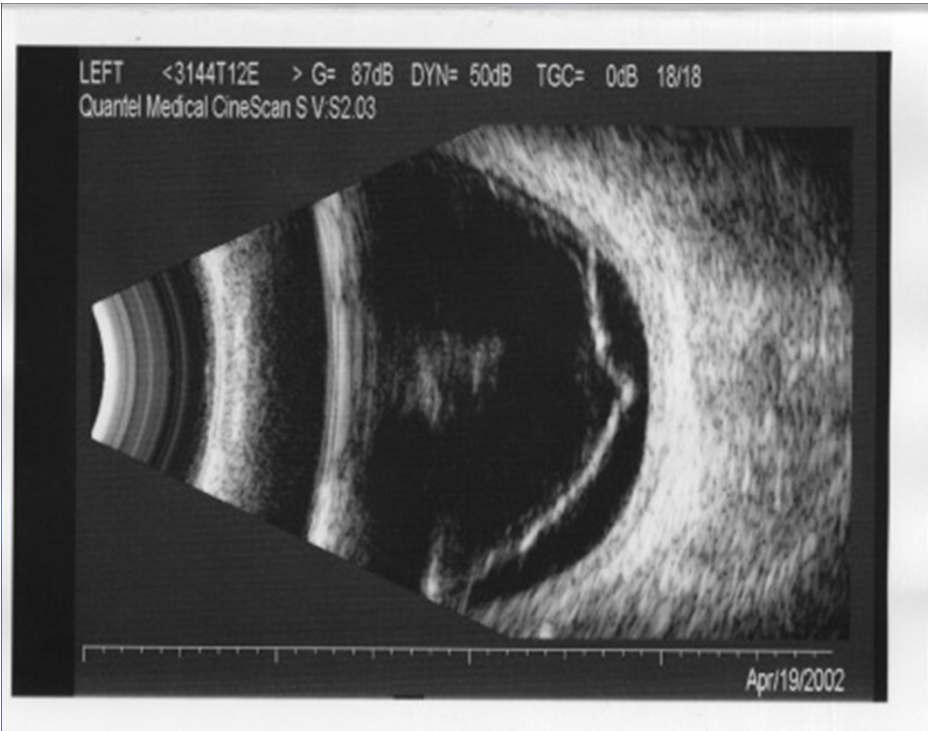
Apr/19/2002



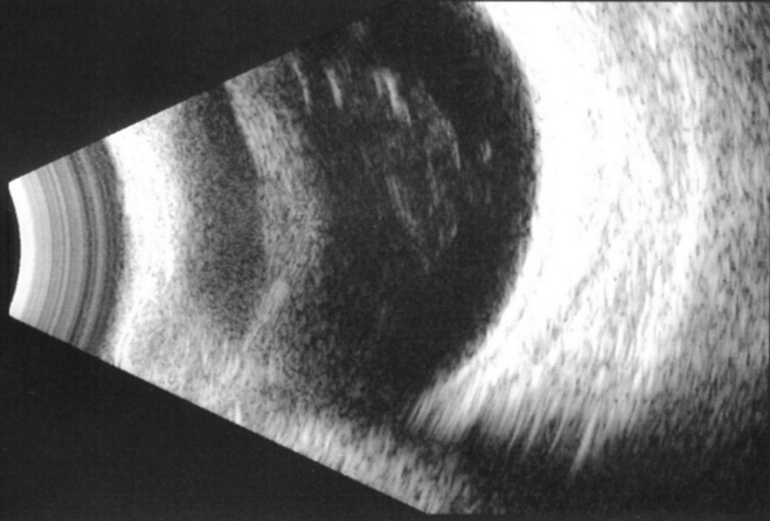
12624 00 L 3 00

G=83 A=41 D=51 Date01-20-92 16H



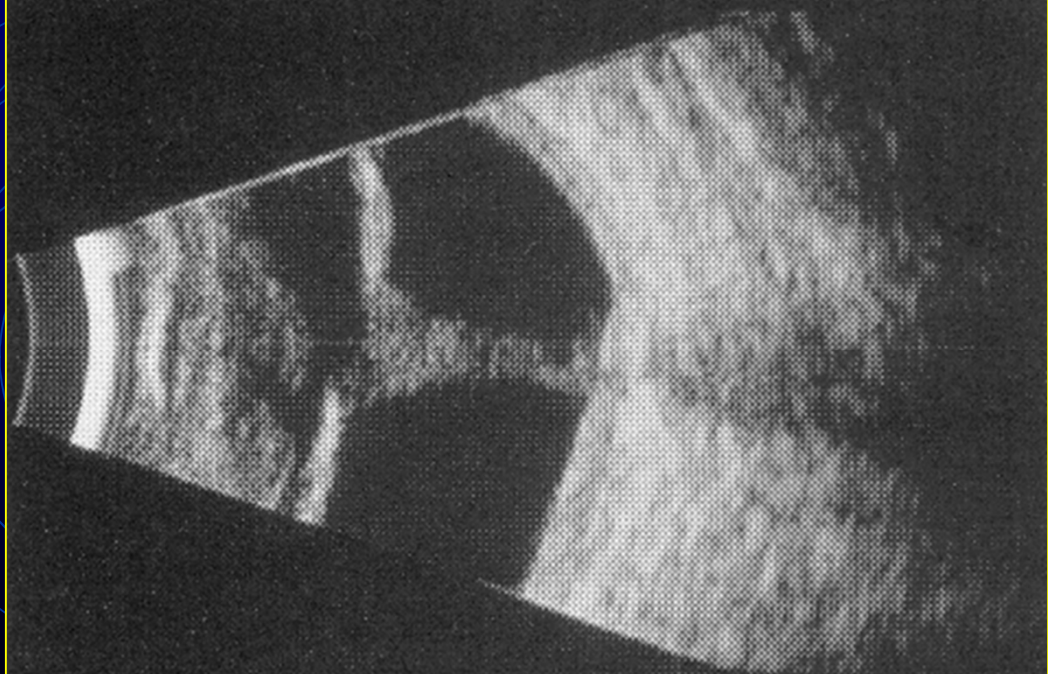


LEFT <5399T12E > G= 103dB DYN= 50dB TGC= 0dB 18/18  
Quantel Medical CineScan S V:S2.03

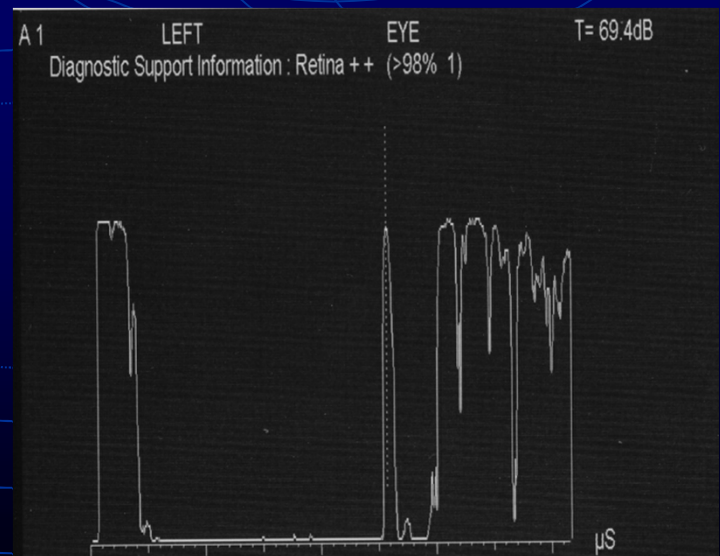
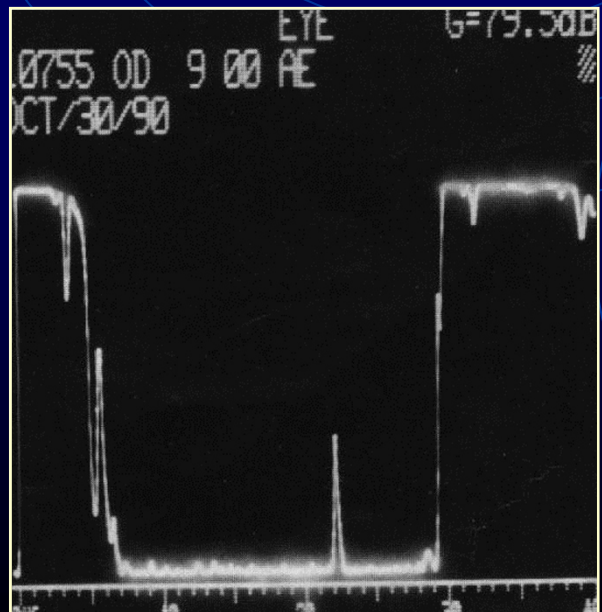
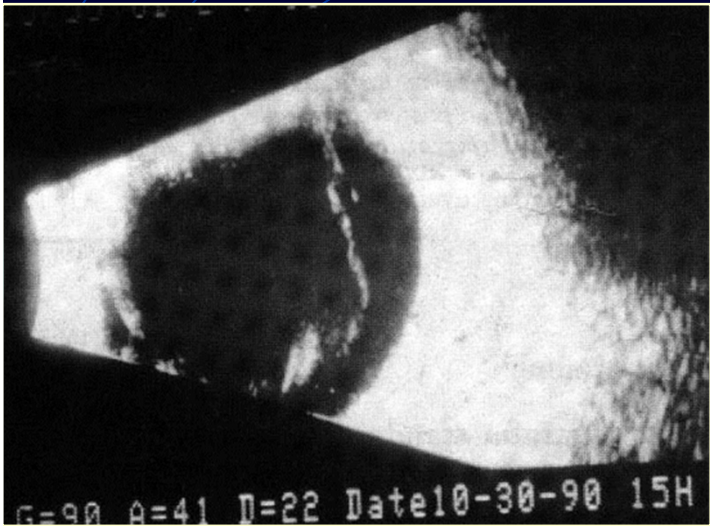


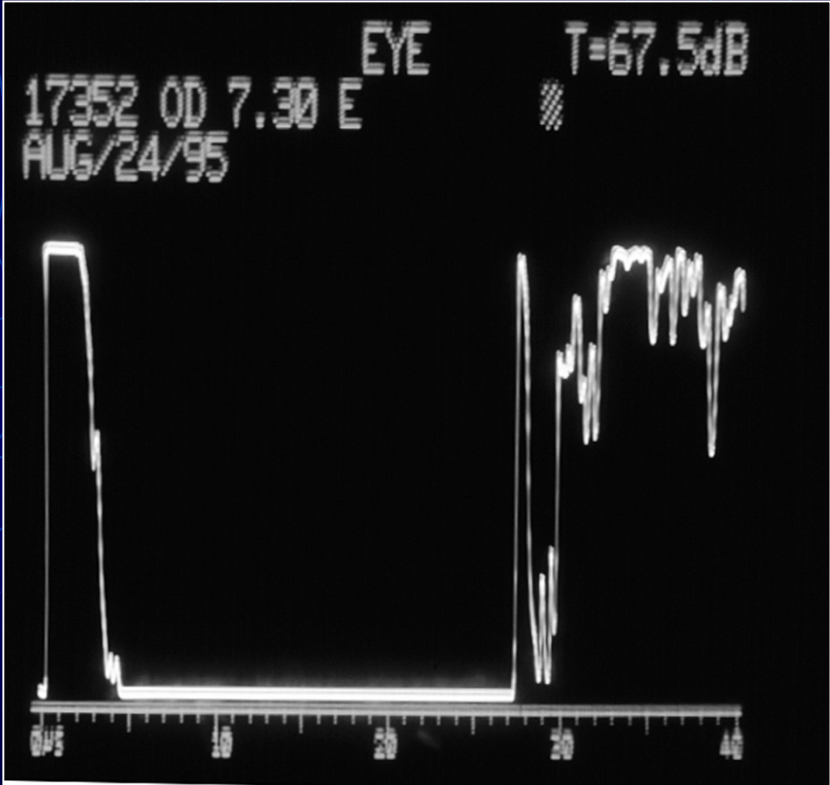
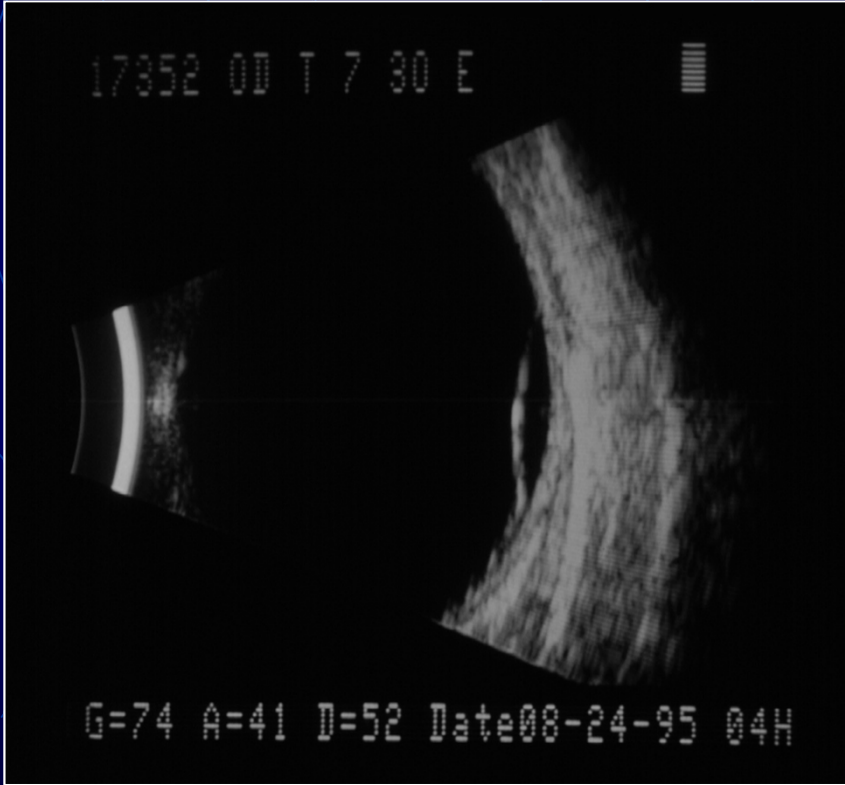
Oct05/2005

12624 00 L 3 00



G=83 A=41 D=51 Date01-20-92 16H





13882 OS HAX

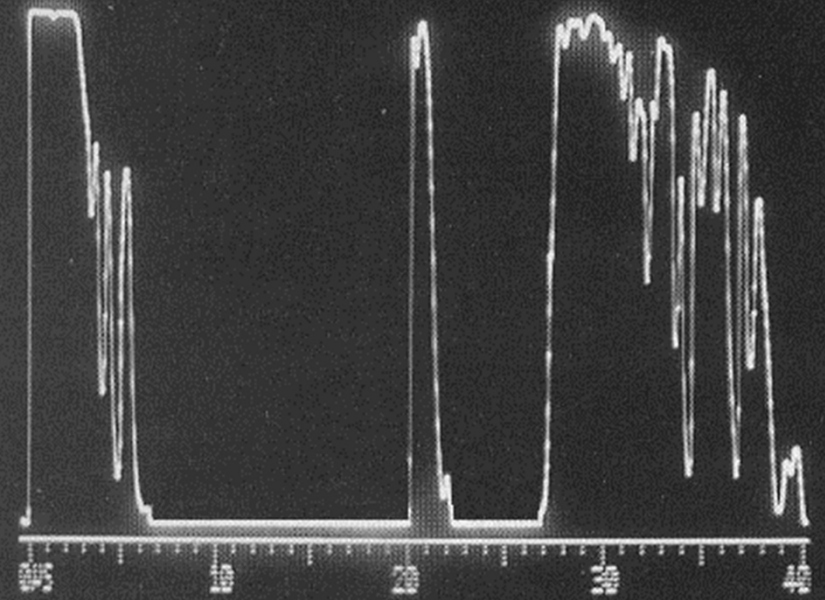


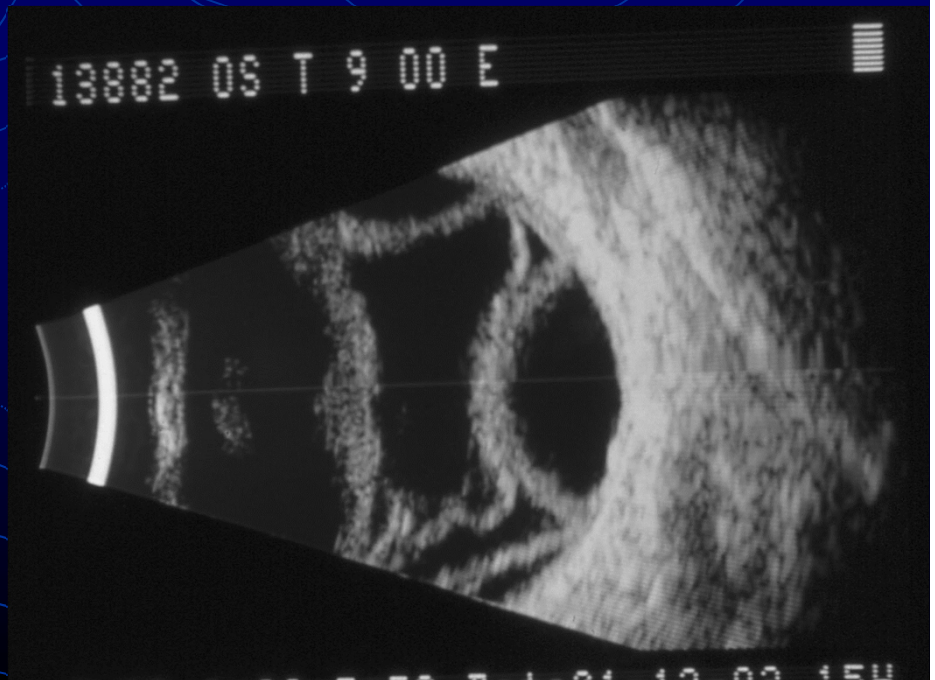
C-99 A-22 N-51 Date 01-12-93 15H

EYE

G=66.5dB

10879 OS 8.00 EA  
NOV/20/90





# MEZZI DIOTTRICI OPACHI

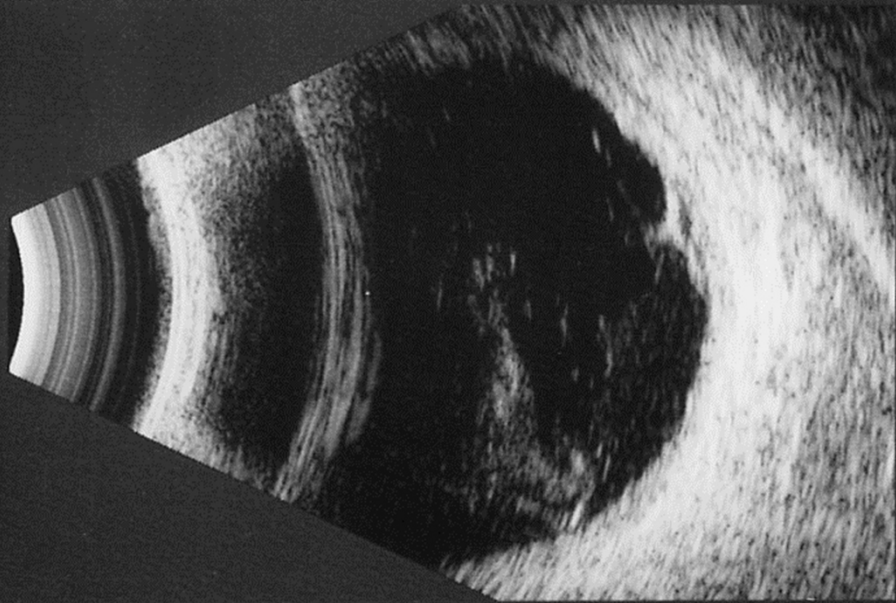
Neoformazioni

Distacco di retina

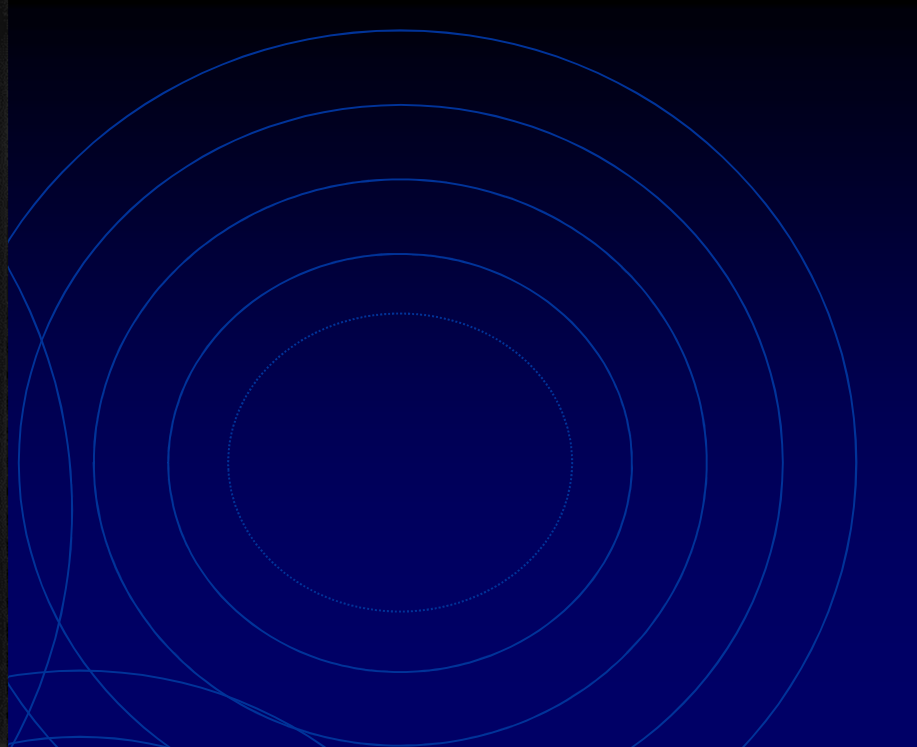
**Lacerazioni**

Maculopatie

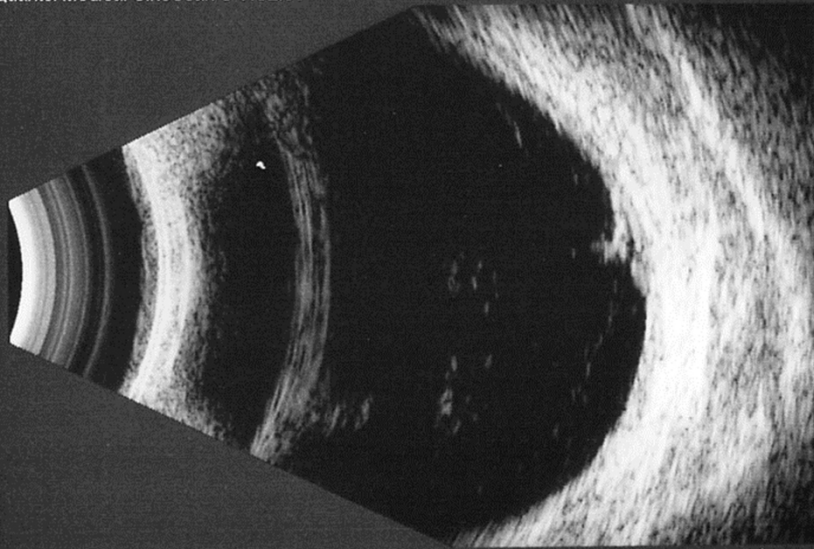
RIGHT <3629L11 > G= 89dB DYN= 50dB TGC= 0dB 18/18  
Quantel Medical CineScan S V:S2.03



Mar/19/2003



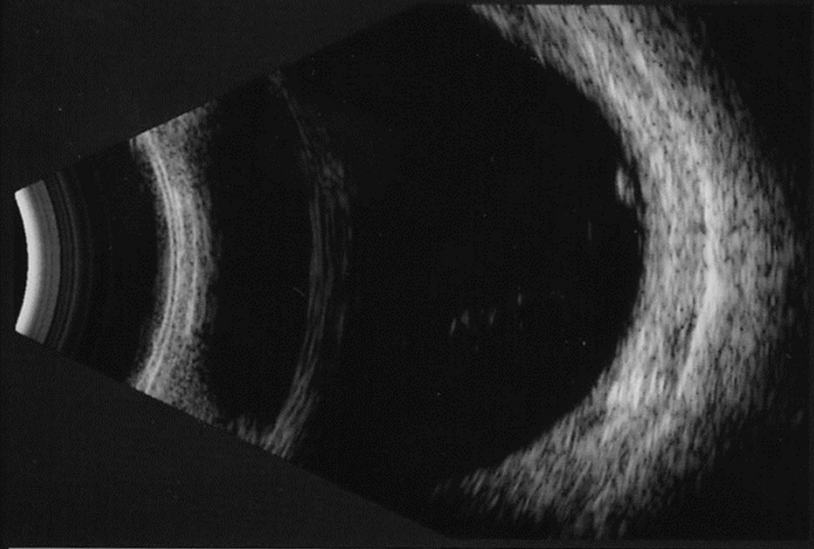
RIGHT <3629T11E > G= 85dB DYN= 50dB TGC= 0dB 18/18  
Quantel Medical CineScan S V:S2.03



Mar/19/2003

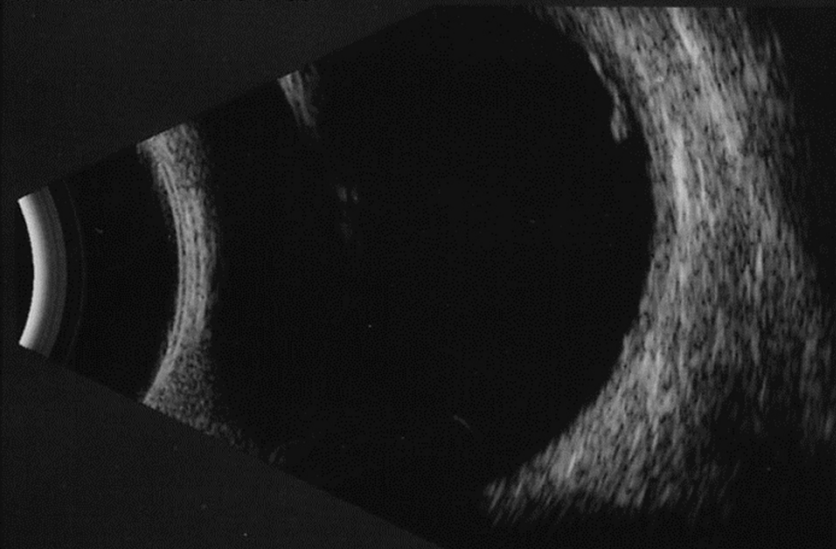


LEFT <3815 T11 > G= 80dB DYN= 50dB TGC= 0dB 18/18  
Quantel Medical CineScan S V:S2.03



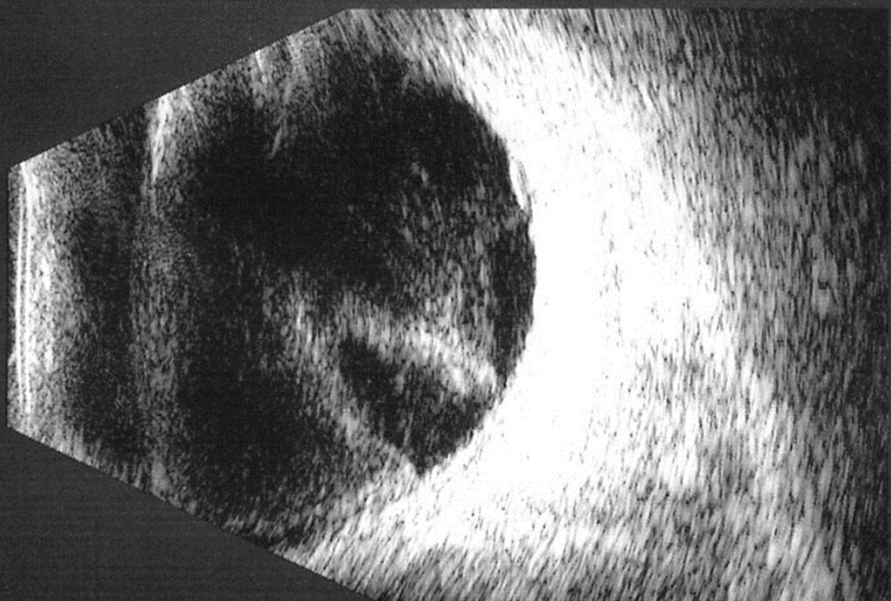
July/10/2003

LEFT <3815L11 > G= 75dB DYN= 50dB TGC= 0dB 18/18  
Quantel Medical CineScan S V:S2.03



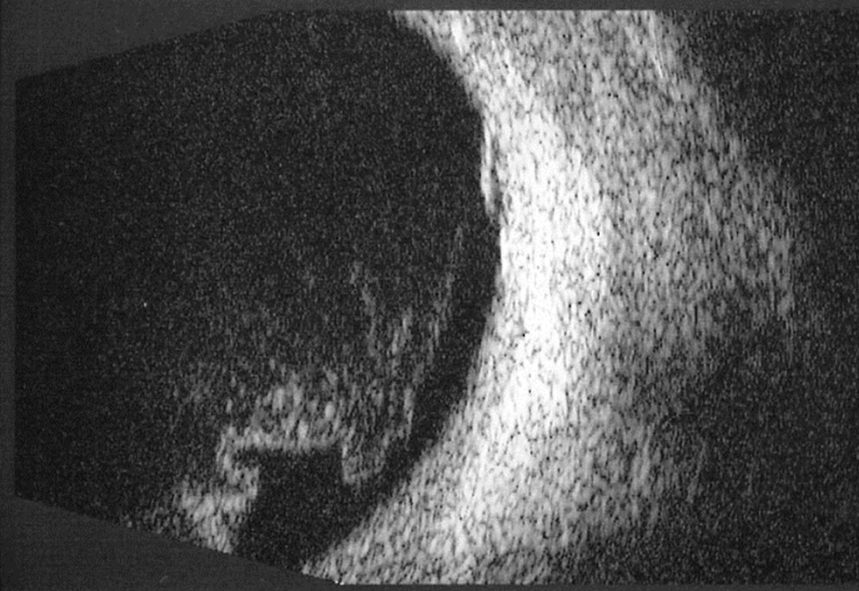
July/10/2003

LEFT <4170L2 > G= 99dB DYN= 50dB TGC= -10dB 36/39



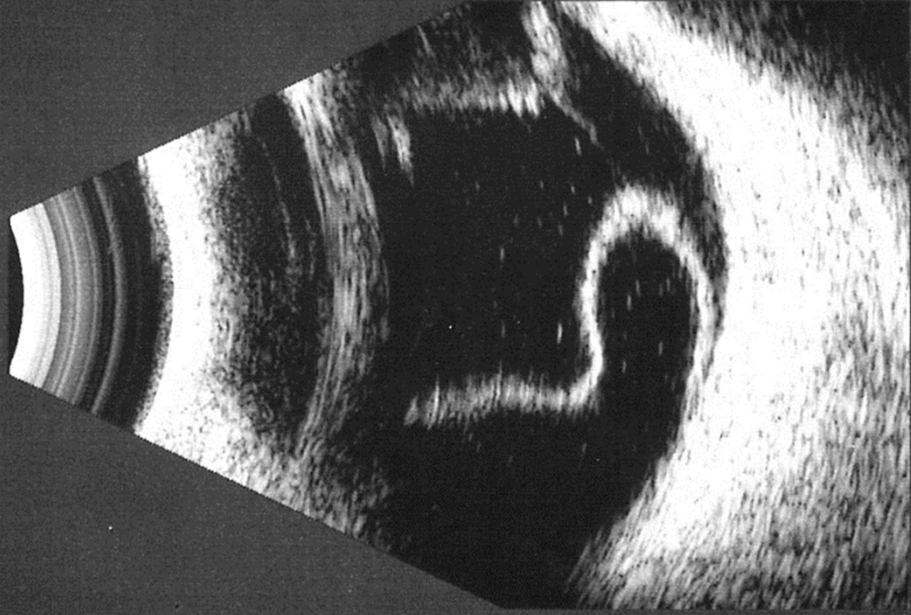
Jan/14/2004 10 MHz

LEFT <4170L2 > G= 105dB DYN= 50dB TGC= -10dB 34/39



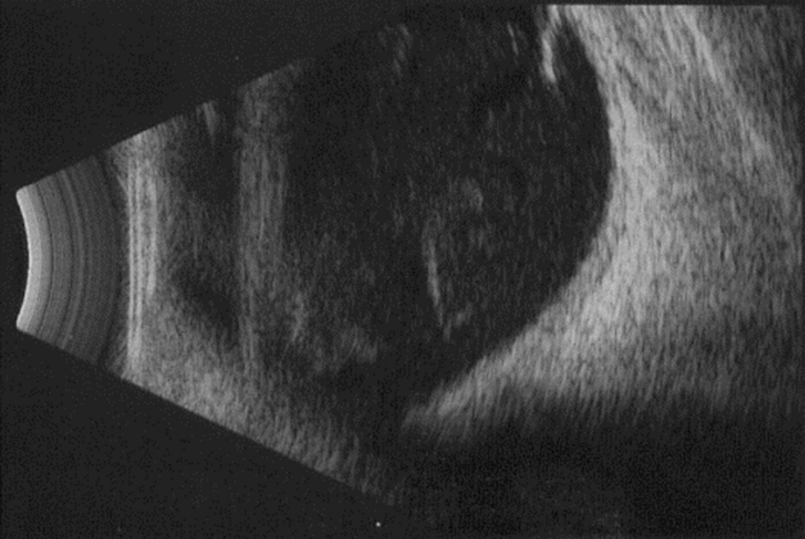
Jan/14/2004 20 MHz

LEFT <3526L2 > G= 87dB DYN= 50dB TGC= 0dB 18/18  
Quantel Medical CineScan S V:S2.03



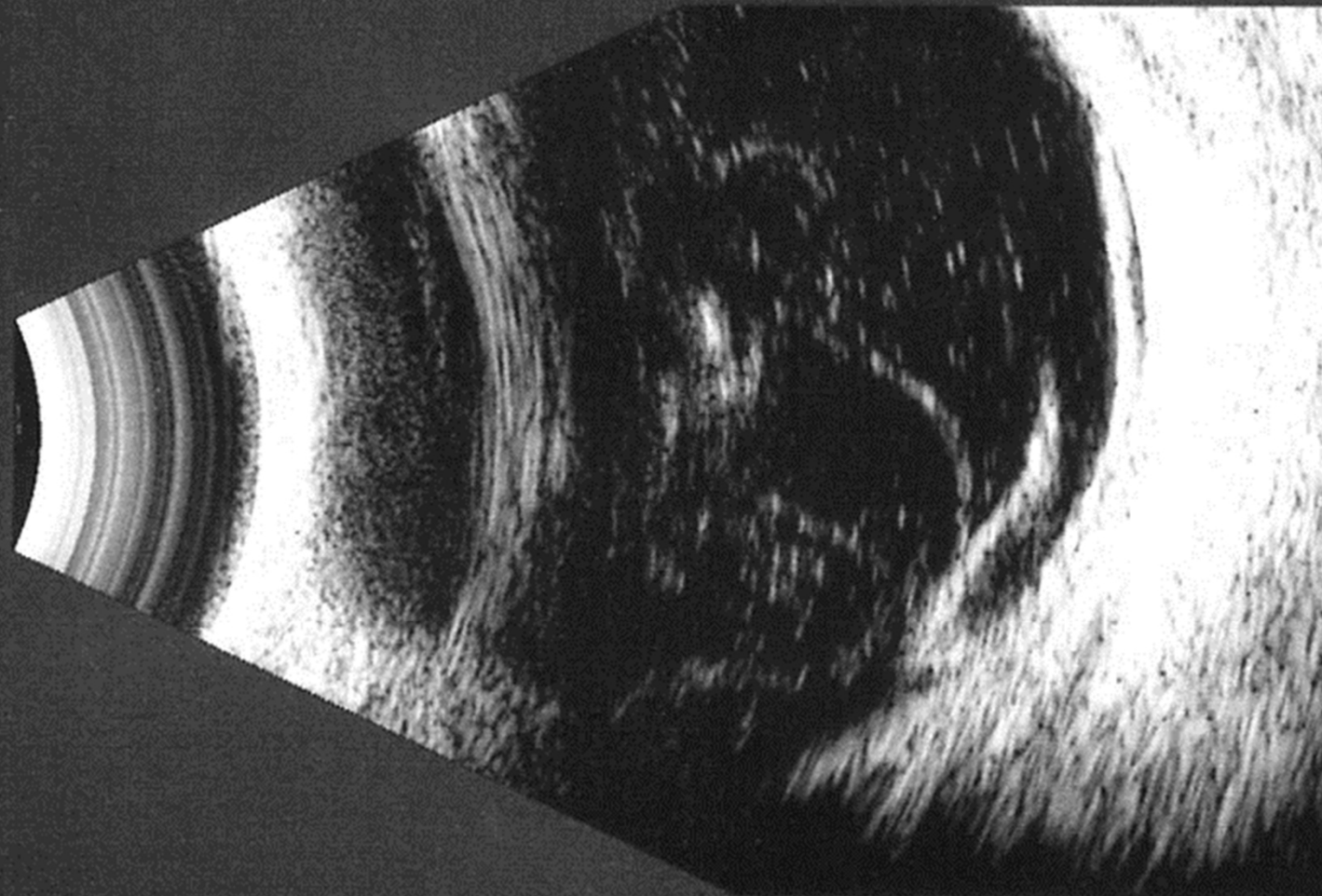
Feb/03/2003

RIGHT <L 11 EA > G= 95dB DYN= 50dB TGC= 0dB 18/18  
Quantel Medical CineScan S V:S2.03



May/02/2001

LEFT <2526T2EA > G= 91dB DYN= 50dB TGC= 0dB 18/18  
Quantel Medical CineScan S V:S2.03

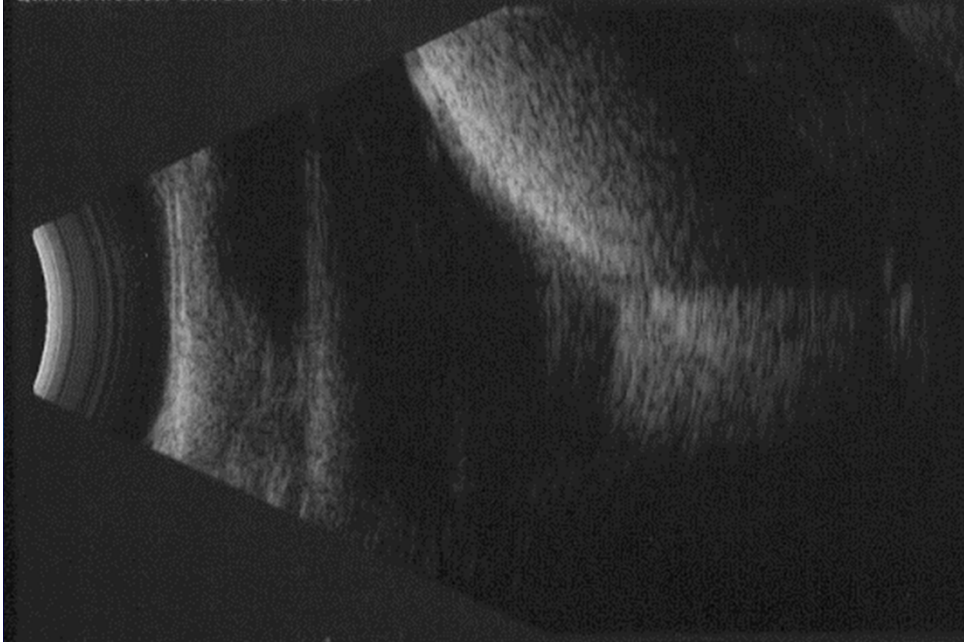


Feb/03/2003

The image features a dark blue gradient background. Overlaid on this background are three sets of concentric circles in a lighter blue color. The circles are arranged in a triangular pattern, with one set at the top left, one at the top right, and one at the bottom center. The text "POST INTERVENTO" is centered horizontally and vertically in a white, serif font.

# POST INTERVENTO

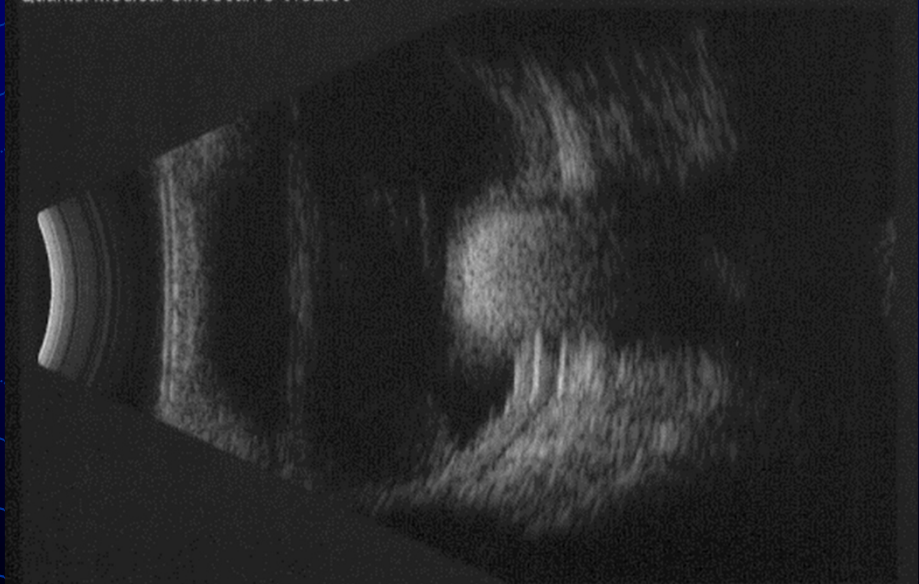
LEFT <2390L7 > G= 83dB DYN= 50dB TGC= 0dB 18/18  
Quantel Medical CineScan S V:S2.03



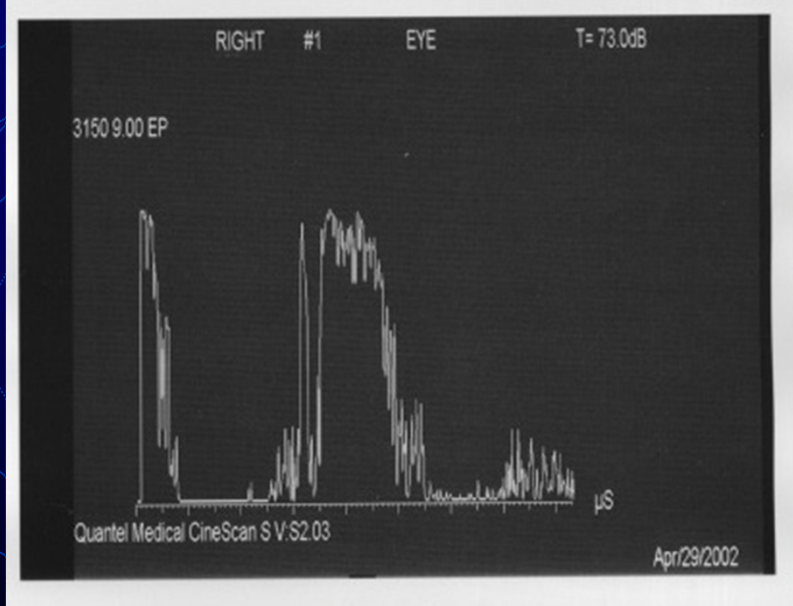
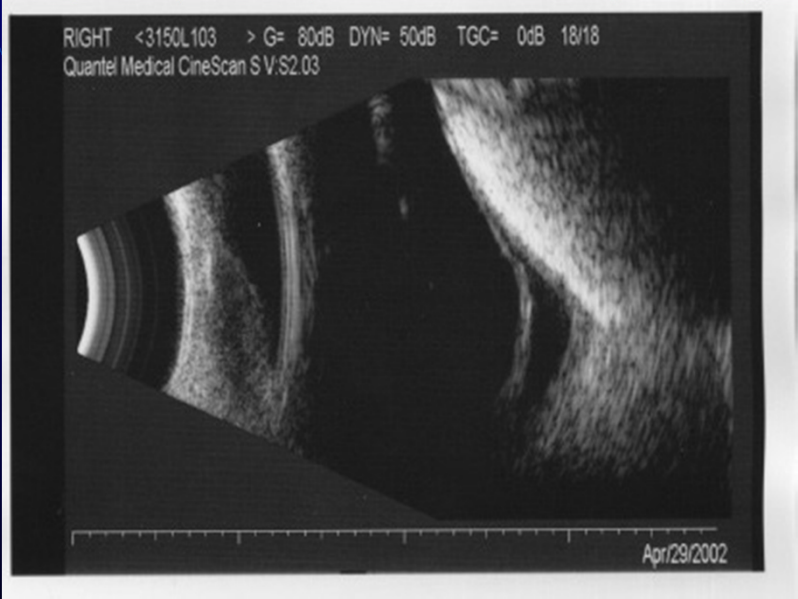
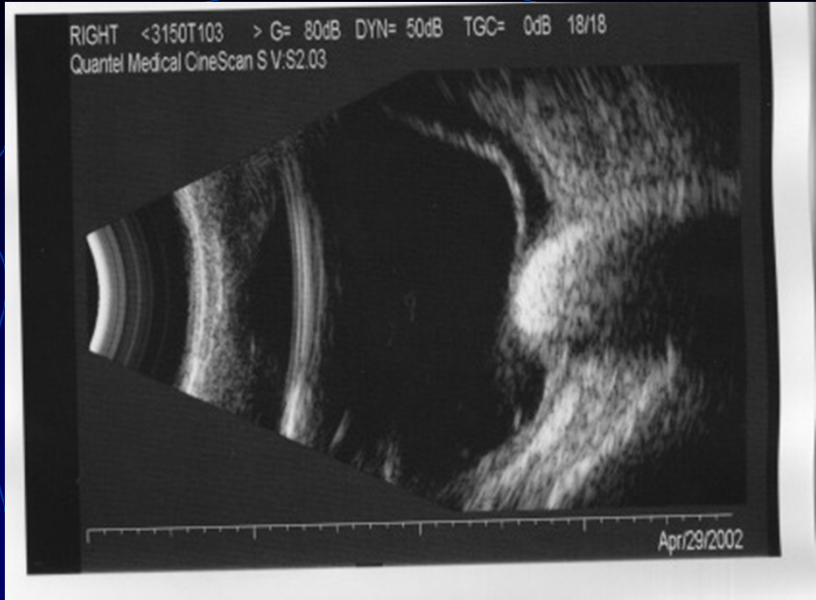
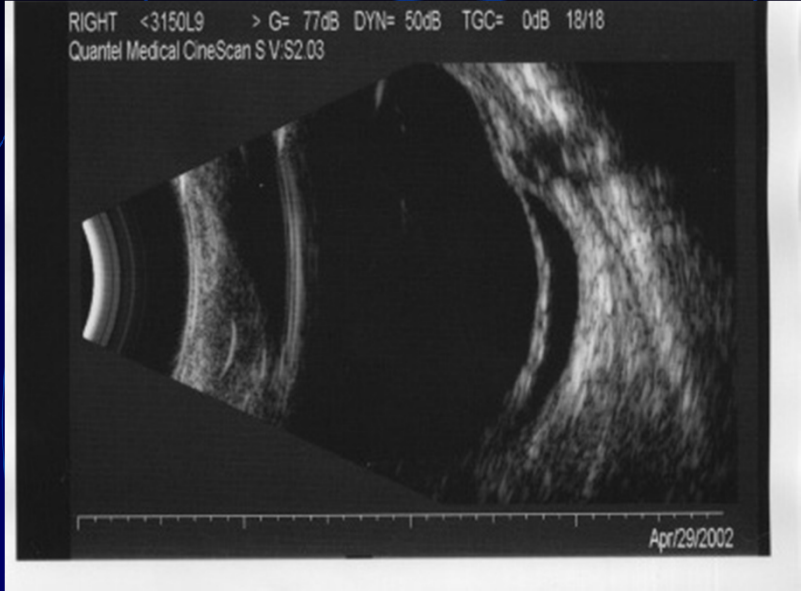
June/11/2001

## POST OPERATORIO

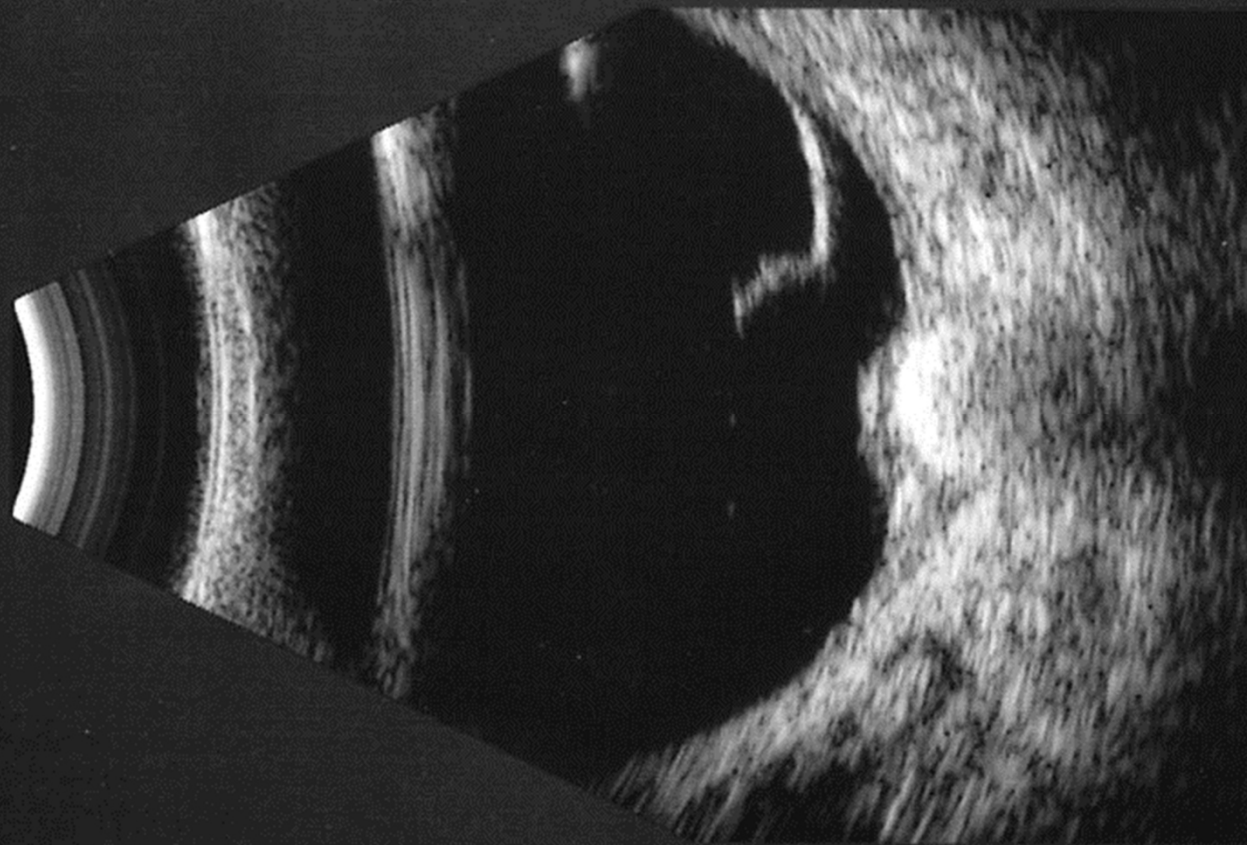
LEFT <2390T 7E > G= 82dB DYN= 50dB TGC= 0dB 18/18  
Quantel Medical CineScan S V:S2.03



June/11/2001

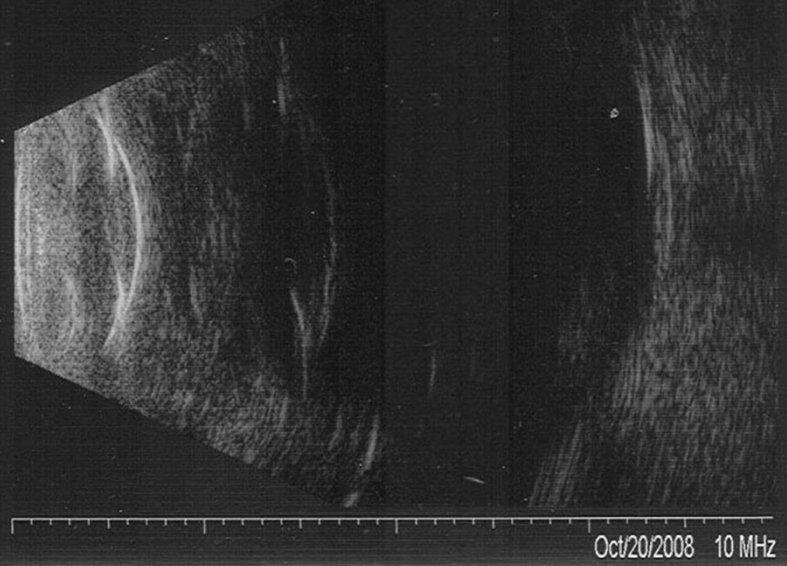


RIGHT <3013T1EP > G= 80dB DYN= 50dB TGC= 0dB 18/18  
Quantel Medical CineScan S V:S2.03

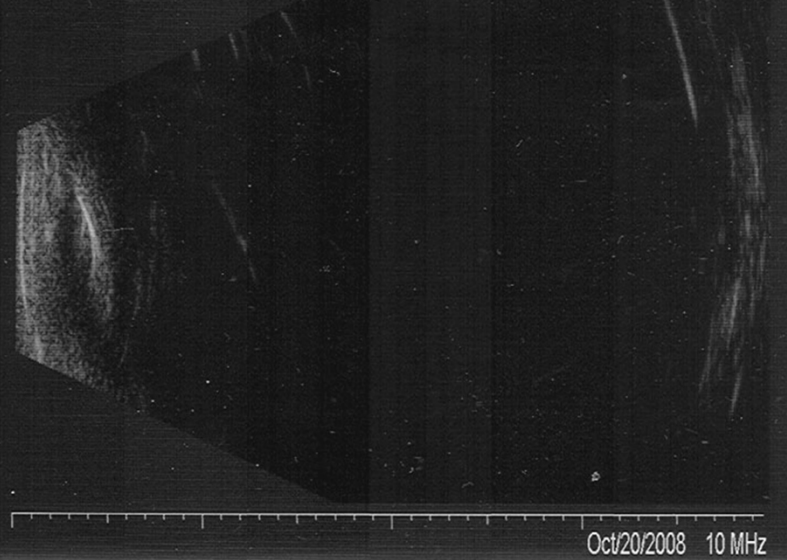


Jan/28/2002

RIGHT <7017VAX > G= 105dB DYN= 60dB TGC= 0dB 39/39  
Quantel Medical CineScan S V:5.06

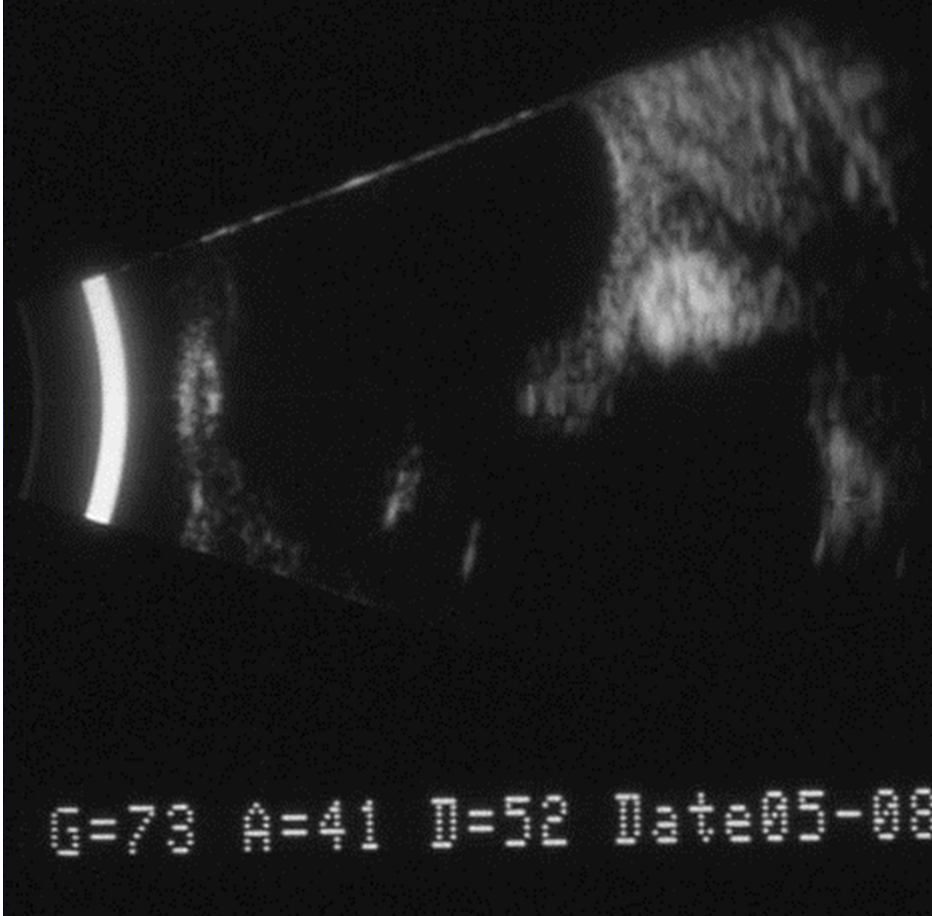


RIGHT <7017L9 > G= 86dB DYN= 60dB TGC= 0dB 39/39  
Quantel Medical CineScan S V:5.06



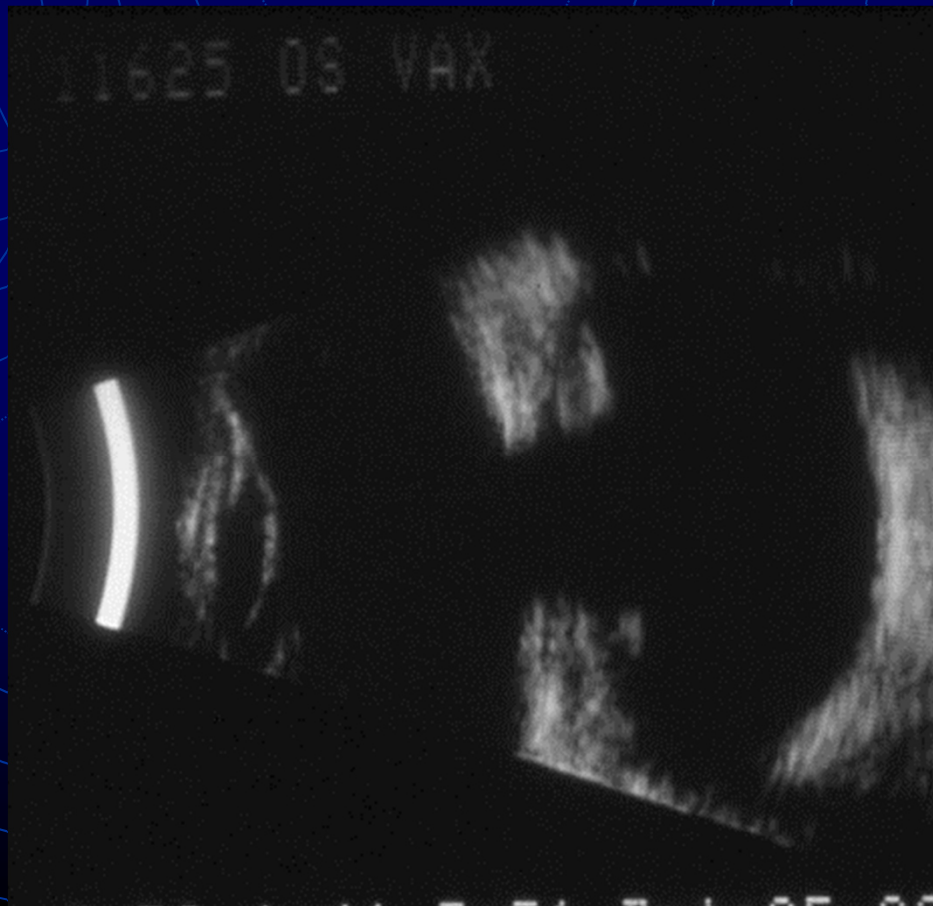


11625 08 L 9 00



G=73 A=41 B=52 Date 95-98

11625 08 VAX



# MEZZI DIOTTRICI OPACHI

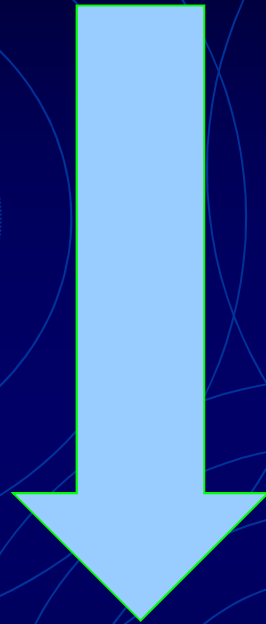
Neoformazioni

Distacco di retina

Lacerazioni

**Maculopatie**

**OCT**



**MIGLIORAMENTO ECOGRAFIA**

EYE

G=53.4dB

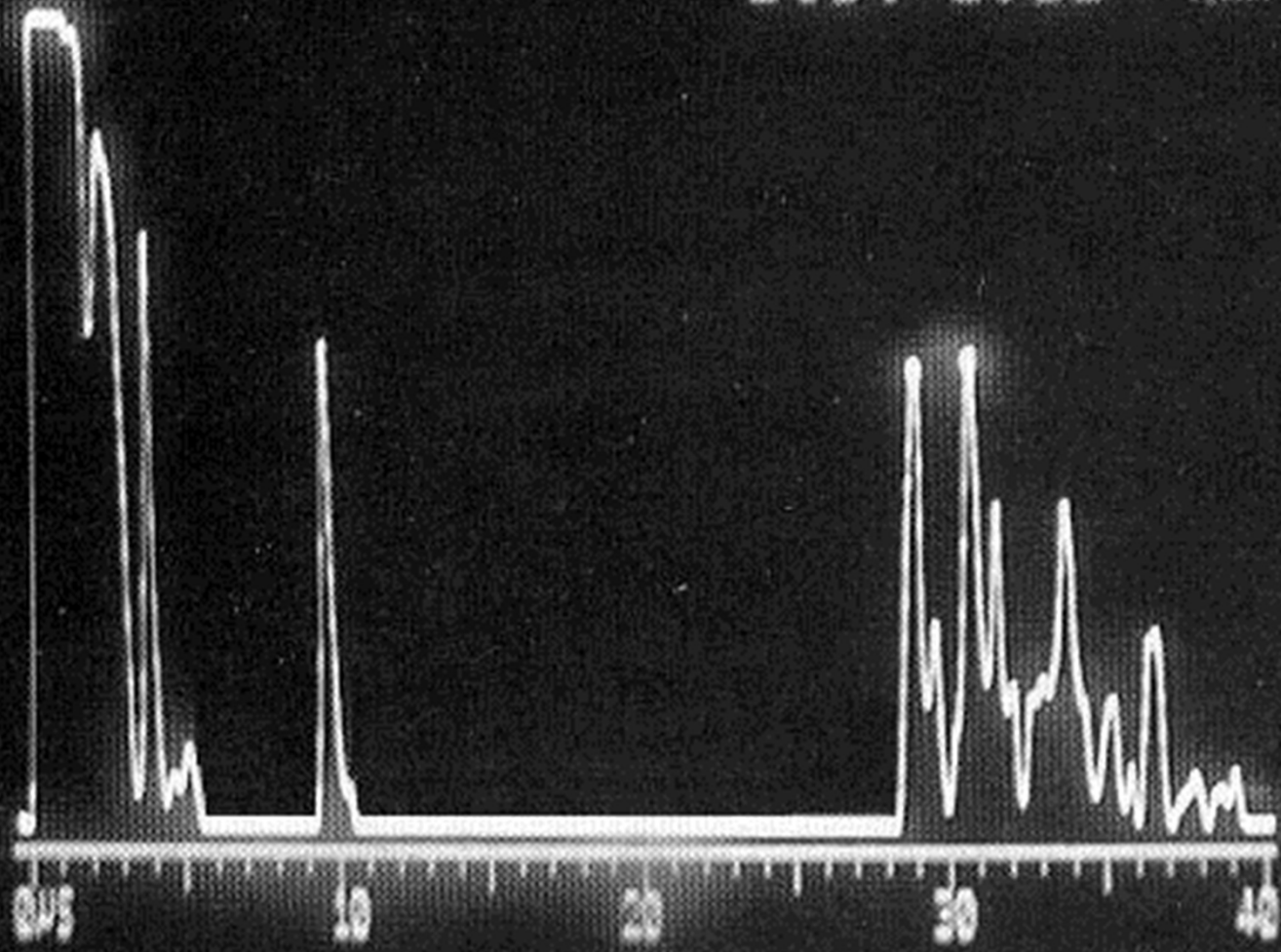
15568 OS MACULA

///

FEB/28/94

Vel.=1550m/s

Dist=1.36 mm



# Macula study with standardized echography

G. Cennamo<sup>1</sup>, N. Rosa<sup>1</sup>, G. Iaccarino<sup>2</sup>, A. La Rana<sup>1</sup>  
and A. Pasquariello<sup>1</sup>

Department of Ophthalmology<sup>1</sup>, University of Naples - Federico II, and  
Eye Department<sup>2</sup>, II University of Naples, Italy

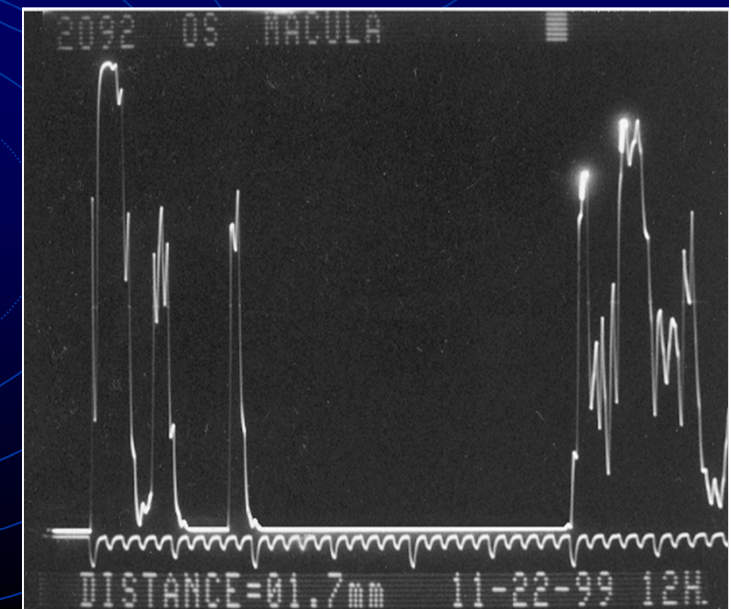
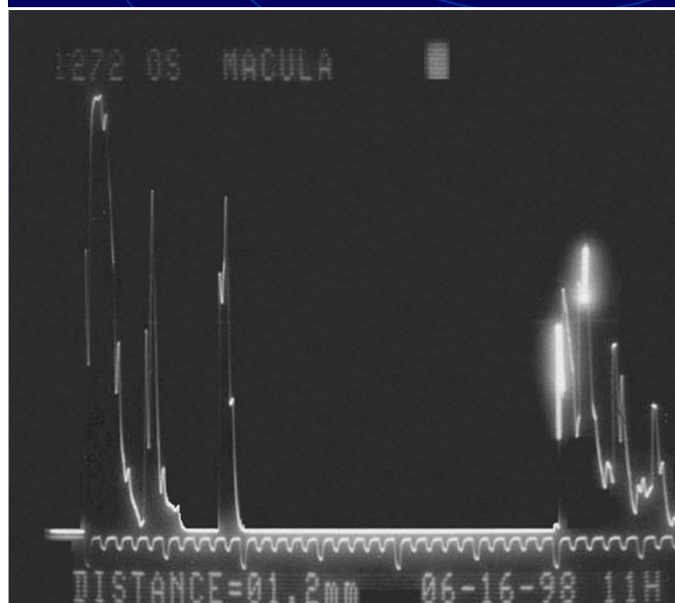
**ABSTRACT.** At an early clinical stage, patients with cystoid macular oedema show no significant changes in their vision. This phase is described as angiographic cystoid macular oedema. Echographic macular studies have in the past years shown that the macular thickness is increased in the early stages of cystoid macular oedema. In these patients there was no evidence of cystoid macular oedema with the visual acuity test, B-scan echography and fluorescein angiography. In this paper an echographic macular study by standardized A-scan echography was performed in 537 patients before extracapsular cataract extraction and intraocular lens implantation in posterior chamber (ciliary sulcus). The results showed that this method is very sensitive in detecting patients with high risk of cystoid macular oedema.

**Key words:** cystoid macular oedema - standardized echography - cataract extraction - macular thickness.

Acta Ophthalmol. Scand. 1996; 74: 178-181

**Macula normale**  
**≤ 1.5 mm**

**Macula ispessita**



# **Macular edema in diabetic patients:**

## **A fluorangiographic and echographic study**

N. Rosa, G. Iaccarino, M. Dati, M. Menzione, M. Lanza, A. Romano

Proc. XIX SIDUO Congress, Mexico City , Sept.2002; 106-111.

- **Edema intraretinico**
- **Ispessimento corioideale**

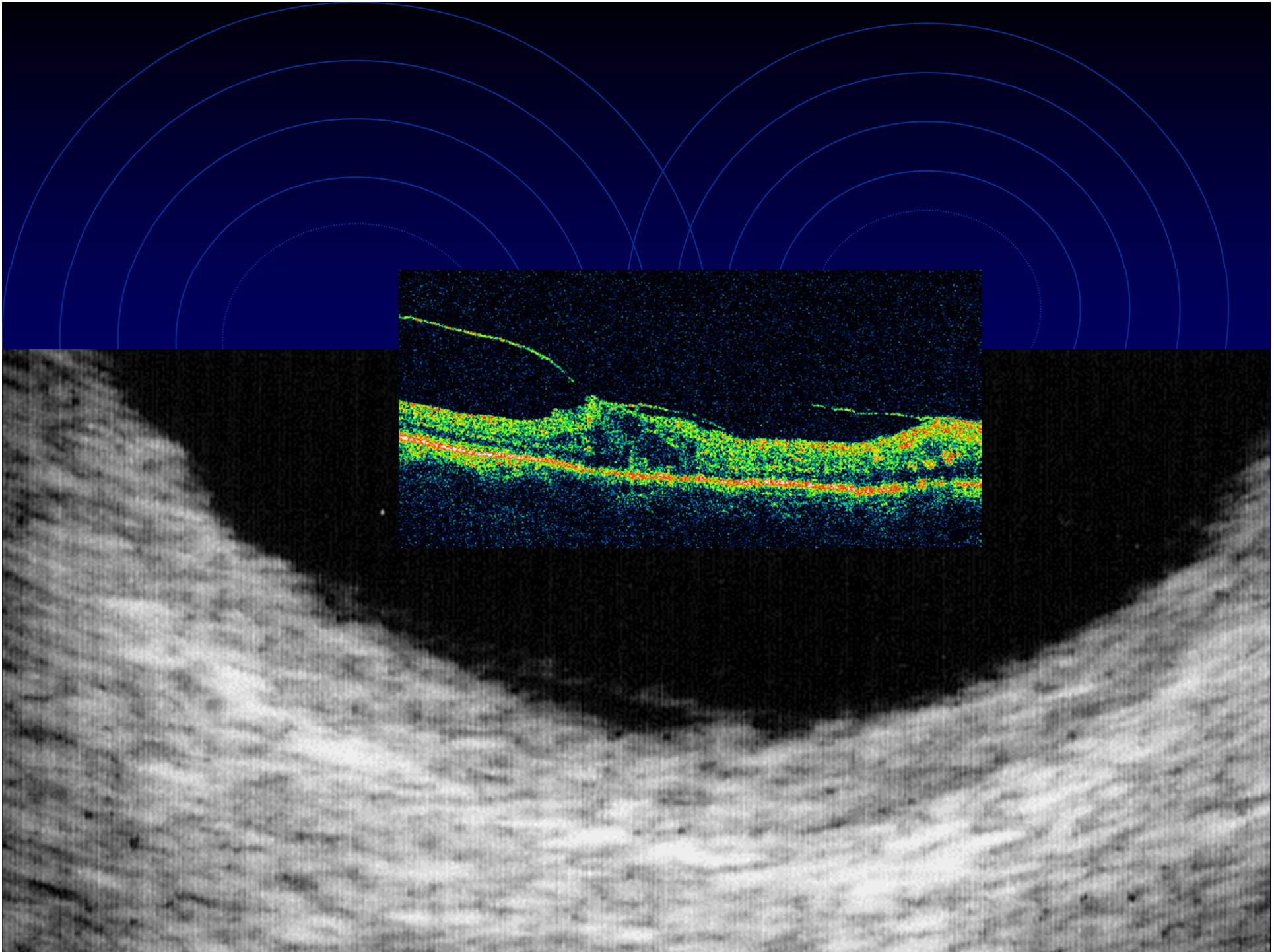


**3 - 7 September 2006**  
**Lima - Perú**

**XXI Congress of the  
International Society of  
Ophthalmic Ultrasound**

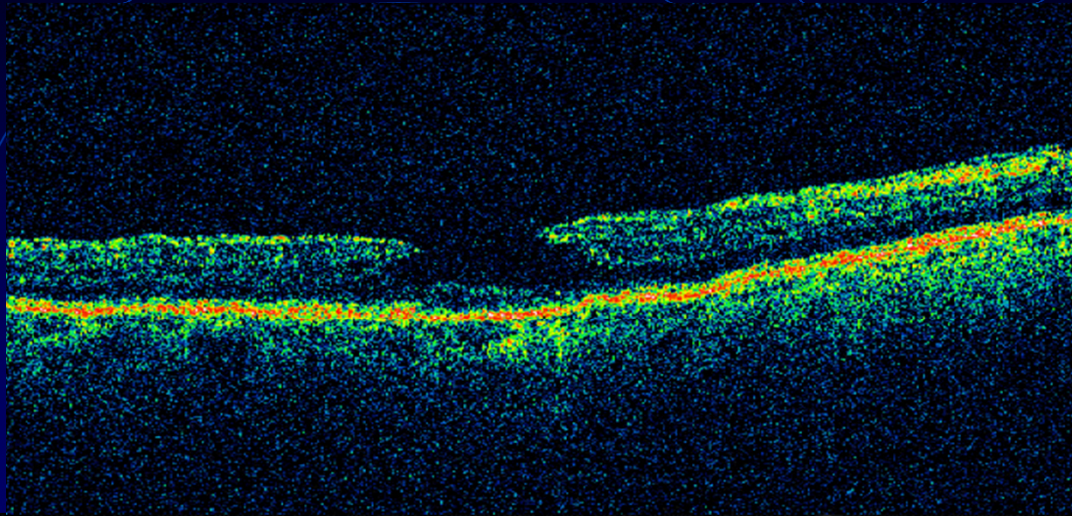
# **Processed B scan images in the evaluation of vitreoretinal diseases**

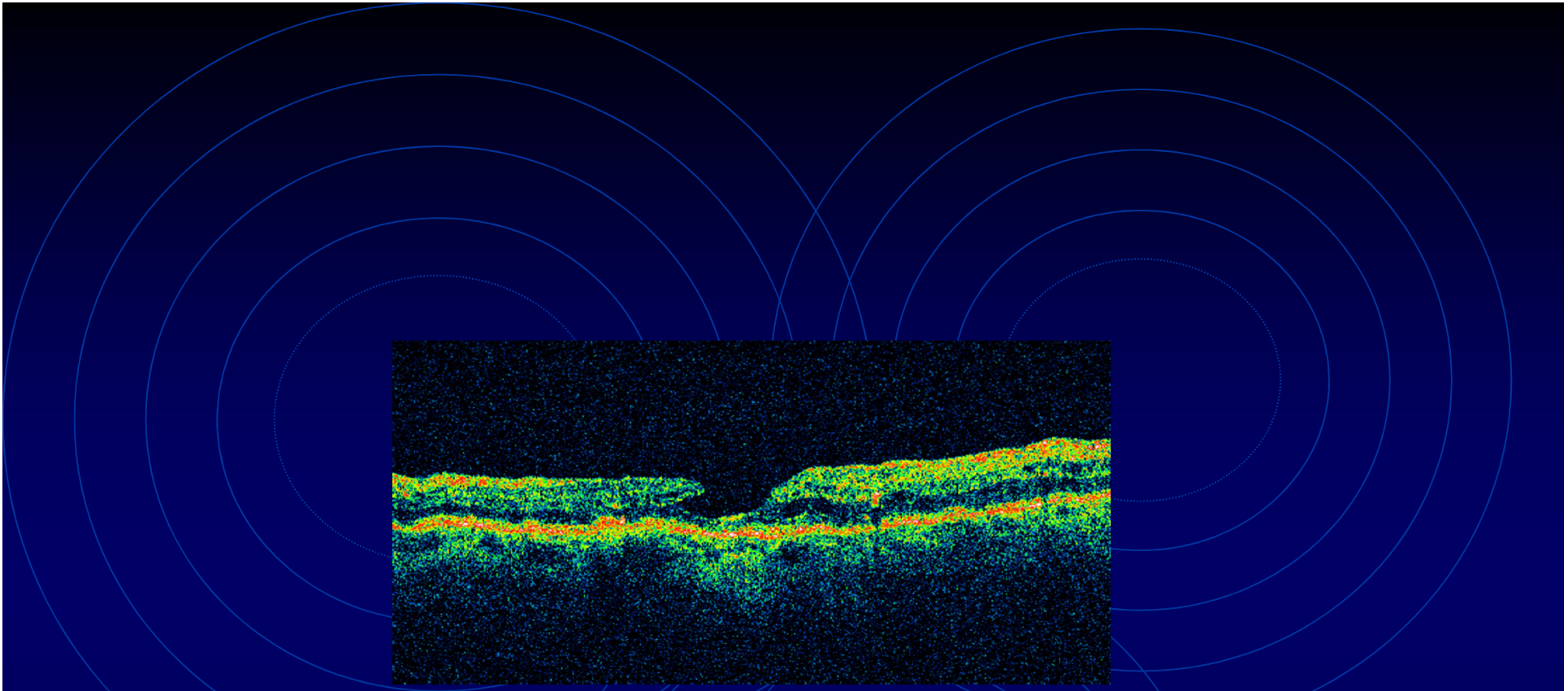
Nicola ROSA, Massimo MENZIONE, Michele LANZA,  
Maria Luisa FILOSA, Marcella LUCCI

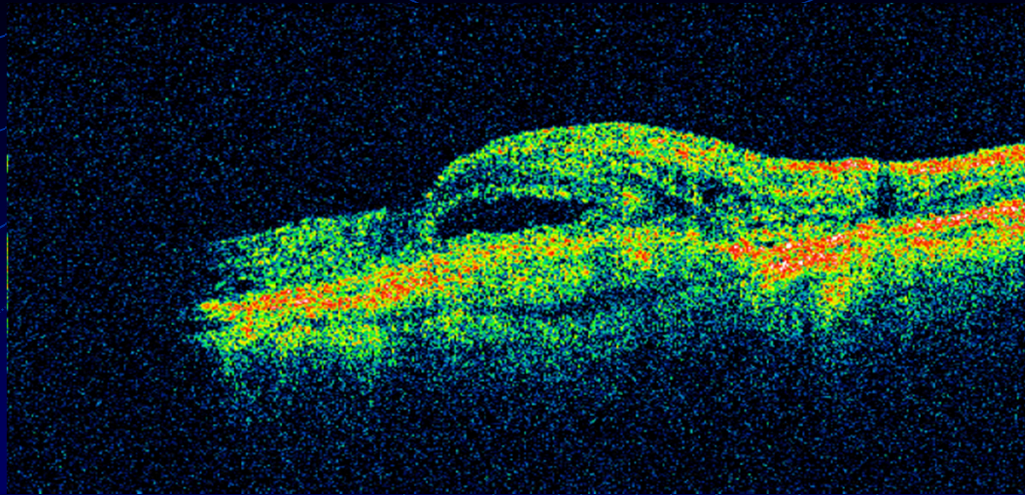




Foro Maculare

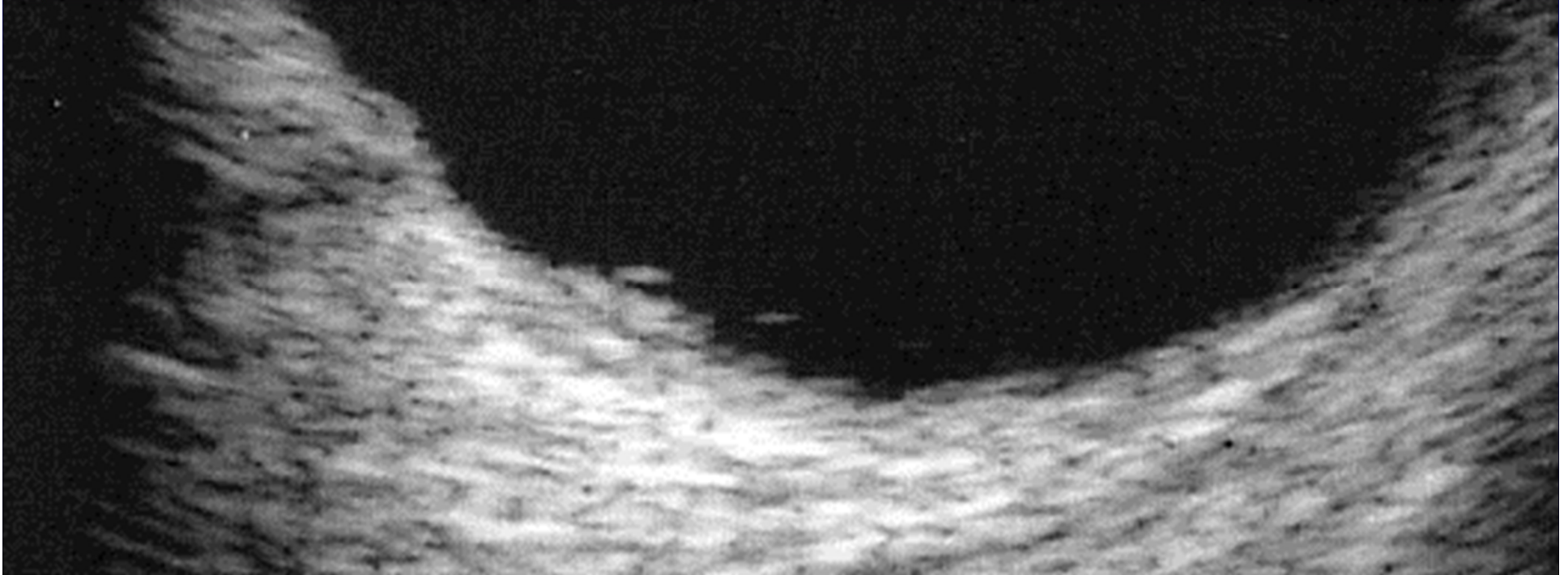
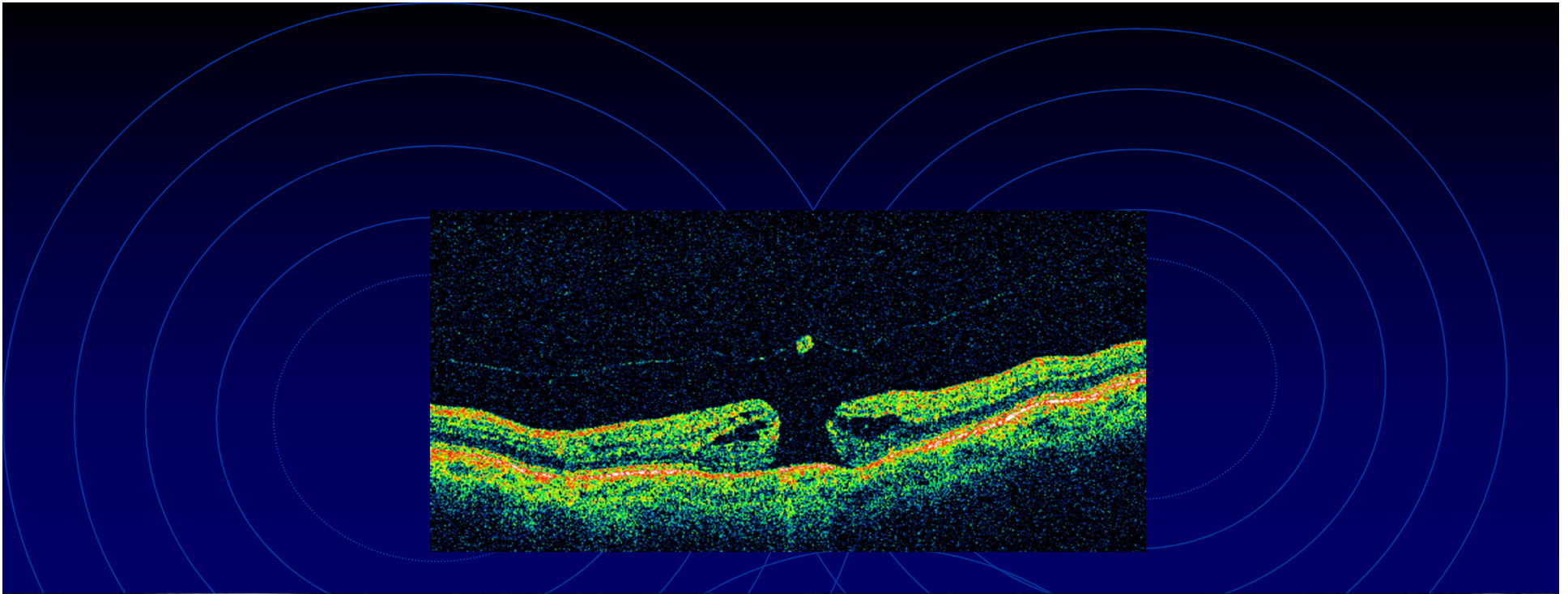




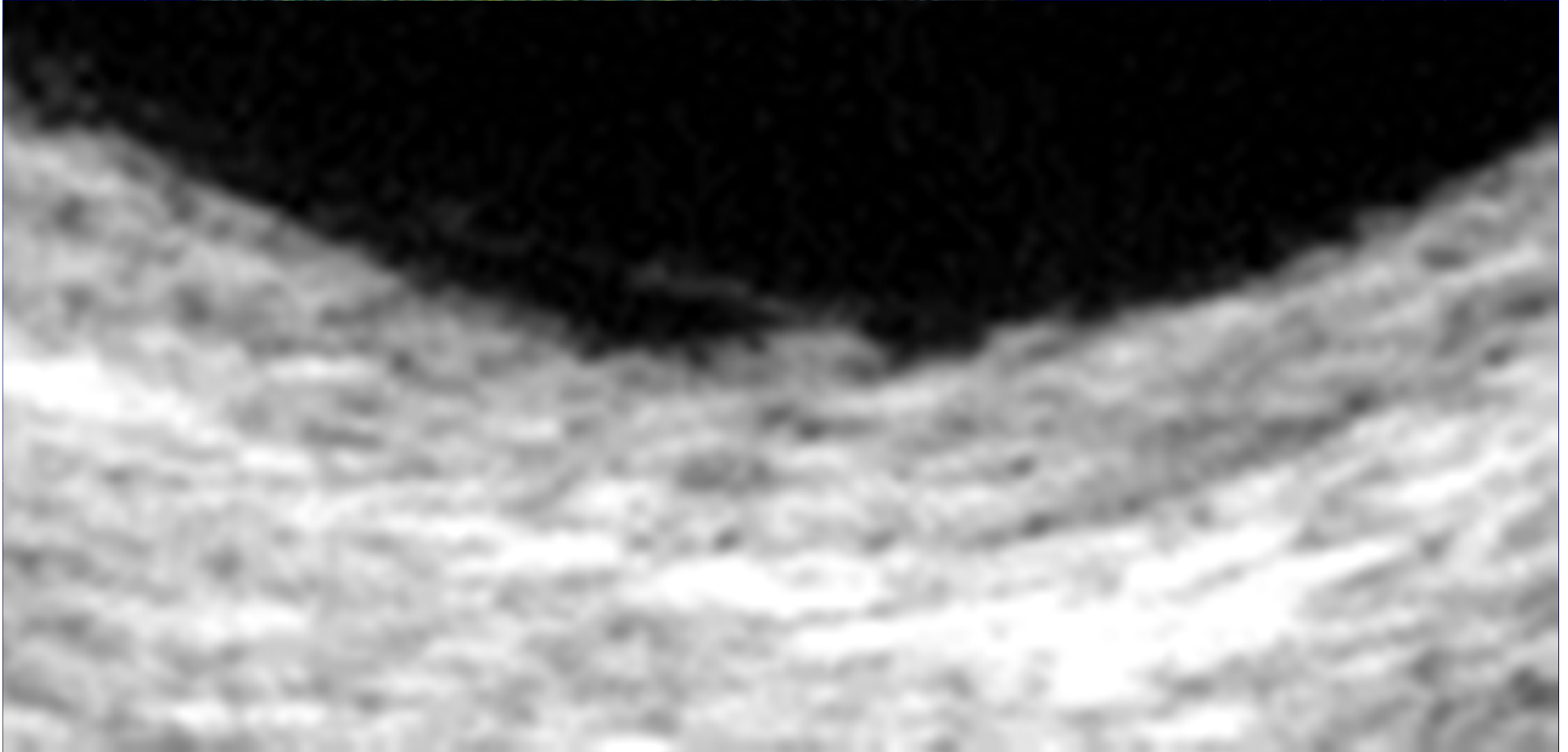
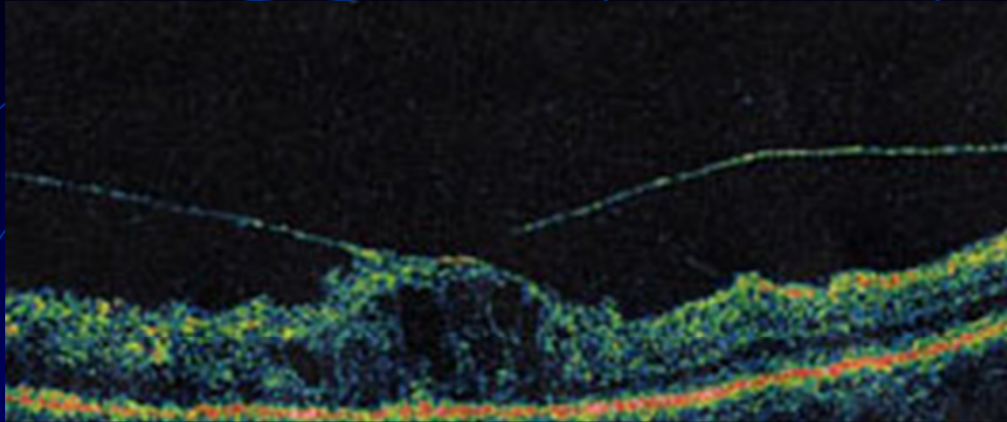


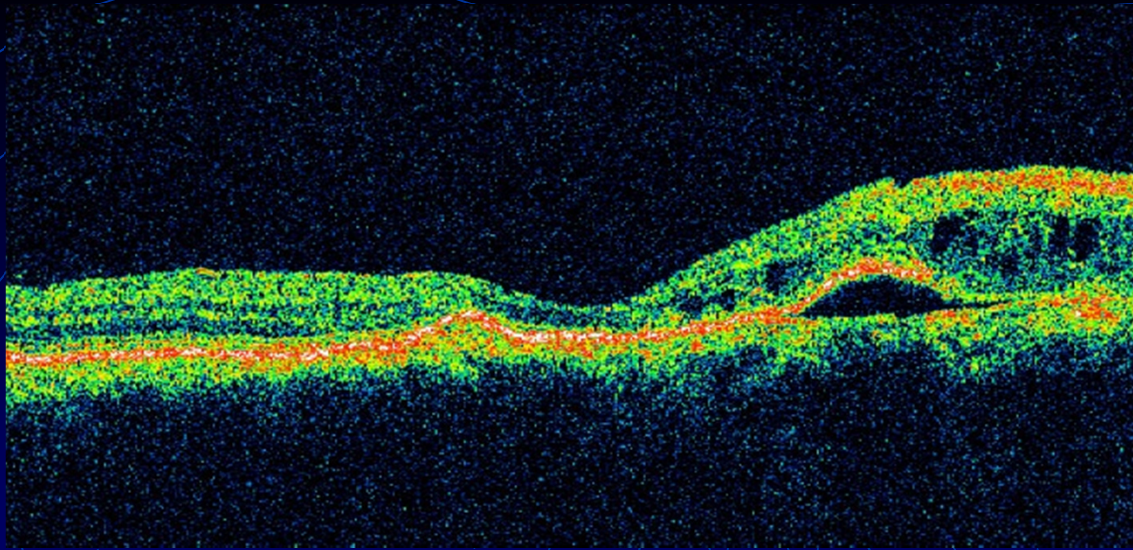
DMLE



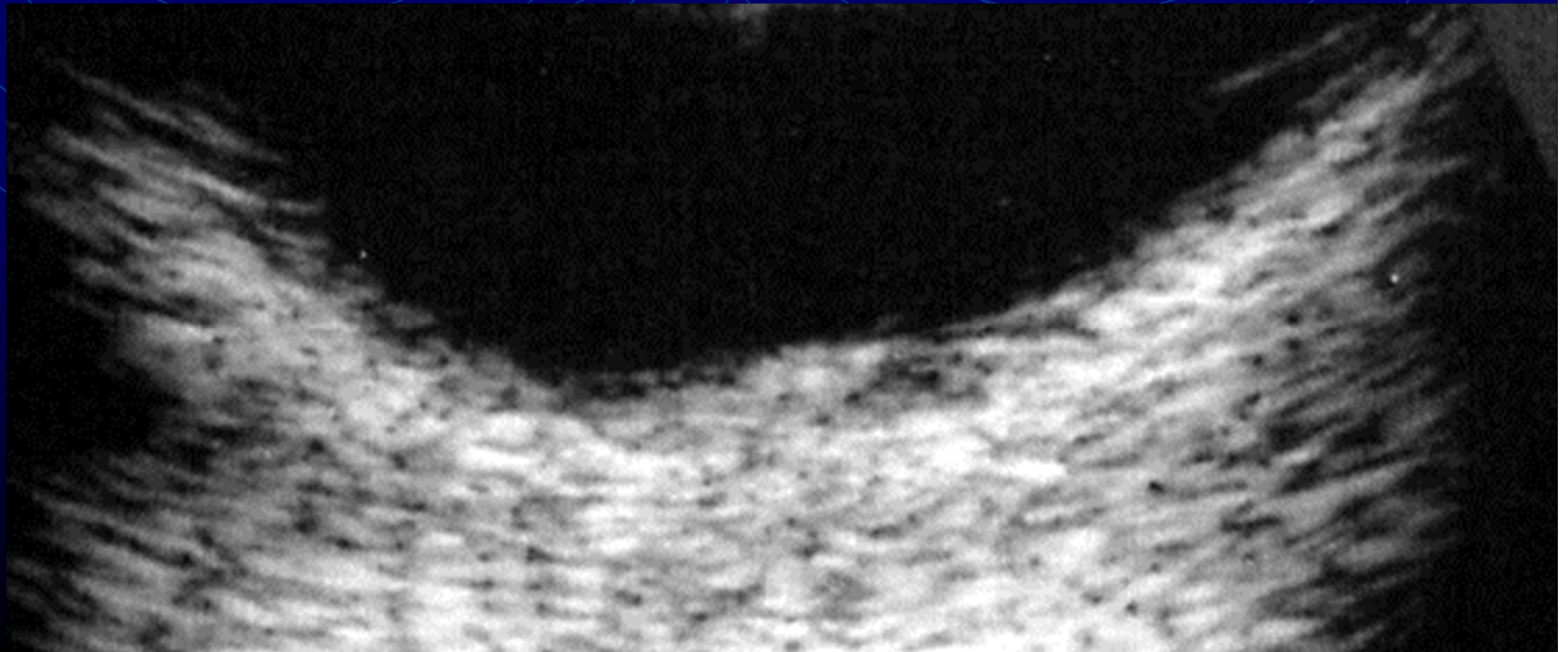


CME e membrana





Edema intraretinico e distacco epitelio pigmentato



# MEZZI DIOTTRICI TRASPARENTI

**Neoformazioni**

**Distacco di retina**

**Lacerazioni**

**Maculopatie**

# TAKE HOME MESSAGE

## Mezzi diottrici trasparenti

	Neoformazioni	Distacco di retina	Lacerazioni	Maculopatie
ECOGRAFIA	+	+	+	-
OCT	-	+/-	+/-	++

## Mezzi diottrici opachi

	Neoformazioni	Distacco di retina	Lacerazioni	Maculopatie
ECOGRAFIA	+	+	+	+/-
OCT	-	-	-	-