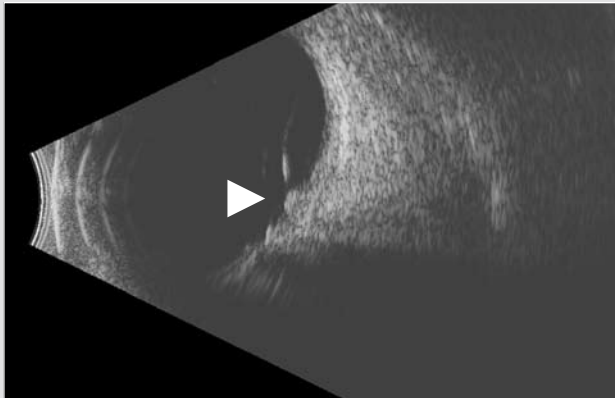
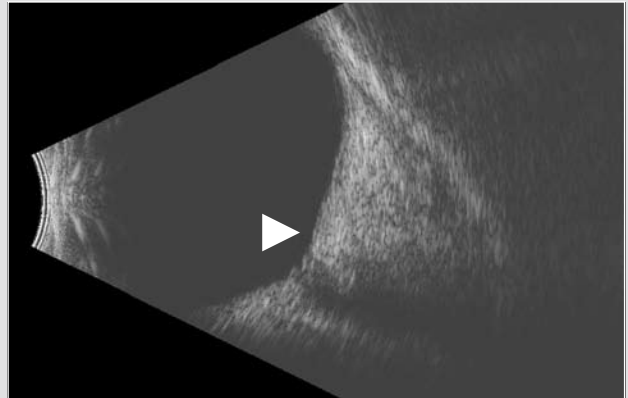


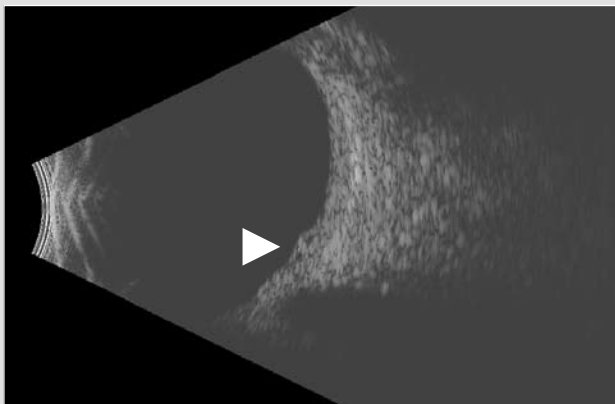
CASE STUDY THREE: **10 MHz B-Scan | Macular Pathology**



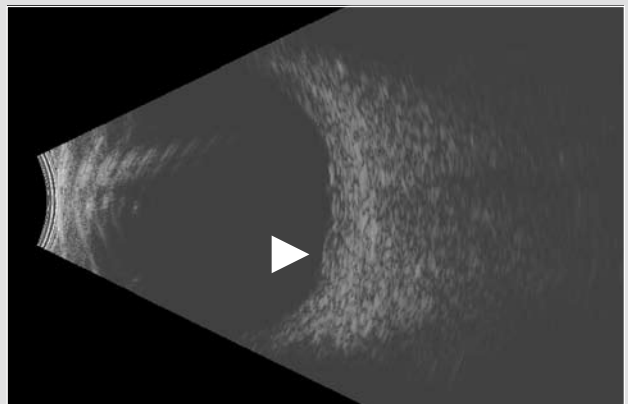
CME caused by Vitreo Macular Traction Syndrome
(Longitudinal Macula View) Posterior hyaloid inserts at nerve, fovea and equator



CME with no Vitreous Traction (Longitudinal Macula View)
Extensive edema altering globe contour; note optic cup



CRVO with Double Macular Cyst (Longitudinal Macula View)
Central Retinal Vein Occlusion



CRVO with Double Macular Cyst (Vertical Macula View)
Central Retinal Vein Occlusion

Headquarters

82 Gilbert Street
Adelaide, SA, 5000 AUSTRALIA
+61 8 8104 5200

Japan

4-3-7 Miyahara 4F, Yodogawa-ku
Osaka 532-0003 JAPAN
+81 6 6396 2250

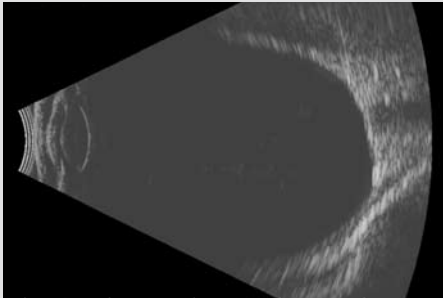
USA

7138 Shady Oak Road
Minneapolis, MN, 55344 USA
1 800 824 7444

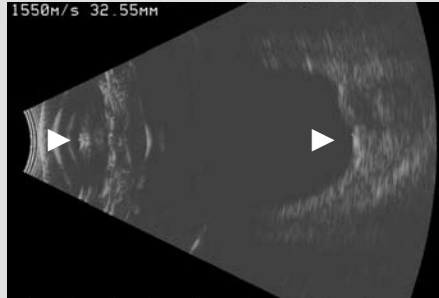
Europe Support Center

108, avenue Marx Dormoy
63000 Clermont-Ferrand FRANCE
+33 4 73 34 18 55

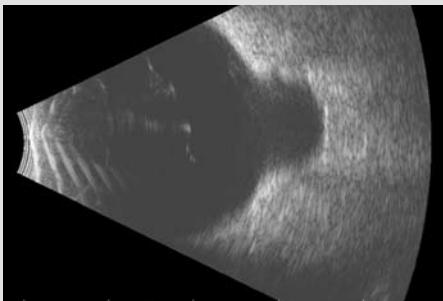
CASE STUDY FOUR: 10 MHz A-Scan and B-Scan | Staphyloma



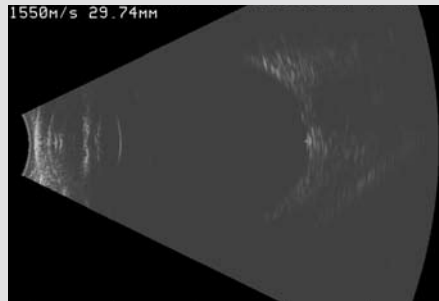
40+ mm Eye
(Horizontal Axial View)



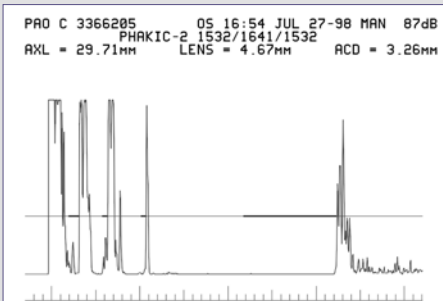
32+ mm Eye with Disk Edema (Method 2)
(Horizontal Axial View)



Unusual Globe Shape
(Horizontal Posterior View)



29+ mm Eye (Method 2)
(Horizontal Axial View)



Left: Measurement of Staphylomatous Eye Immersion Axial Length A-Scan for measurement of Axial Length.

Case Studies in Globe Contour

Axial Length Measurement of Staphyloma: Method 1

- 1 Perform immersion biometry, maximize double-peaked cornea and lens echoes. Document measurements of ACD at 1532 m/s for Aqueous and Lens Thickness @ 1641 m/s for crystalline lens.
- 2 Perform horizontal, axial B-Scan and center posterior lens and macula. Measure from Lens to Macula using velocity of 1532 m/s for Vitreous.
- 3 Add ACD and Lens from A-scan to Vitreous length from B-Scan to obtain Axial Length.
- 4 Repeat B-Scan and Vitreous measurement for added accuracy.

Axial Length Measurement of Staphyloma: Method 2

- 1 Perform immersion biometry, maximize double-peaked cornea, lens, and retinal echoes.
- 2 On the open globe using copious Tear Gel, perform horizontal, axial B-Scan and center double echo from cornea, posterior lens, and macula region. Measure from Anterior Cornea to Macula using velocity of 1550 m/s for an average velocity measurement.
- 3 Compare Axial Length measurements between the A-Scan and B-Scan.
- 4 Repeat B-Scan and measurement for added accuracy.



Headquarters

82 Gilbert Street
 Adelaide, SA, 5000 AUSTRALIA
 +61 8 8104 5200

Japan

4-3-7 Miyahara 4F, Yodogawa-ku
 Osaka 532-0003 JAPAN
 +81 6 6396 2250

USA

7138 Shady Oak Road
 Minneapolis, MN, 55344 USA
 1 800 824 7444

Europe Support Center

108, avenue Marx Dormoy
 63000 Clermont-Ferrand FRANCE
 +33 4 73 34 18 55