ANNULAR ARRAY ULTRASOUND

OPTIC NERVE AND ORBIT

VARIABLE FOCUS 18 and 12 MHz

Bascom Palmer EYE INSTITUTE
UNIVERSITY OF MIAMI HEALTH SYSTEM

Weill Cornell Medicine

VITREOUS RETINA MACULA CONSULTANTS OF NEW YORK

ANNULAR ARRAY ULTRASOUND

NO FINANCIAL DISCLOSURE

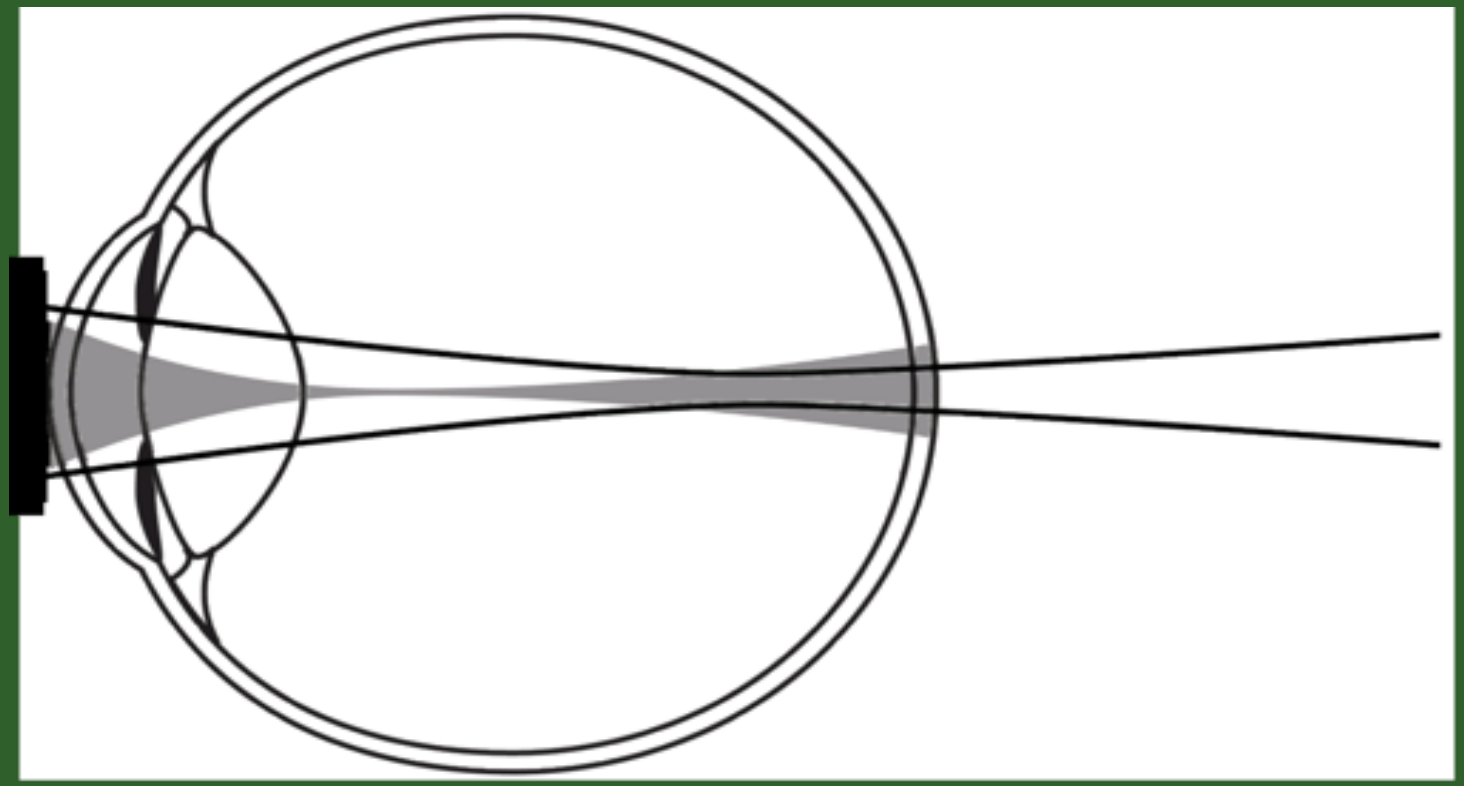
ANNULAR ARRAY ULTRASOUND

TAKE HOME

- INCREASED AXIAL AND LATERAL RESOLUTION
- IMPROVED IMAGE QUALITY
- RETAINED “REAL” TIME
- IMPROVED ORBITAL IMAGING

ANNULAR ARRAY

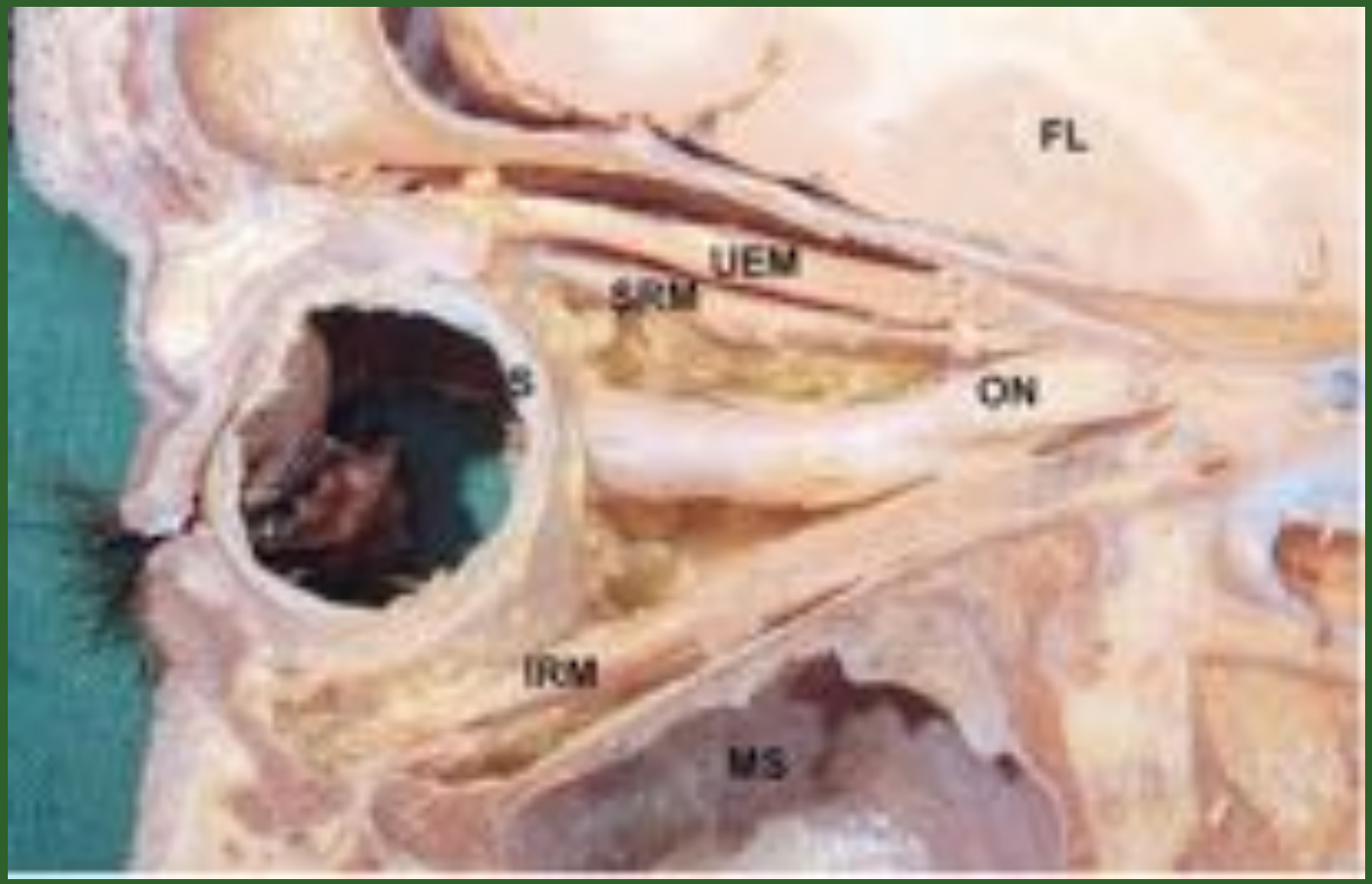
MOVEABLE FOCUS



Bascom Palmer EYE INSTITUTE

University of Miami SCHOOL OF MEDICINE

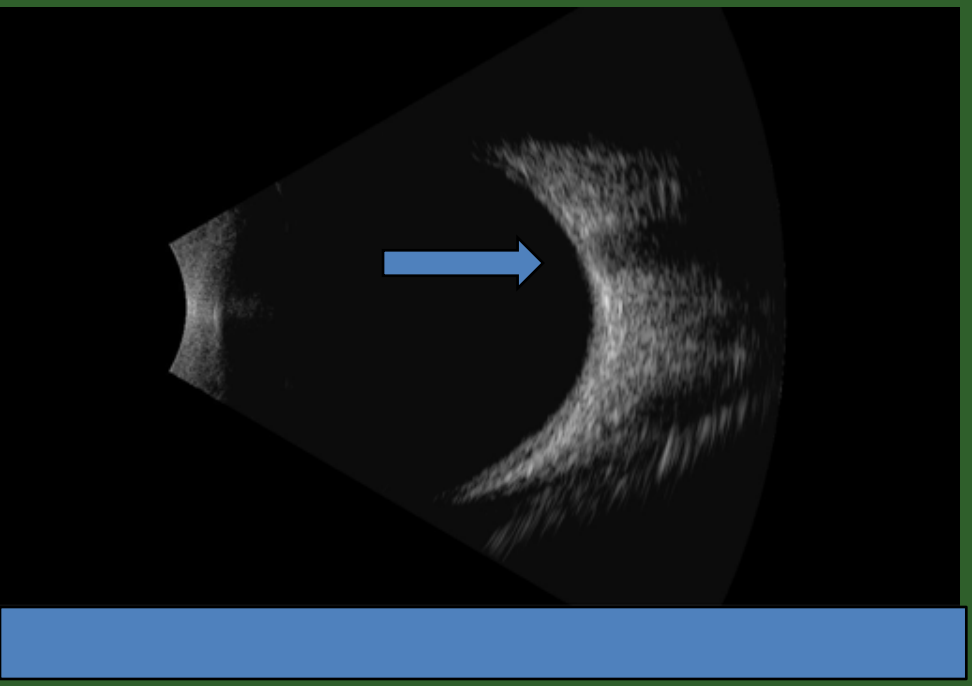
OPTIC NERVE AND ORBIT

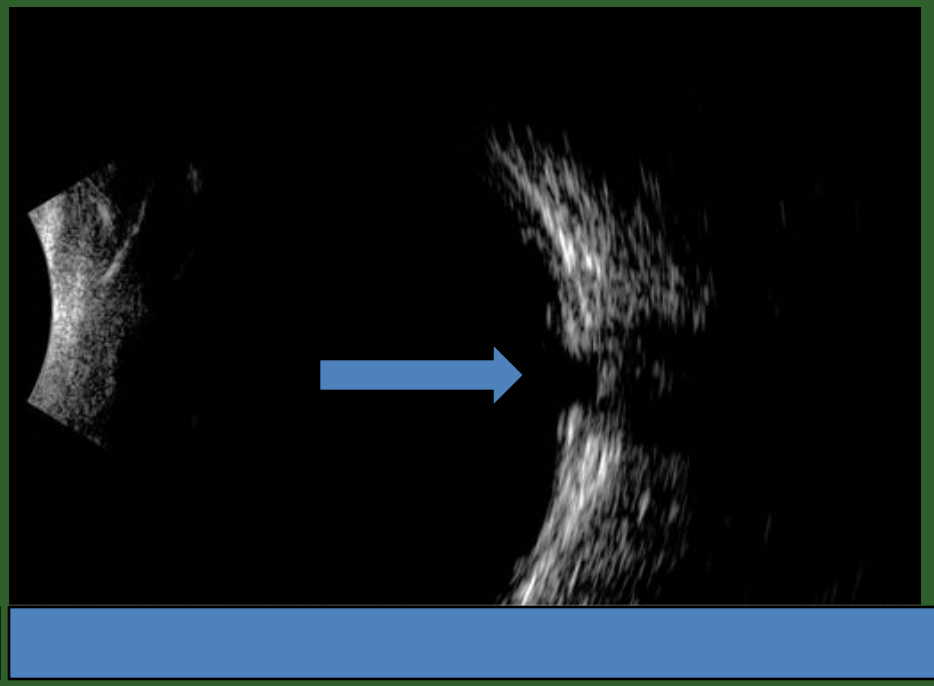


OPTIC NERVE HEAD

- CUPPING

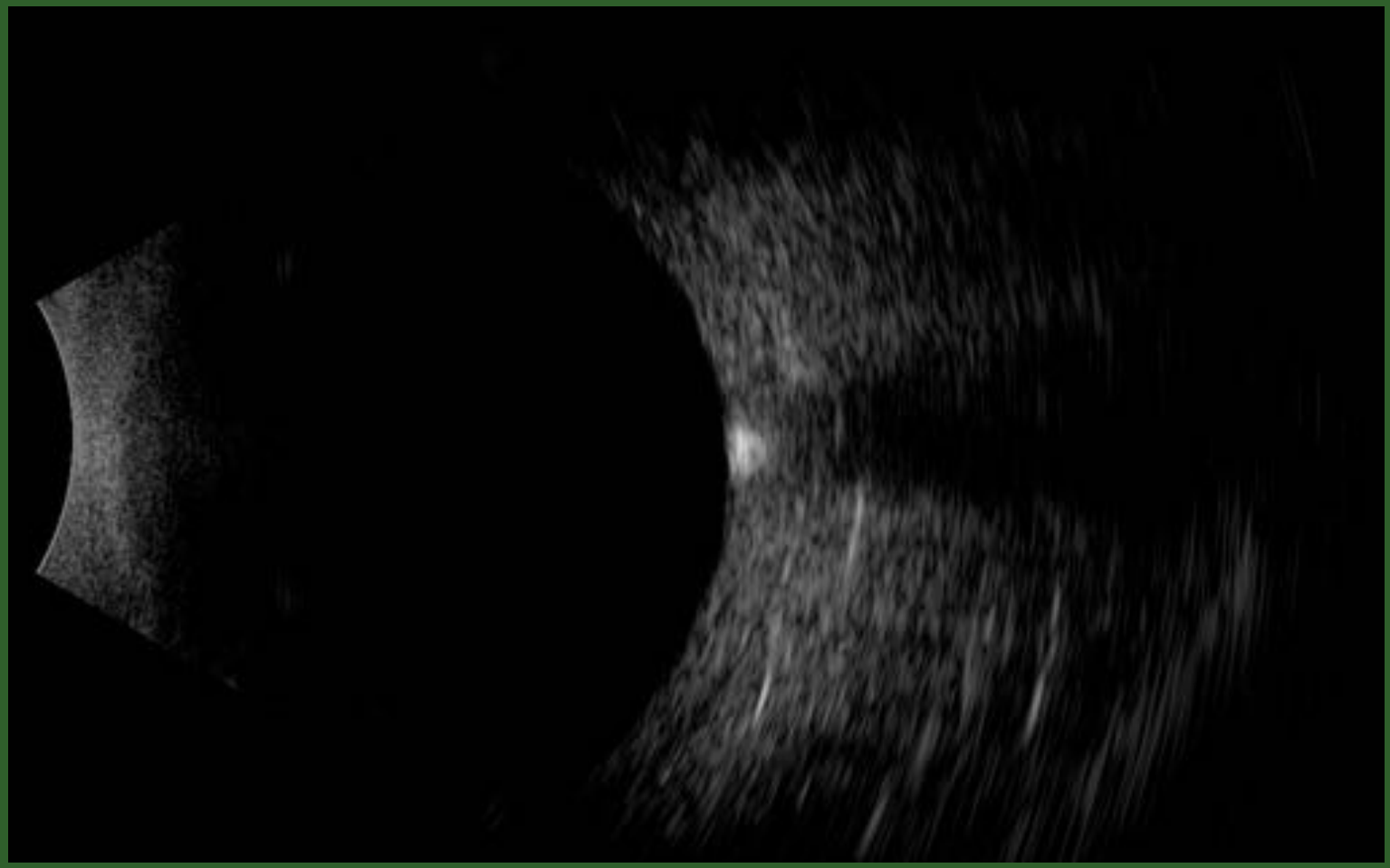
OPTIC NERVEHEAD





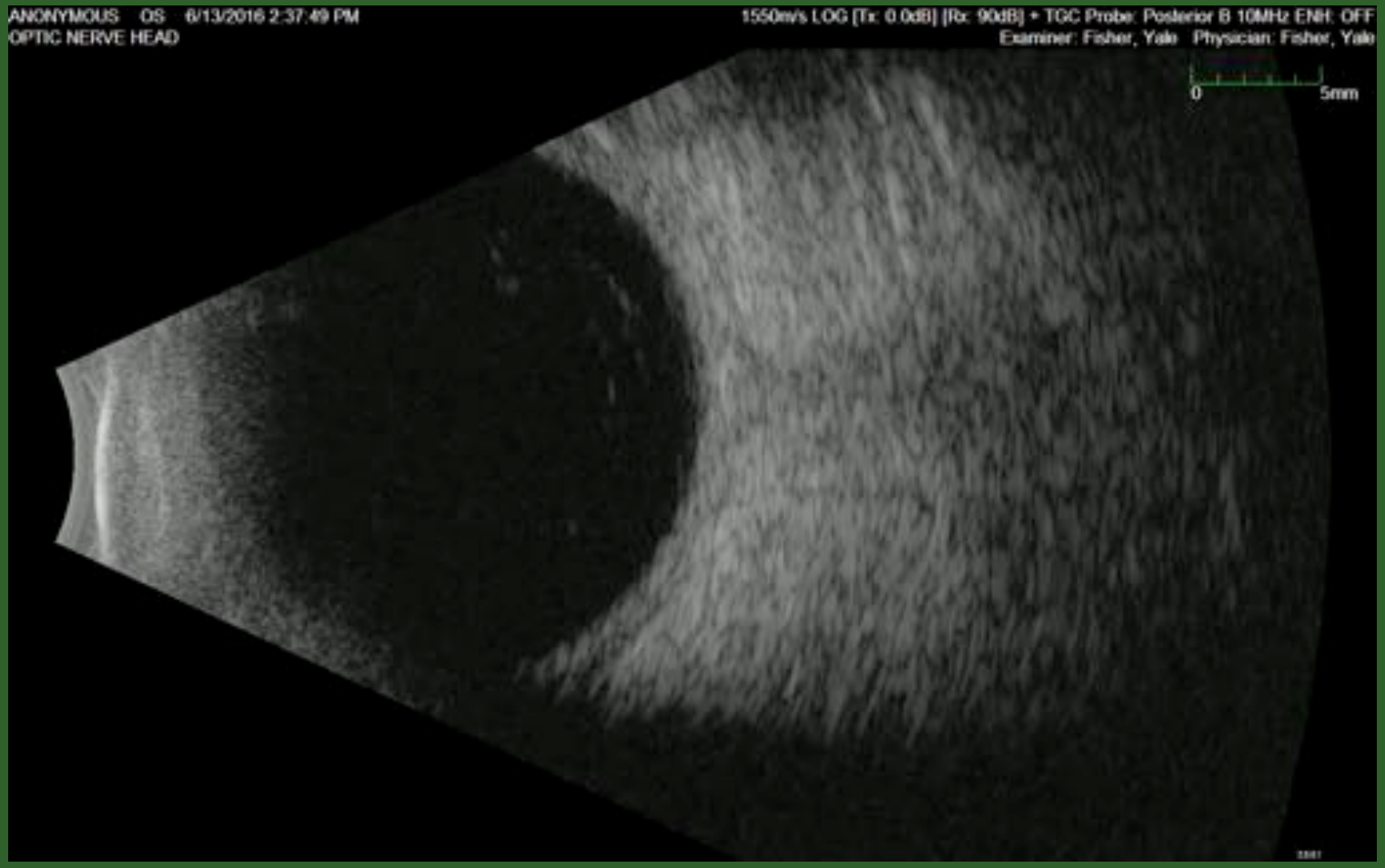
OPTIC NERVE HEAD

- DRUSEN



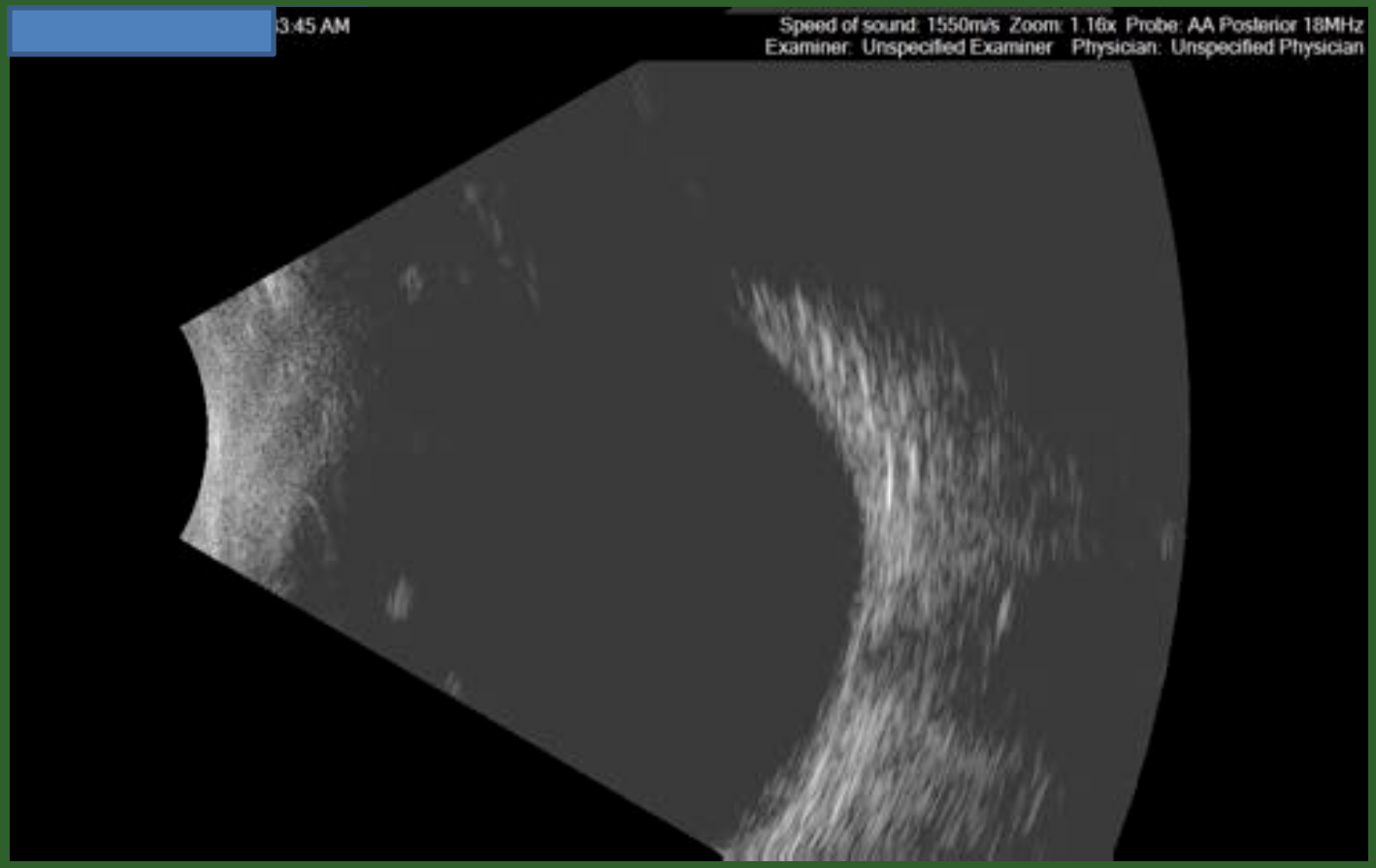
OPTIC NERVE HEAD

- ANTERIOR EMBOLUS



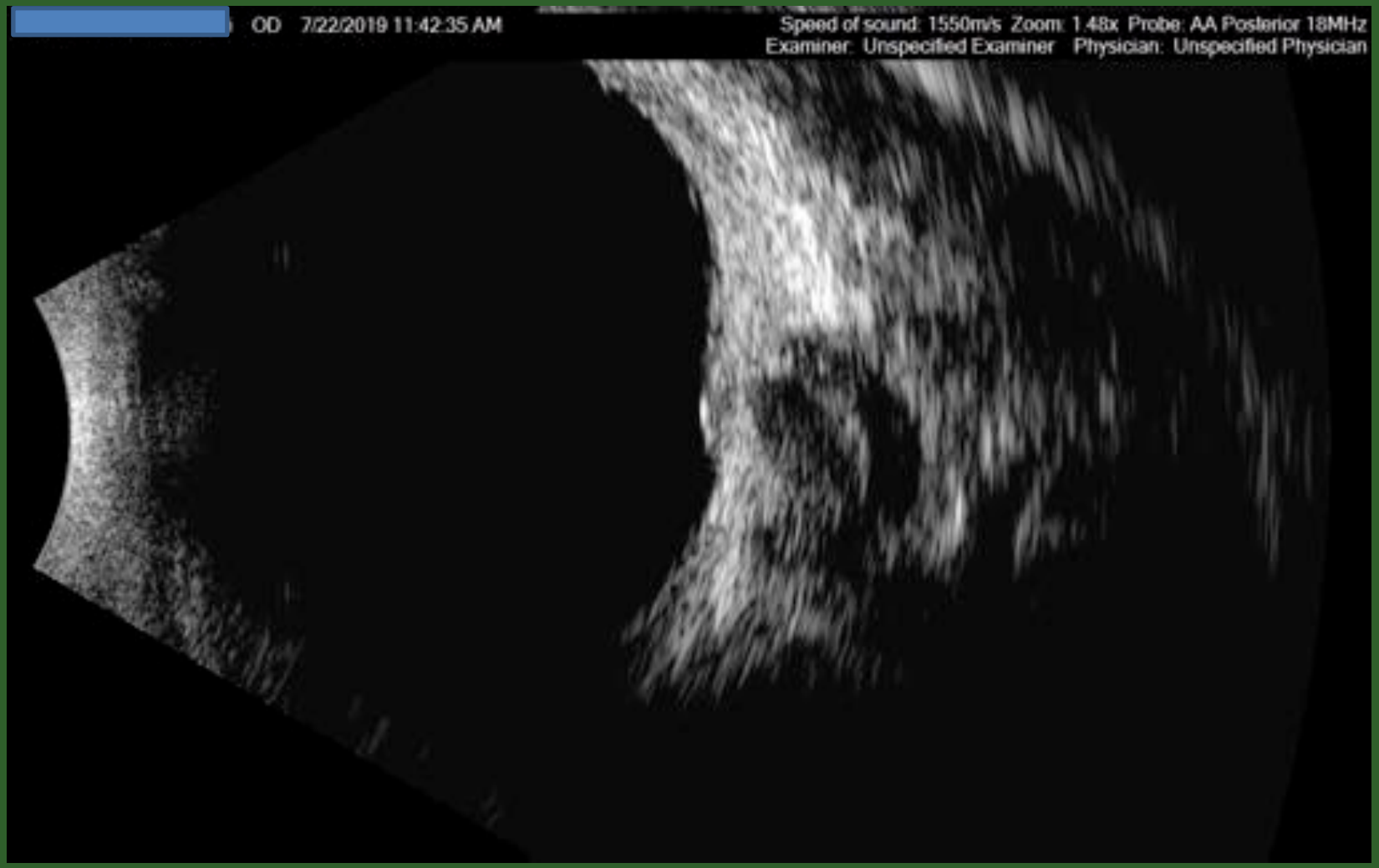
OPTIC NERVE HEAD

- POSTERIOR EMBOLUS



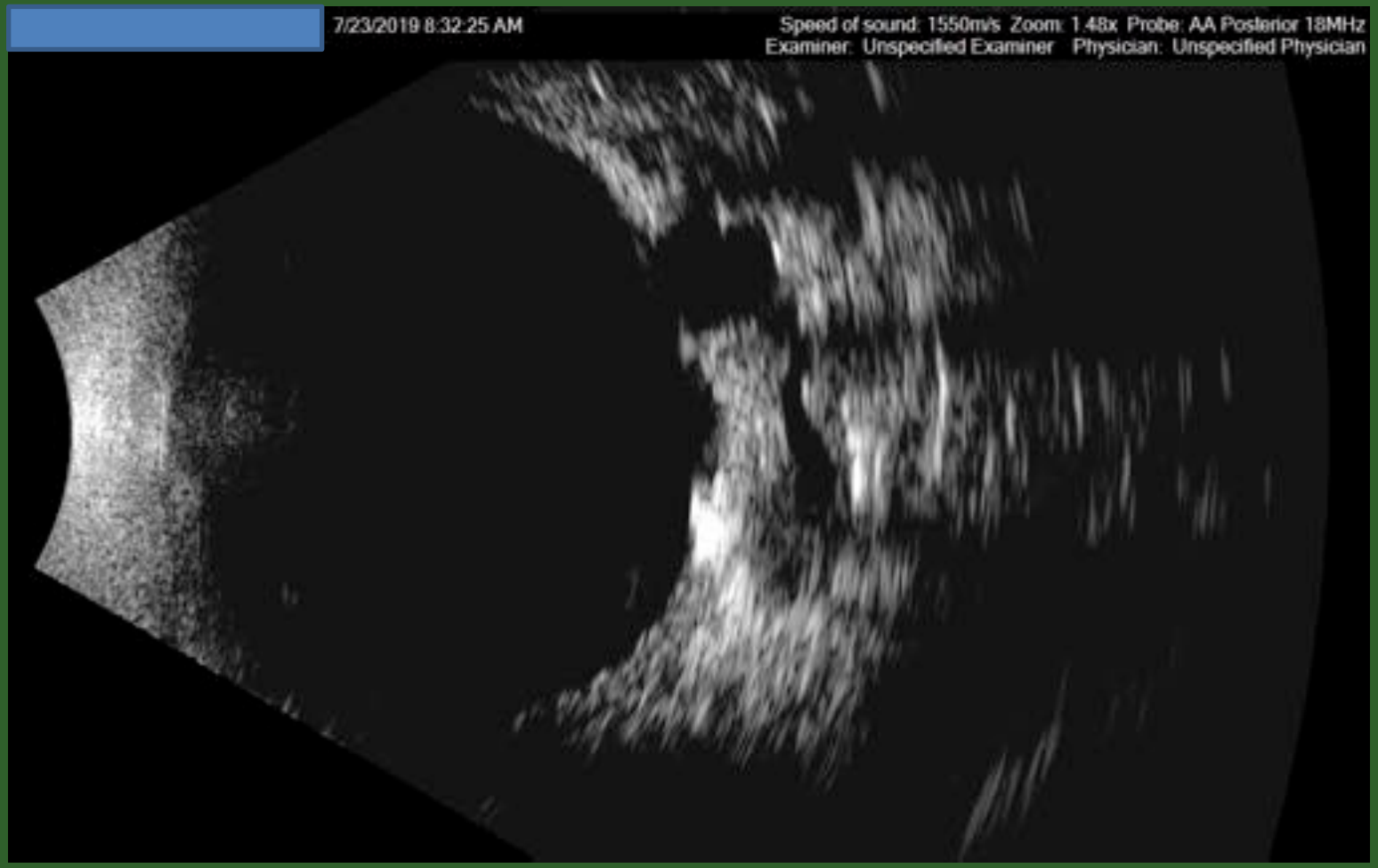
OPTIC NERVE
PAILLIDEMA A-P VIEW

OPTIC NERVE
PAPILLEDEMA TRANSVERSE VIEW



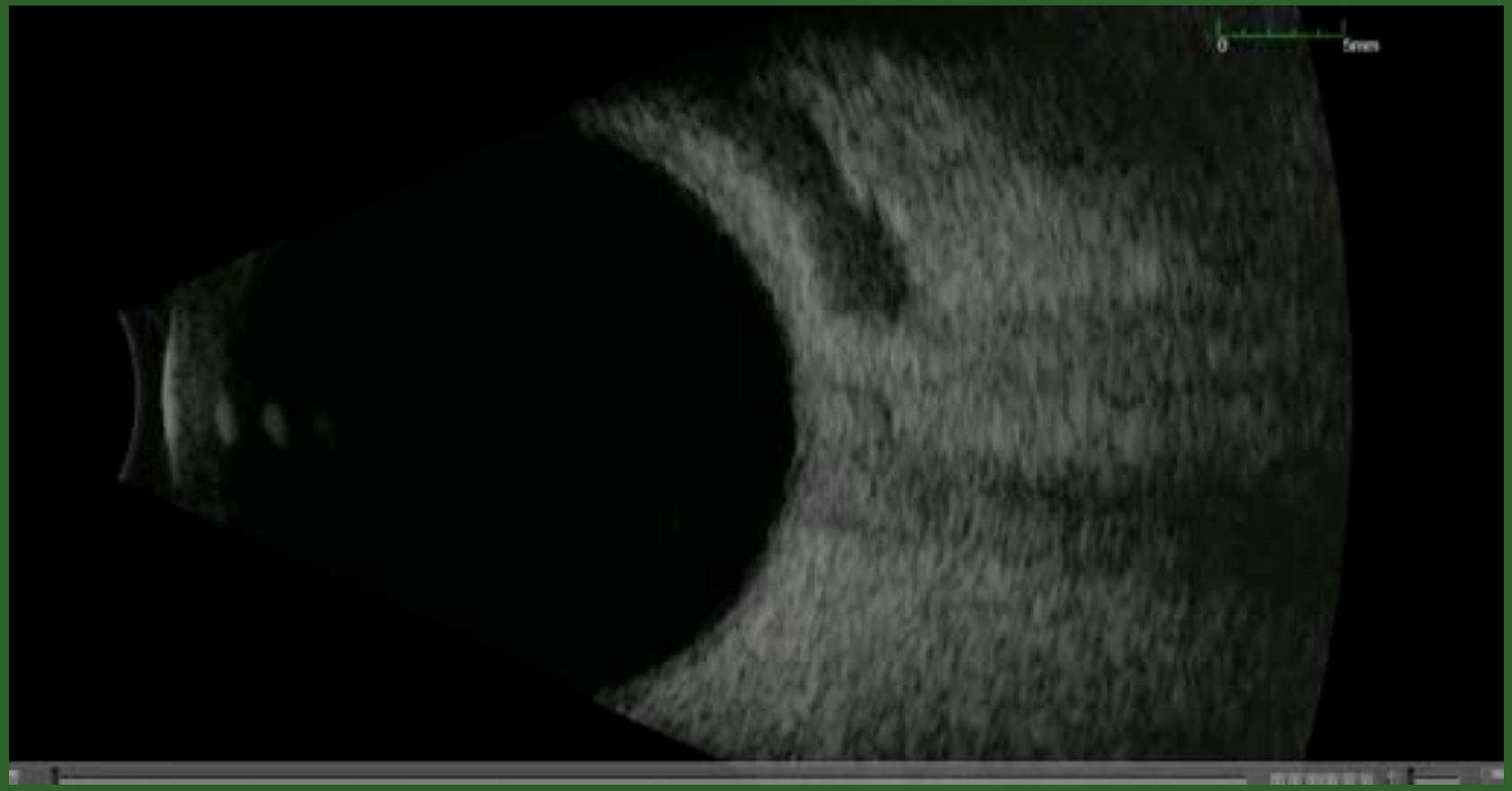
OPTIC NERVE

- COLOBOMA/ORBITAL CYST A-P VIEW



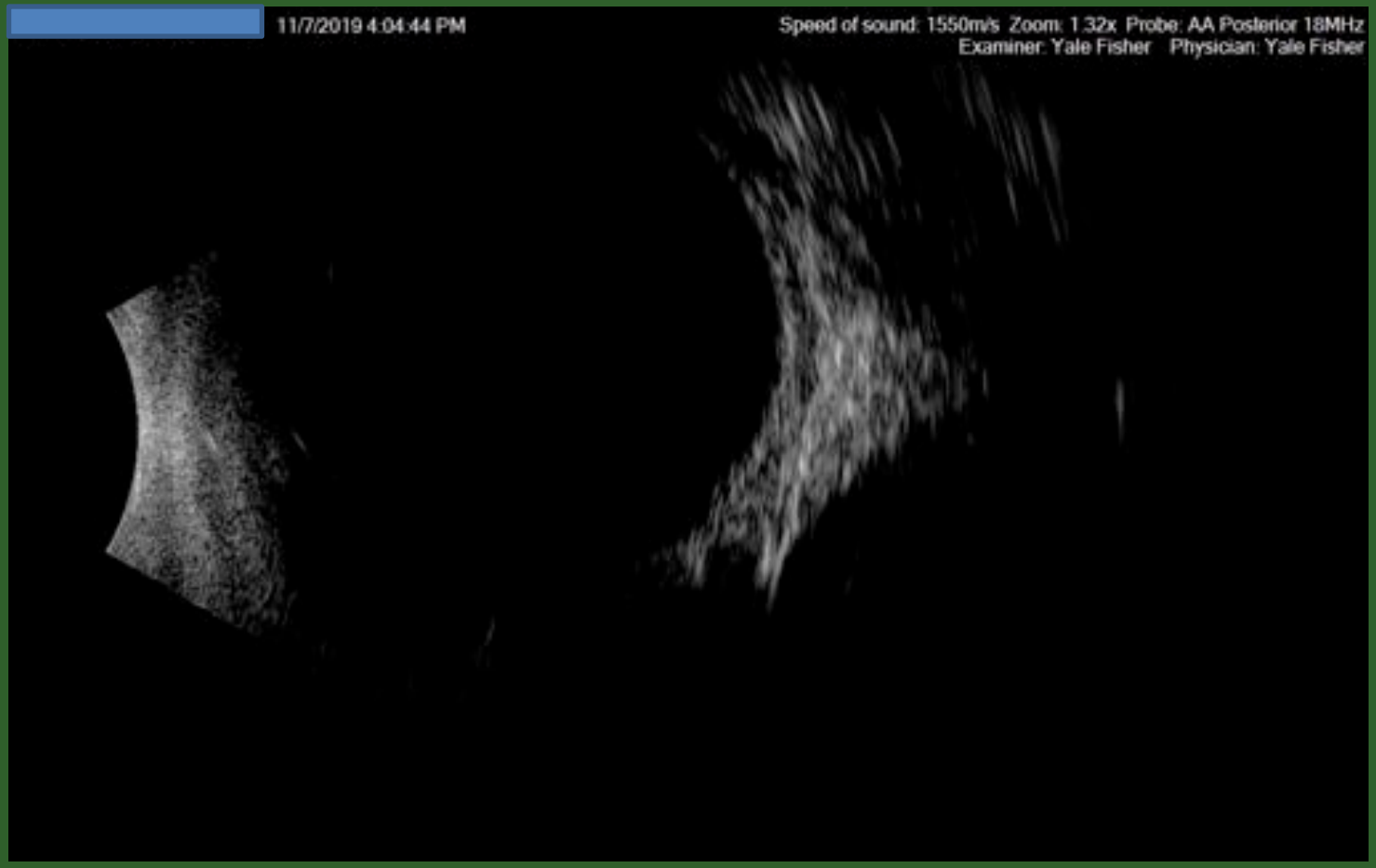
ORBITAL VASCULAR MOVEMENTS

- CAROTID CAVERNOUS FISTULA (10 MHz, single element, courtesy Alexis Laverde)



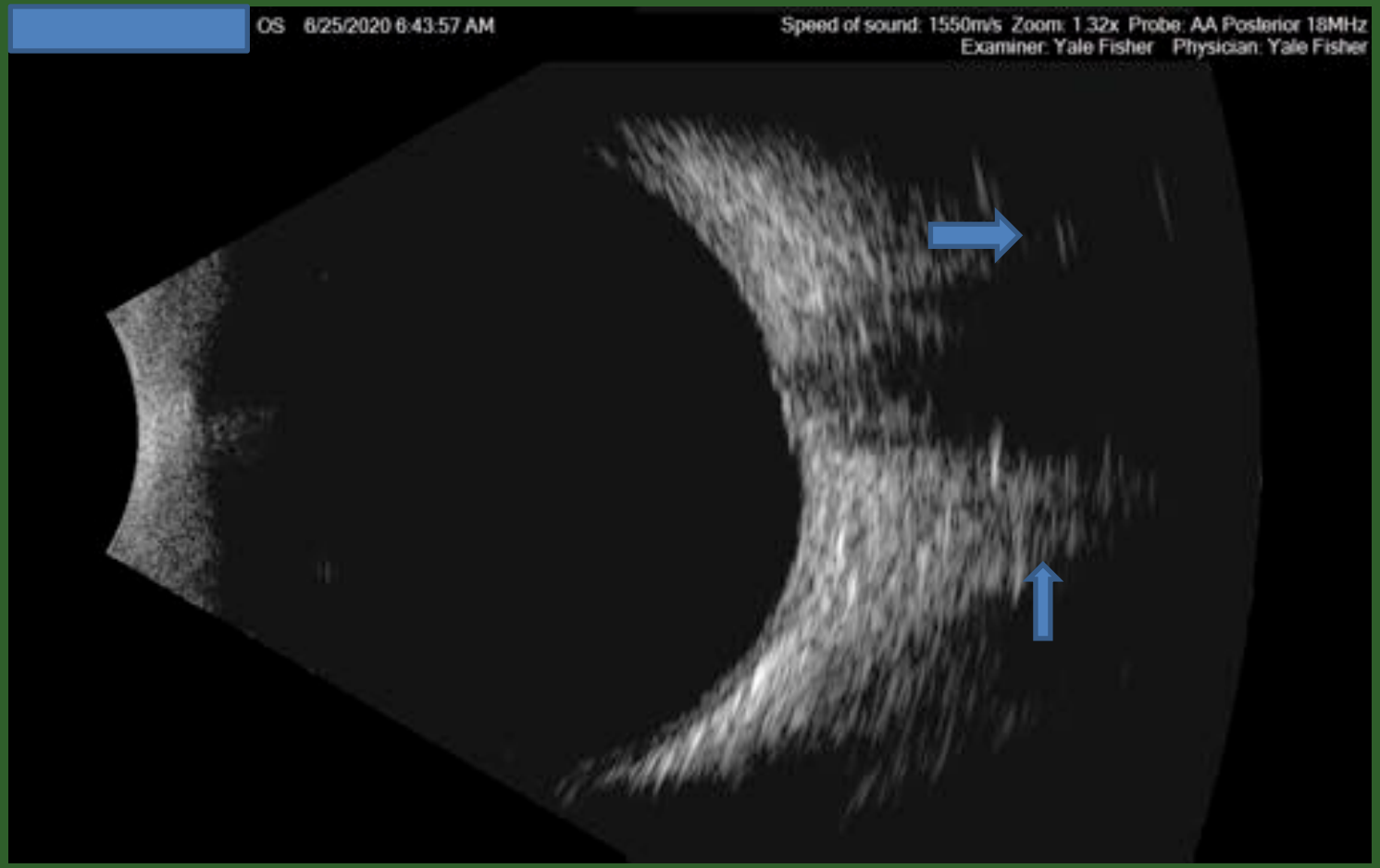
ORBITAL MASS

- CAVERNOUS HEMAGIOMA



ORBITAL VASCULAR MOTION

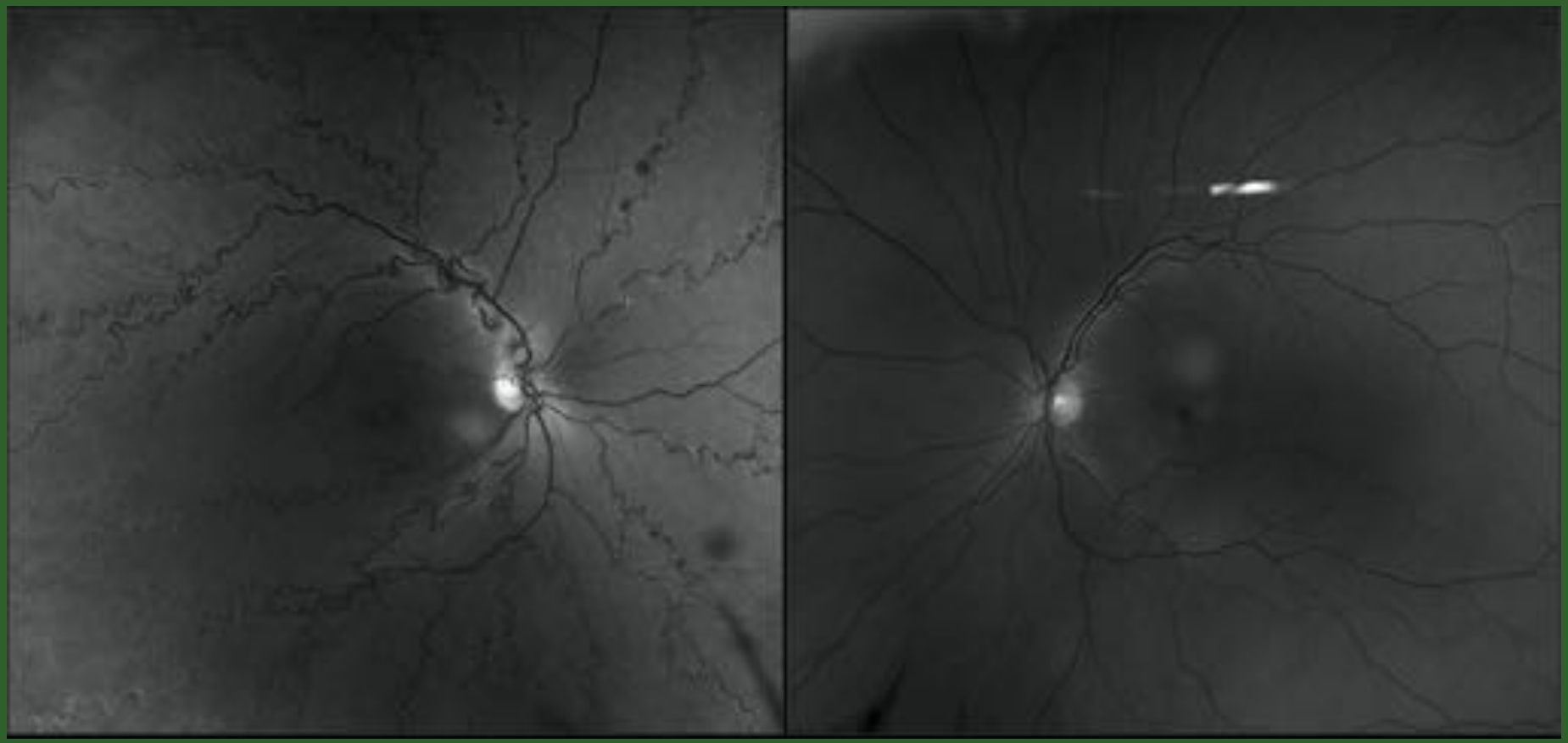
- “NORMAL” MOVEMENT



ORBITAL VASCULAR MOVEMENT

- PRESUMED VASCULAR MASS-(W-MASON)

VASCULAR TORTUOSITY



ORBITAL FOCUS
SPONTANEOUS MOVEMENT

SUMMARY
ANNULAR ARRAY SYSTEM

ADVANTAGES

- MOVEABLE FOCUS
- IMPROVED IMAGE QUALITY
- RESOLUTION (12, 18 MHz)
- PATTERN RECOGNITION

SUMMARY

DISADVANTAGES

- ULTRASOUND EXPERIENCE
- CONTROL VARIABLES
- SOFTWARE LOGISTICS