ANNULAR ARRAY ULTRASOUND

OPTIC NERVE AND ORBIT

VARIABLE FOCUS 18 and 12 MHz
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
OPTIC NERVE HEAD

• CUPPING
OPTIC NERVEHEAD
OPTIC NERVE HEAD

• DRUSEN
OPTIC NERVE HEAD

- ANTERIOR EMBOLUS
OPTIC NERVE HEAD

• POSTERIOR EMBOLUS
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