

Ocular ultrasound

- very small footprint /higher frequency than the standard vascular range (> 10 MHz, as opposed to the standard 7–10 MHz).
- **coronal technique** small footprint probe is placed in the temporal window over the temporal bone
- **Through the lens technique**
- Apply a clear film adhesive strip over the closed lid of the eye before applying the gel
- acquire images in two planes(transverse and longitudinal)

Normal ultrasound of the eye

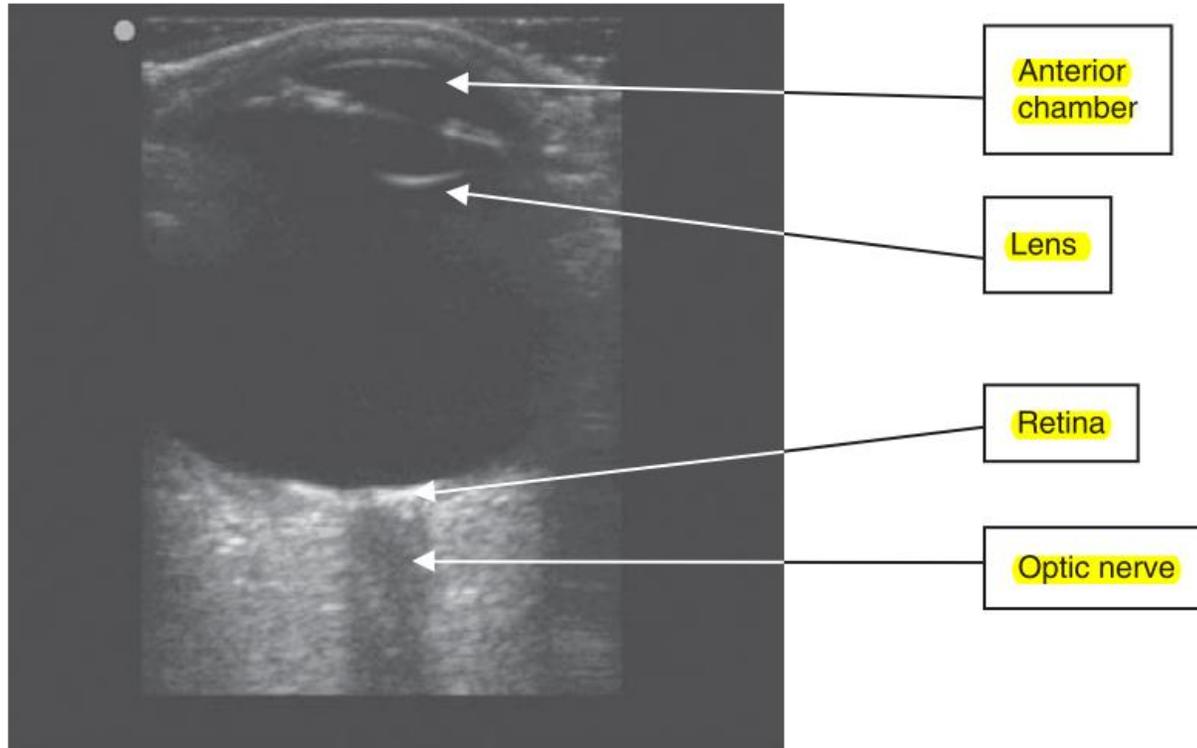


Figure 10.1

Normal ultrasound of the eye.

Normal optic nerve sheath

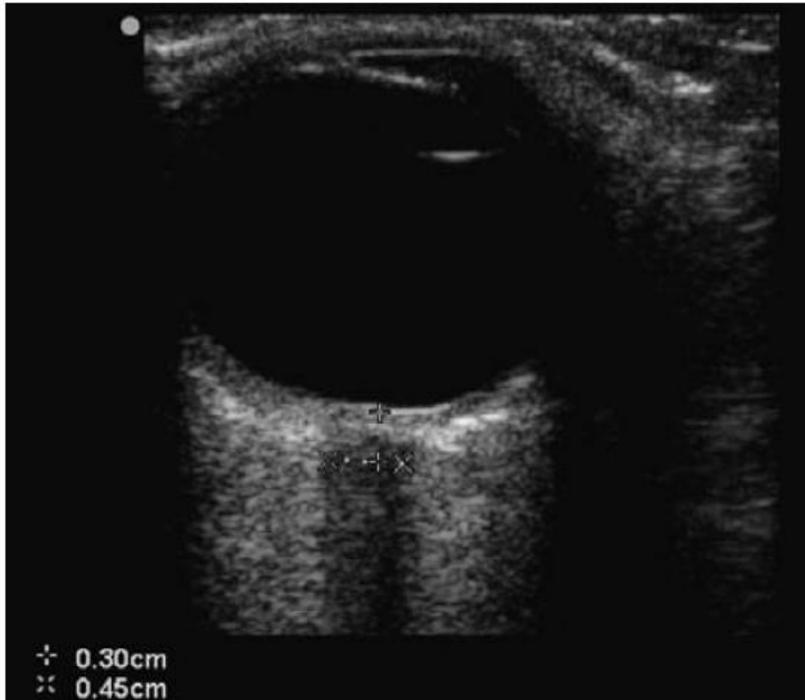


Figure 10.3

Normal optic nerve sheath measurement. Sheath diameter 3 mm posterior to retina = 4.5 mm.

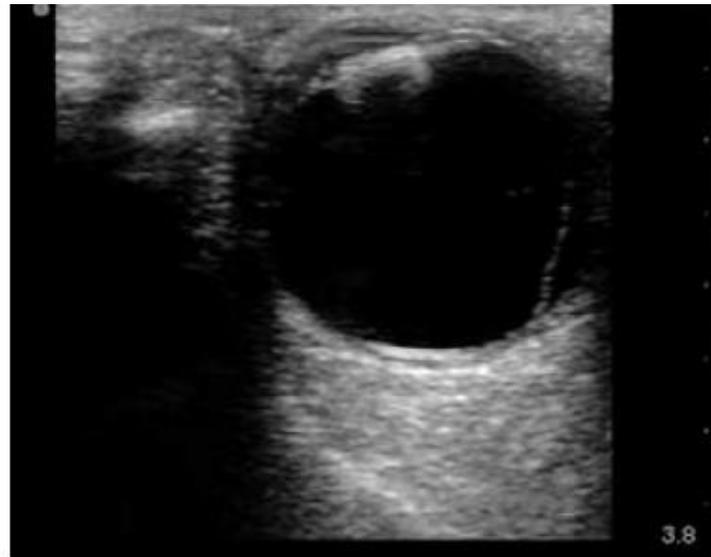
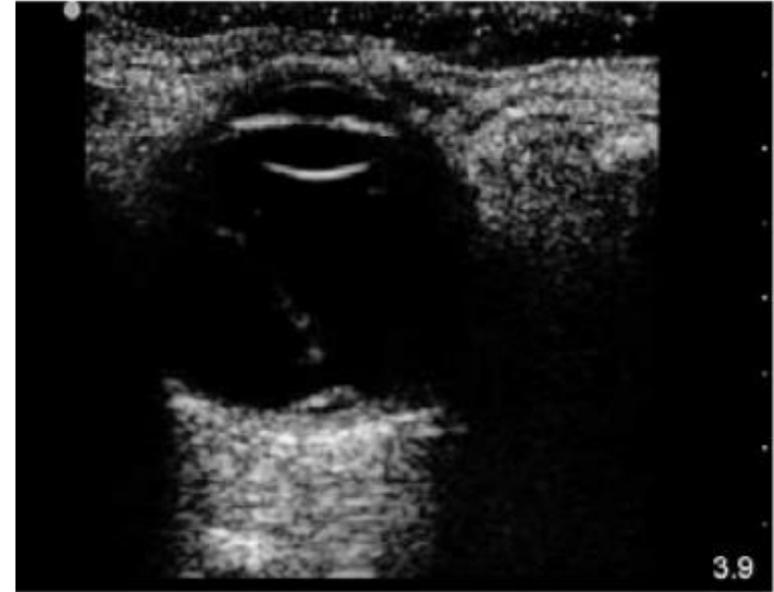
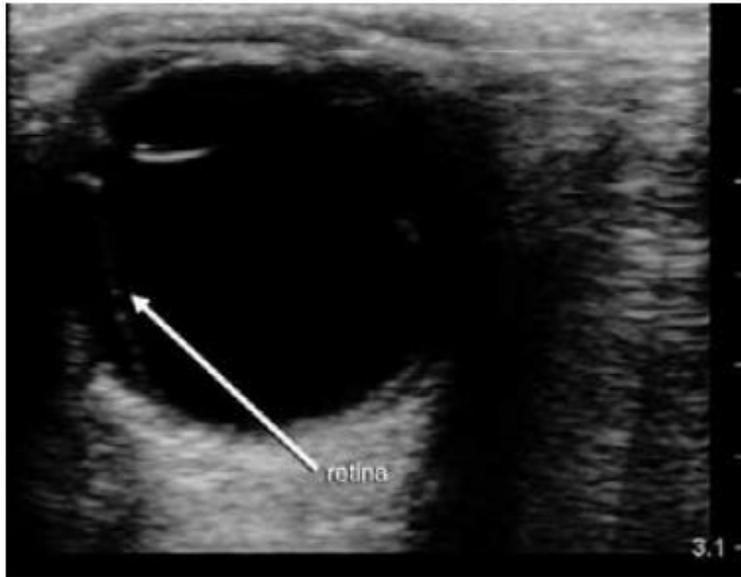


Retinal detachment

The retina is not seen unless it is detached from the posterior aspect of the globe.



Retinal detachment



- Measure optic nerve sheath 3 mm posterior to the retina
- optic nerve sheath diameter > 5 mm with invasive ICP measurements as a gold standard

Lens dislocation

