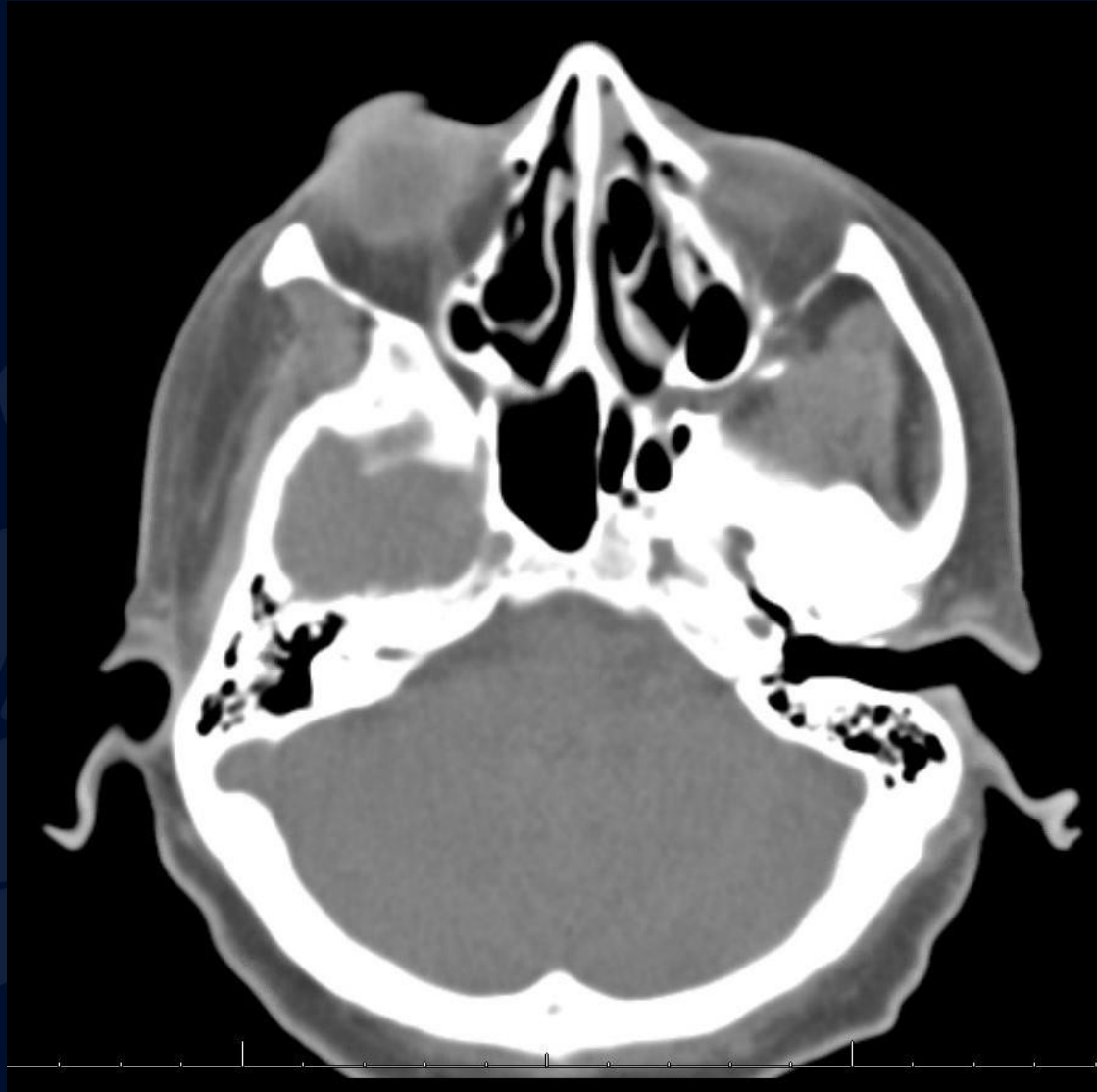
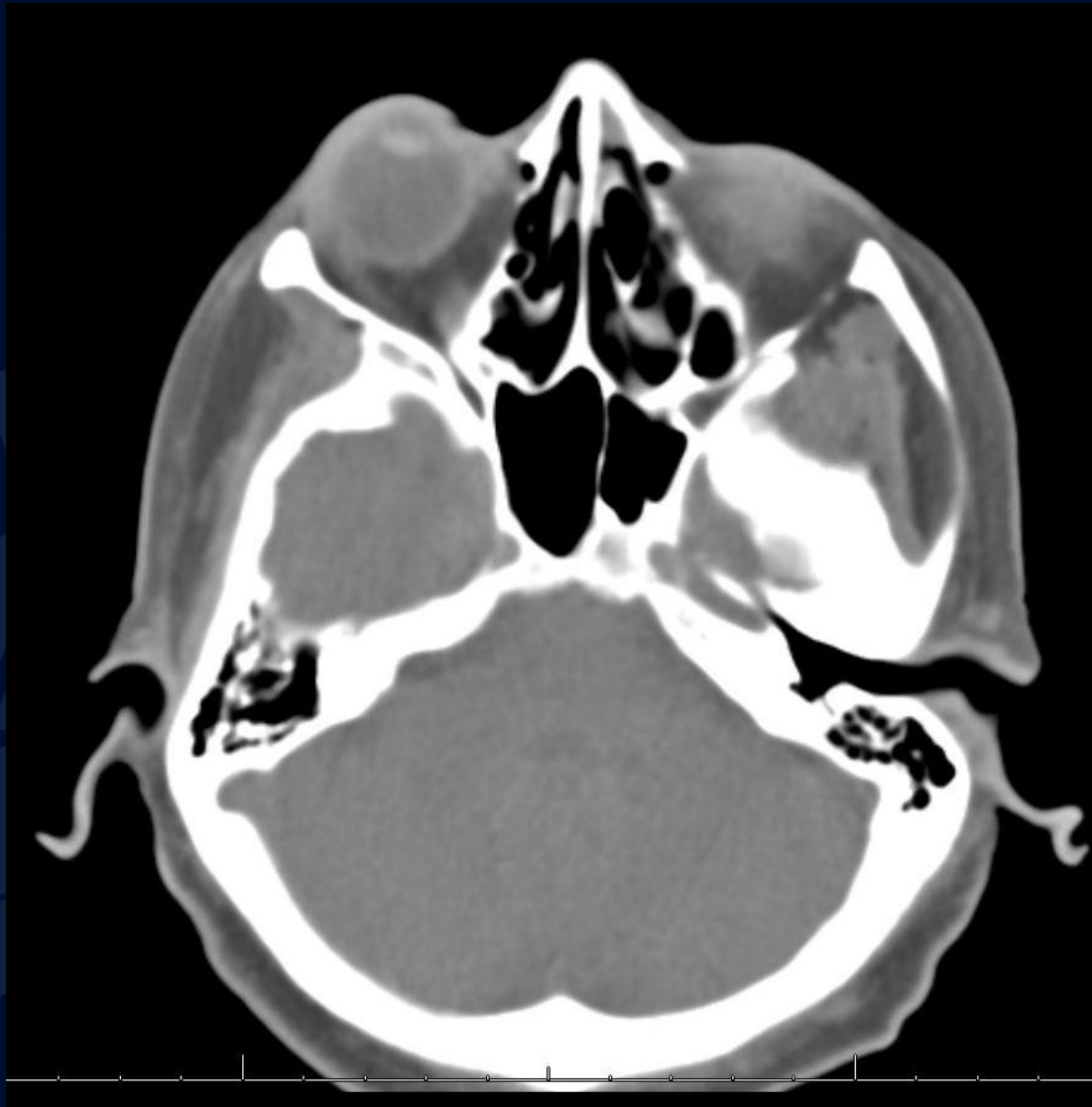
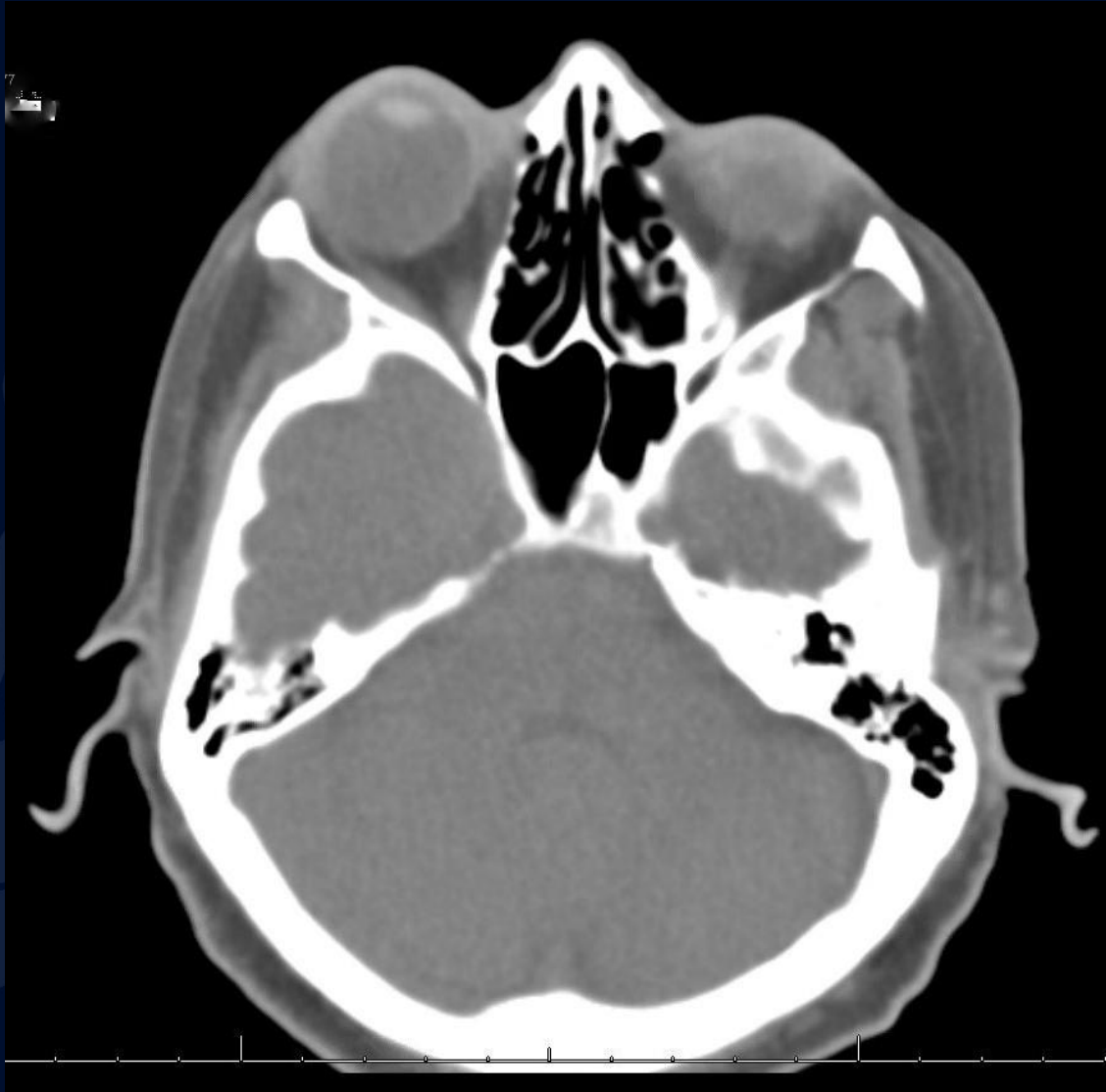


68 year-old female with history  
of R eye myopia, partial  
inferior visual field deficit, and  
proptosis

Kyle Robey, MS3  
Aladdin Tarakji, M.D.











**JCONN**  
**HEALTH**

RADIOLOGY











**UConn**  
**HEALTH**

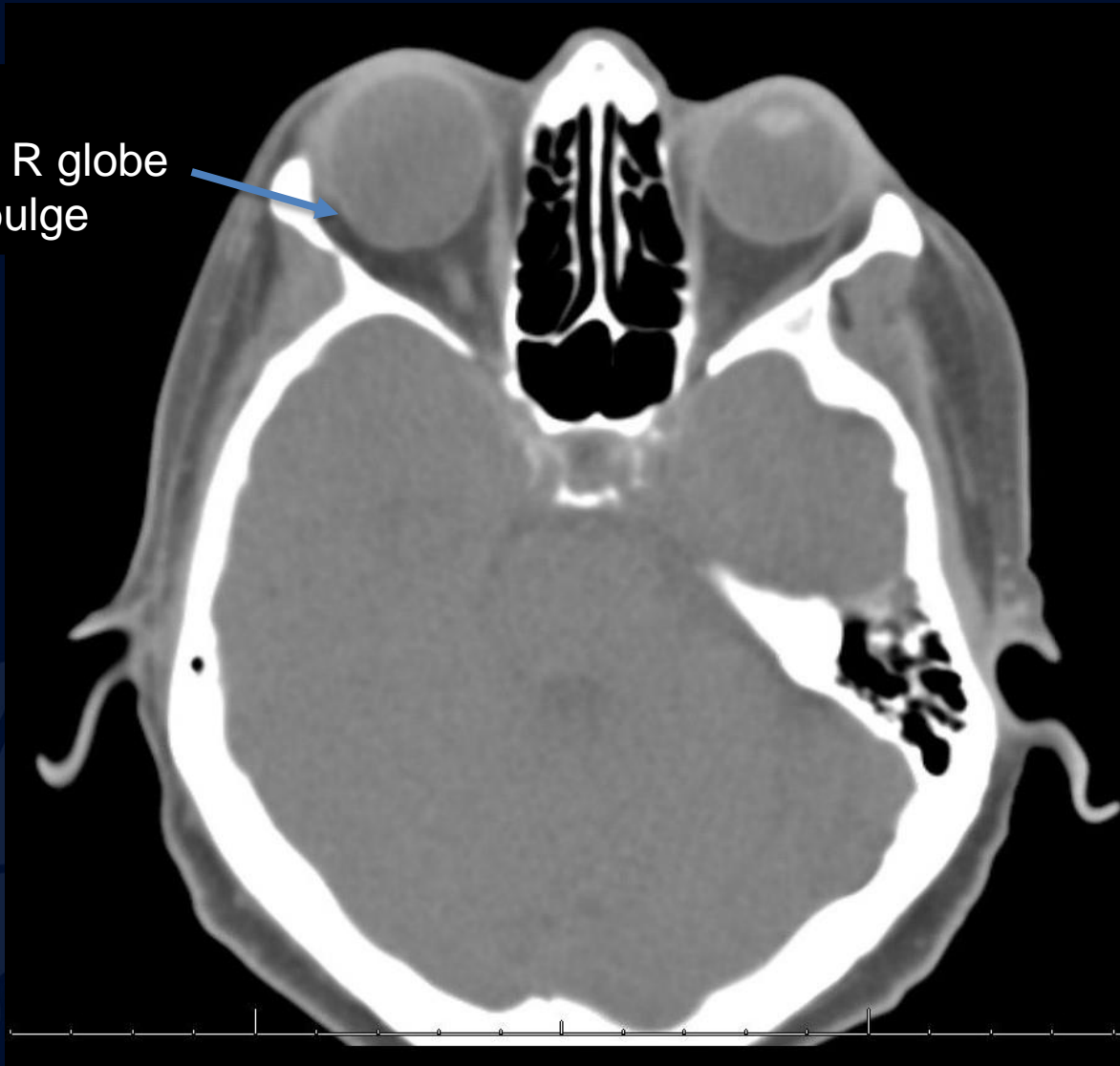
RADIOLOGY

A large, stylized oak leaf graphic in a dark blue color, positioned on the left side of the slide. It features detailed vein patterns and a lobed edge.

?

# Posterior staphyloma

Asymmetric  
enlargement of R globe  
with posterior bulge



# Staphyloma

## Etiology:

- Associated with highly myopic (egg-shaped) eye
  - Often hereditary
- Due to defective sclera (collagenous structural outercoat of eye)
  - When severe, focal outward bulge → staphyloma
- Posterior > anterior
  - Temporal > nasal

## Presentation:

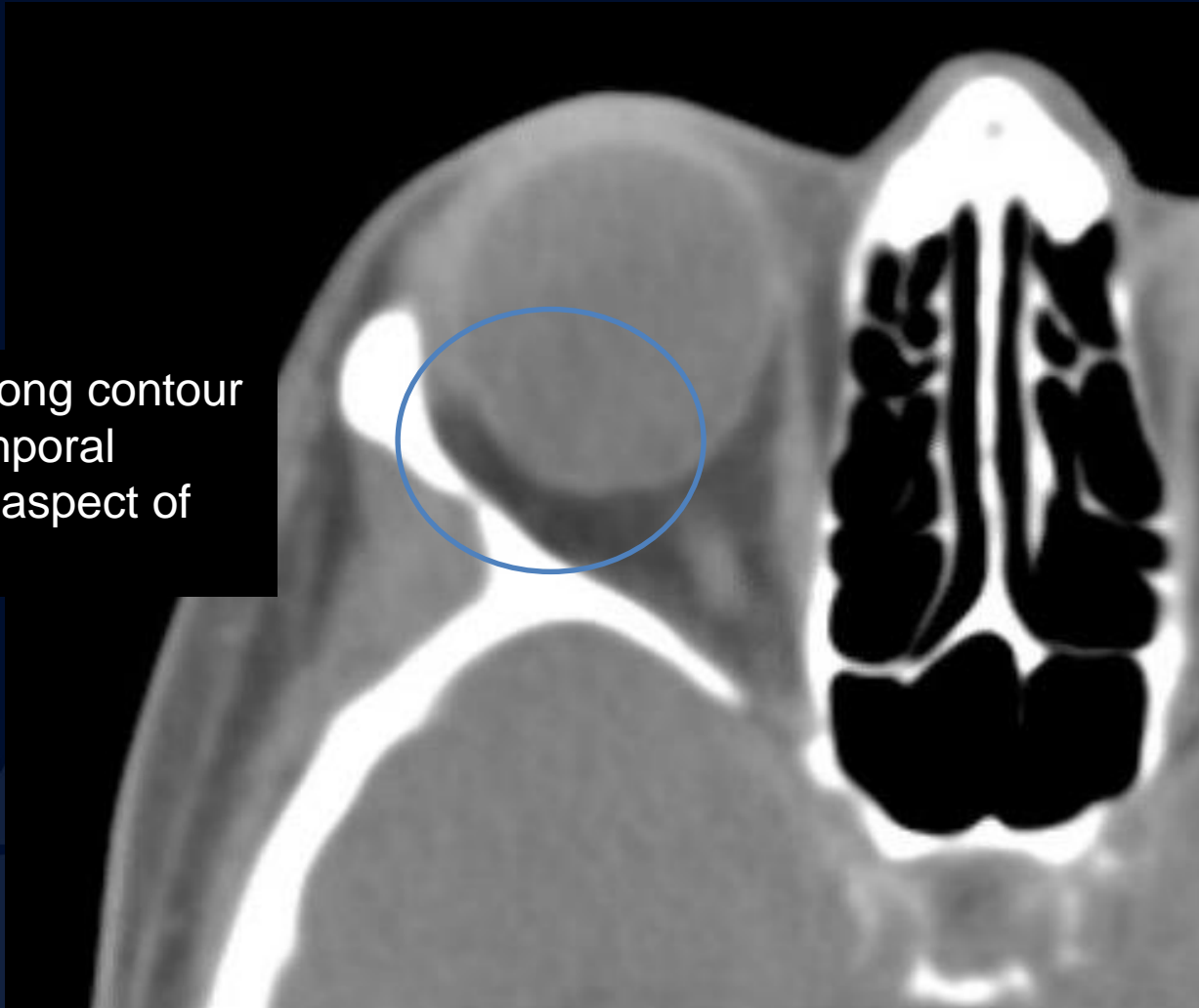
- Visual deficiency/myopia, vision loss in ipsilateral eye

# Staphyloma

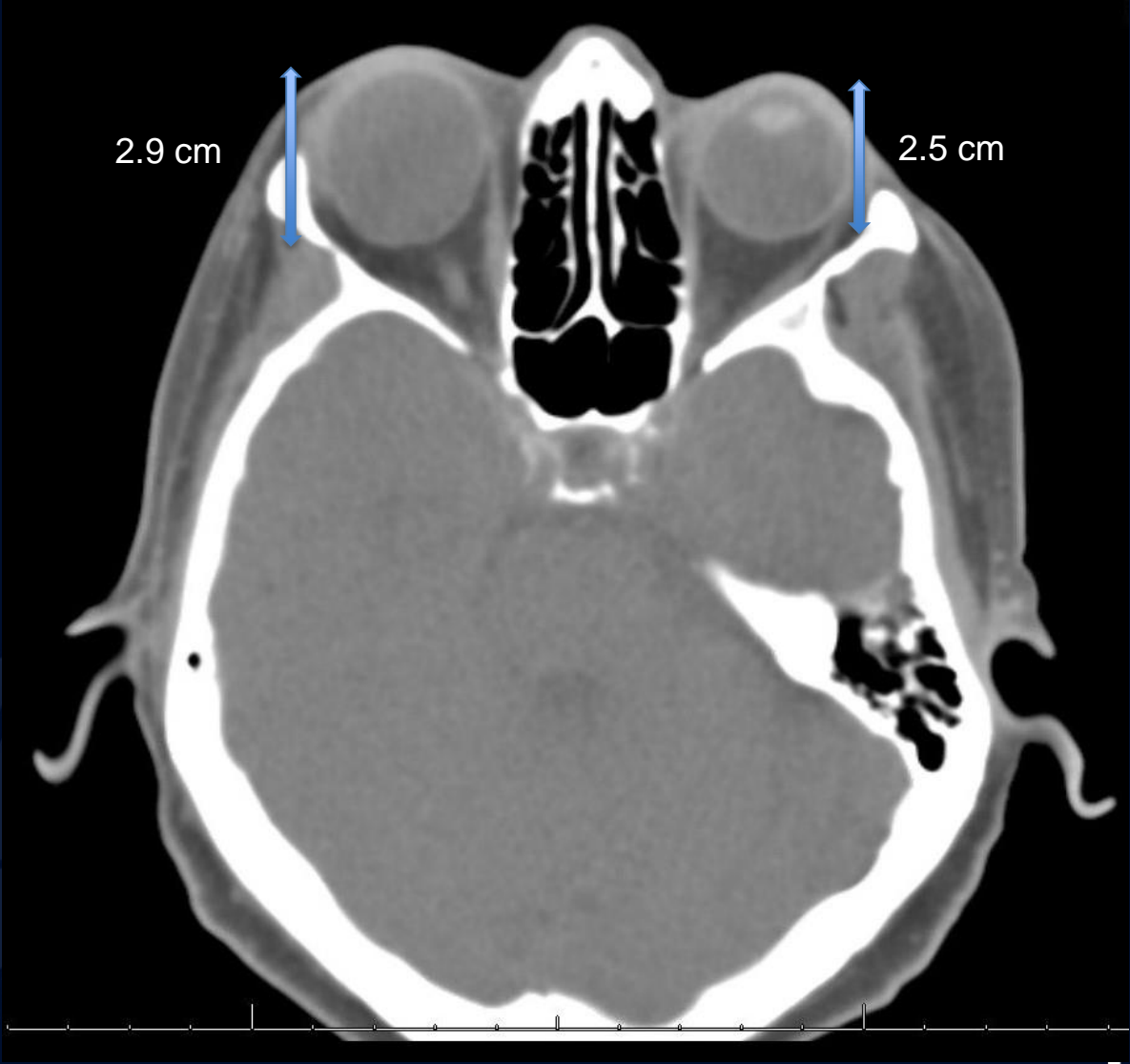
## Diagnosis:

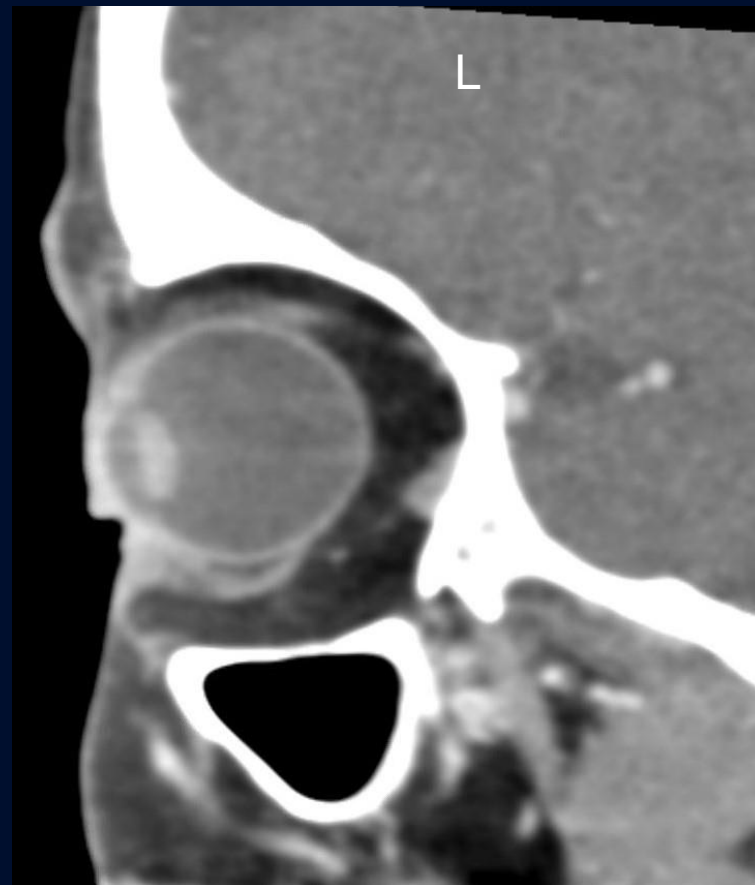
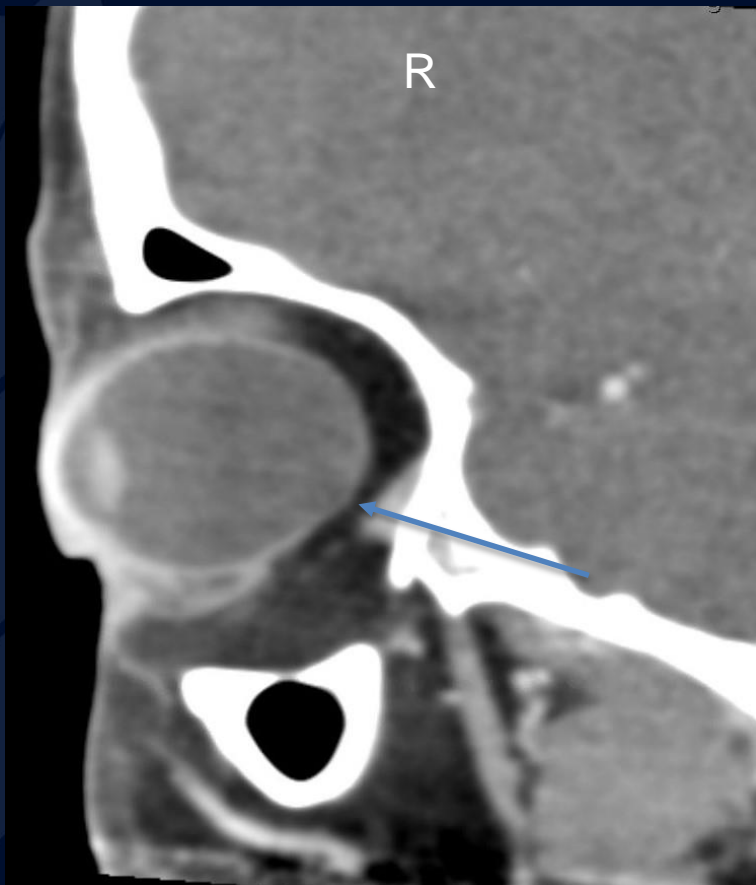
- Via fundoscopy, optical coherence tomography, or imaging
- CT orbits/sella w/wo contrast:
  - Elongation of AP diameter of globe
  - Focal, outward bulge of sclera at posterior pole
  - Thinned/absent uveoscleral rim at site of bulge
  - Lack of enhancement of uveoscleral tissue

Focal oblong contour  
along temporal  
posterior aspect of  
globe







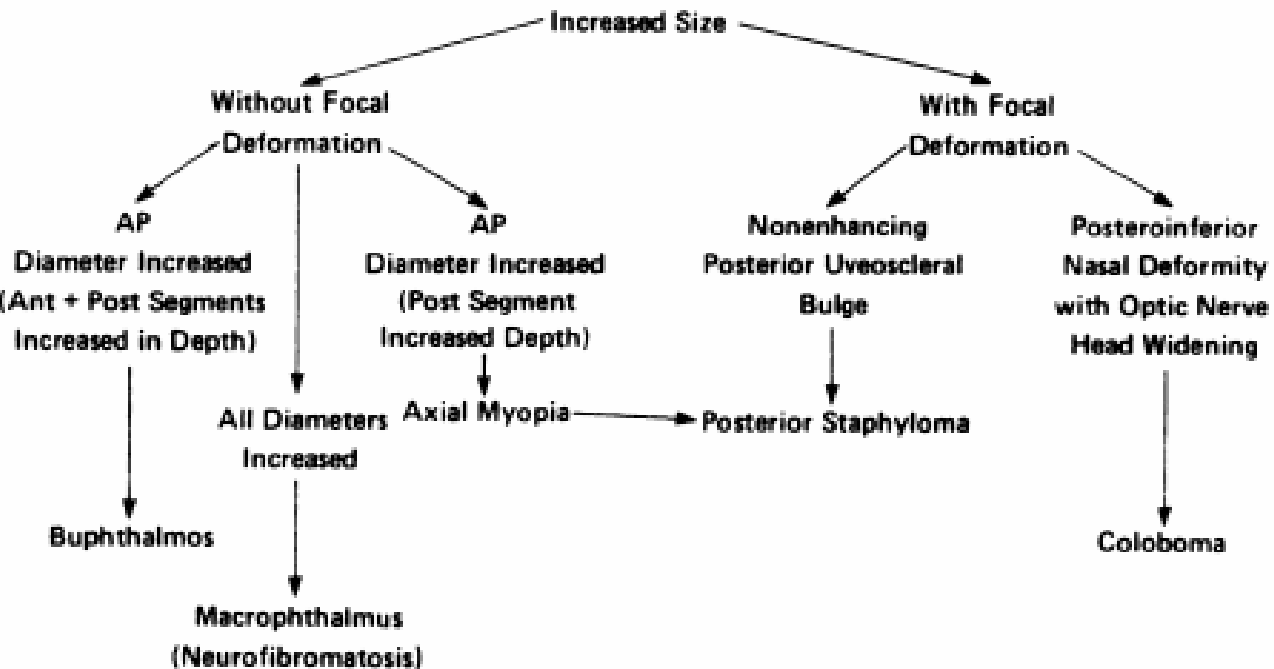


Increased AP diameter again evident on sagittal view  
Uveoscleral rim is decreased in attenuation on R side compared to L, especially at site of staphyloma (arrow)

# Staphyloma

## Differential [2]

Figure 12



a.

# Staphyloma

## Prognosis:

- Poor, since retina and choroid are also thinned → retina is prone to detachment

## Treatment:

- No effective treatment has been established
- Scleral implants?

# References

1. Anderson R L, Epstein G A, Dauer E A. Computed tomographic diagnosis of posterior ocular staphyloma. American Journal of Neuroradiology. 1983; 4 (1) 90-91.
2. Osborne DR, Foulks GN. Computed tomographic analysis of deformity and dimensional changes in the eyeball. Radiology. 1984;153 (3): 669-74
3. Ohno-Matsui K. Posterior Staphyloma in Pathologic Myopia. Retinal Physician. 2017; 14: 38-40, 42