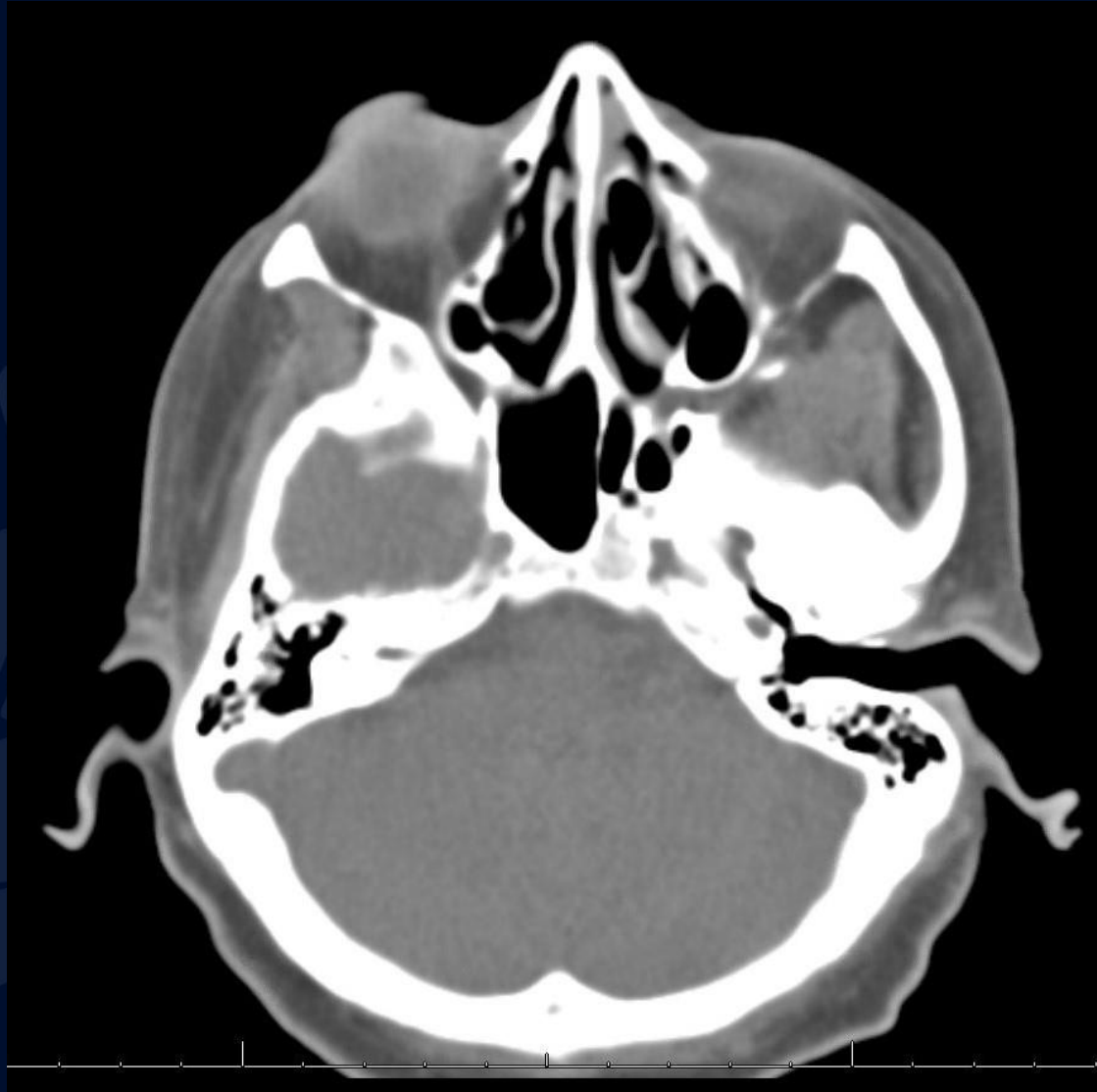
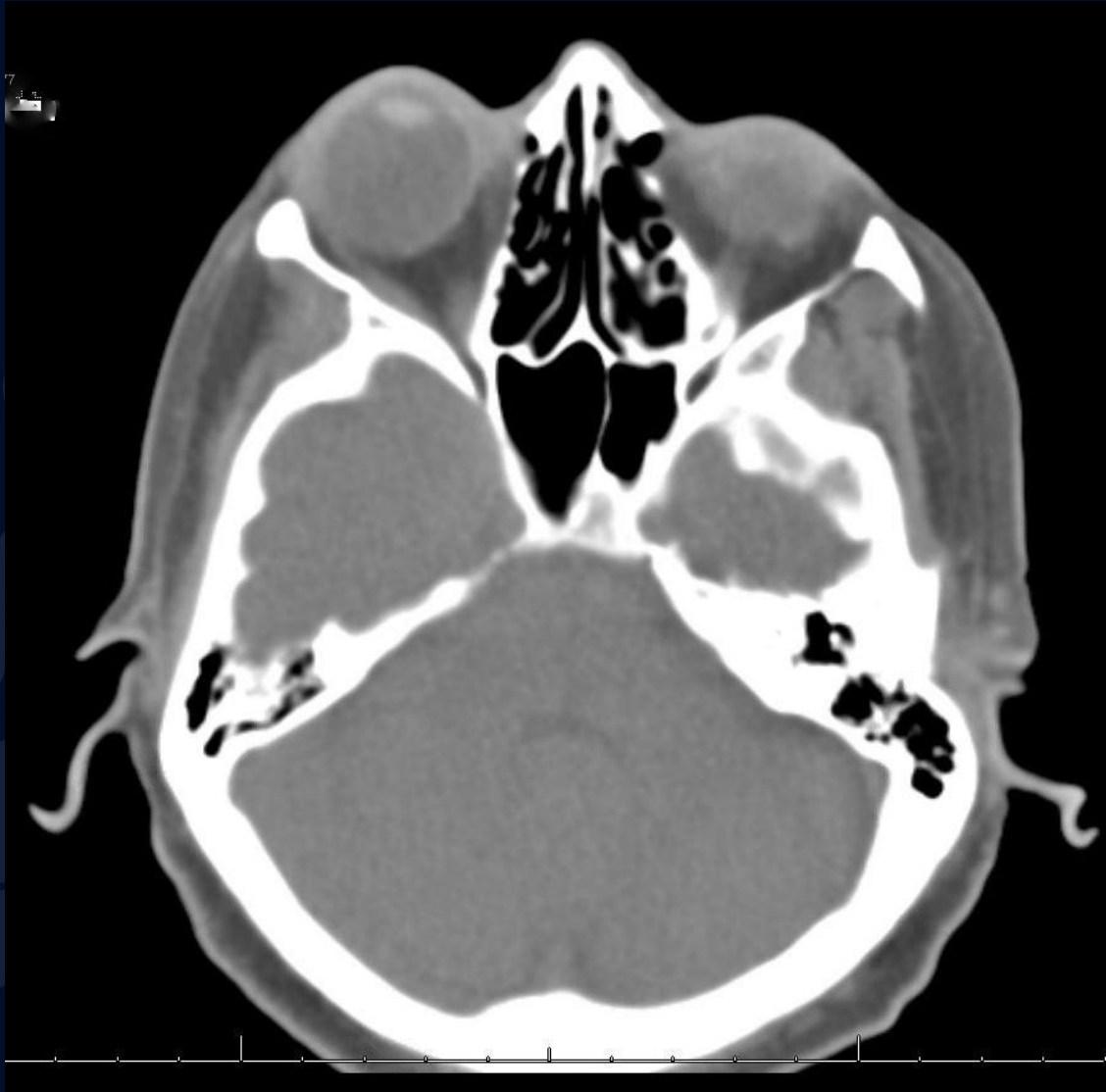


68 year-old female with history
of R eye myopia, partial
inferior visual field deficit, and
proptosis

Kyle Robey, MS3
Aladdin Tarakji, M.D.











JCONN
HEALTH

RADIOLOGY









UConn
HEALTH

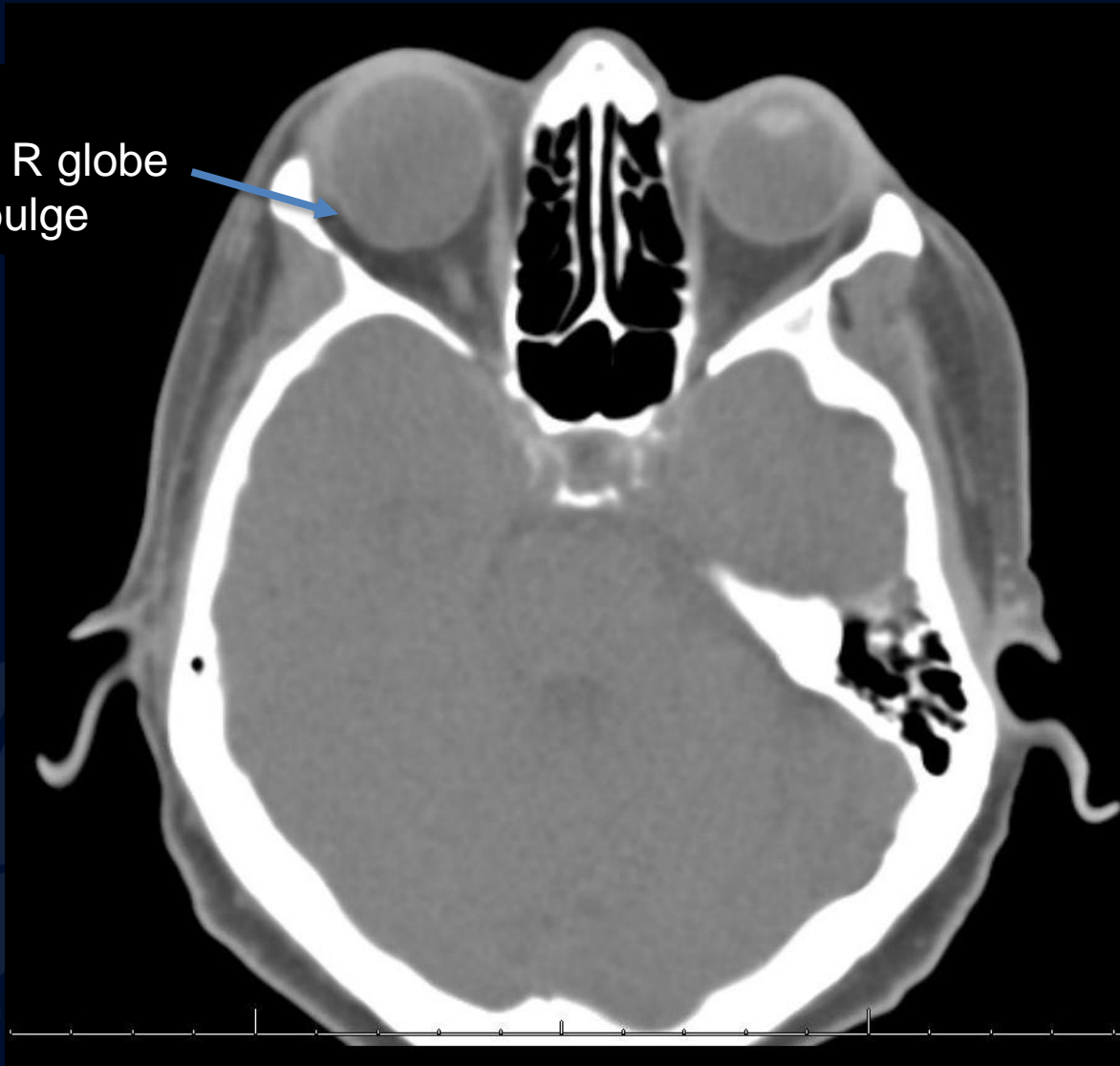
RADIOLOGY

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:

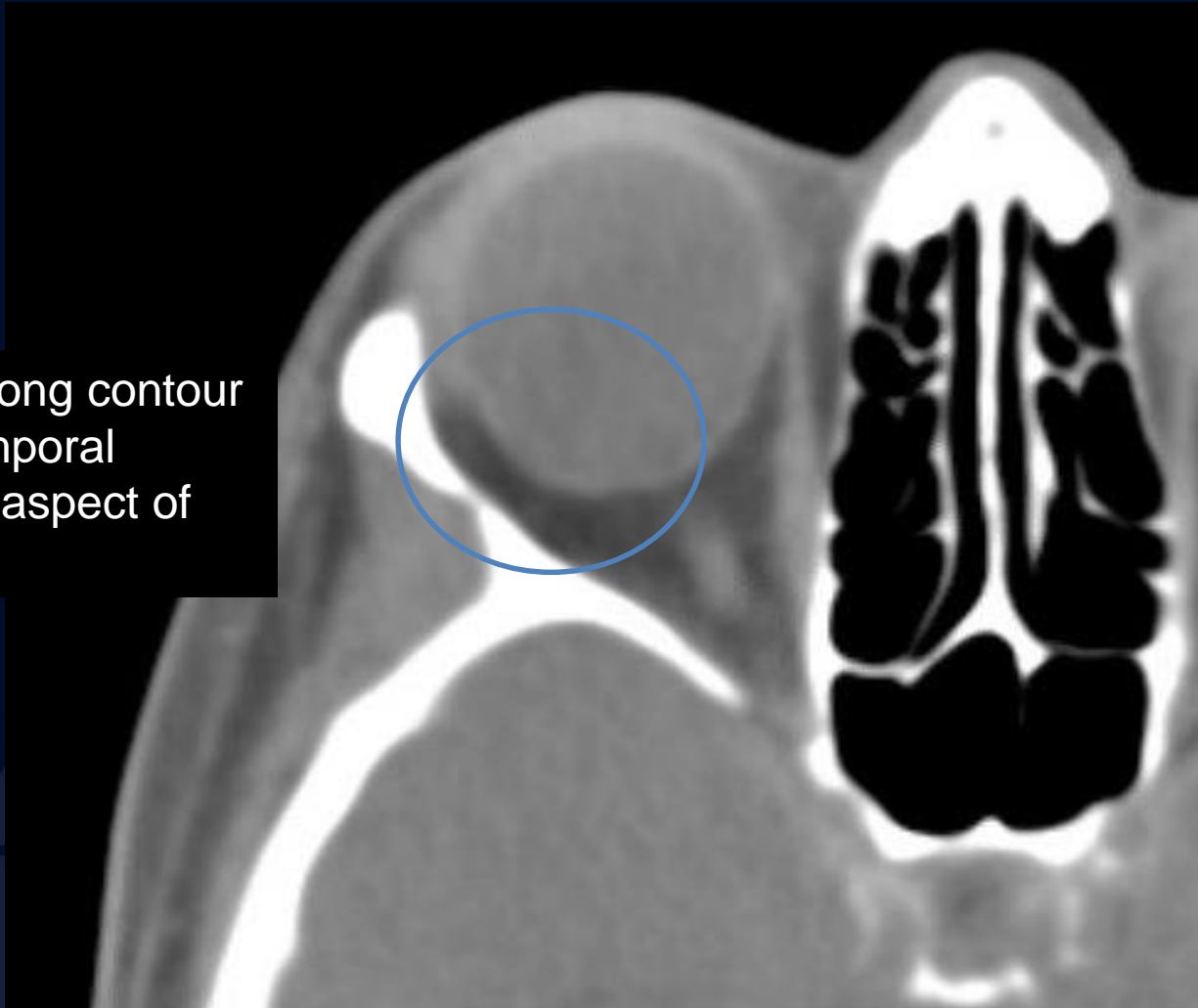
- Visual deficiency/myopia, vision loss in ipsilateral eye

Staphyloma

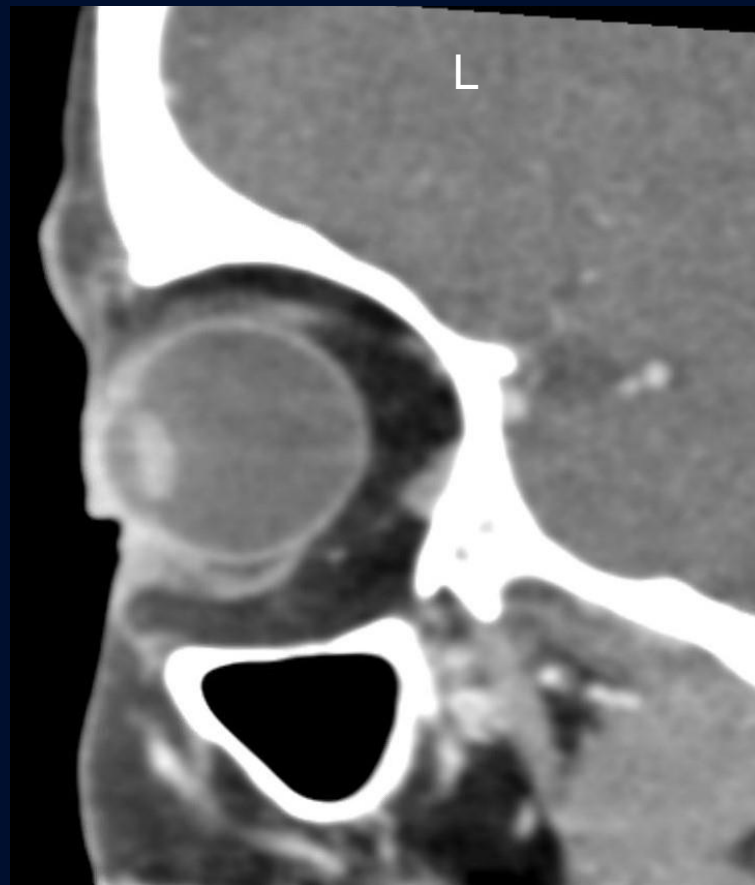
Diagnosis:

- 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





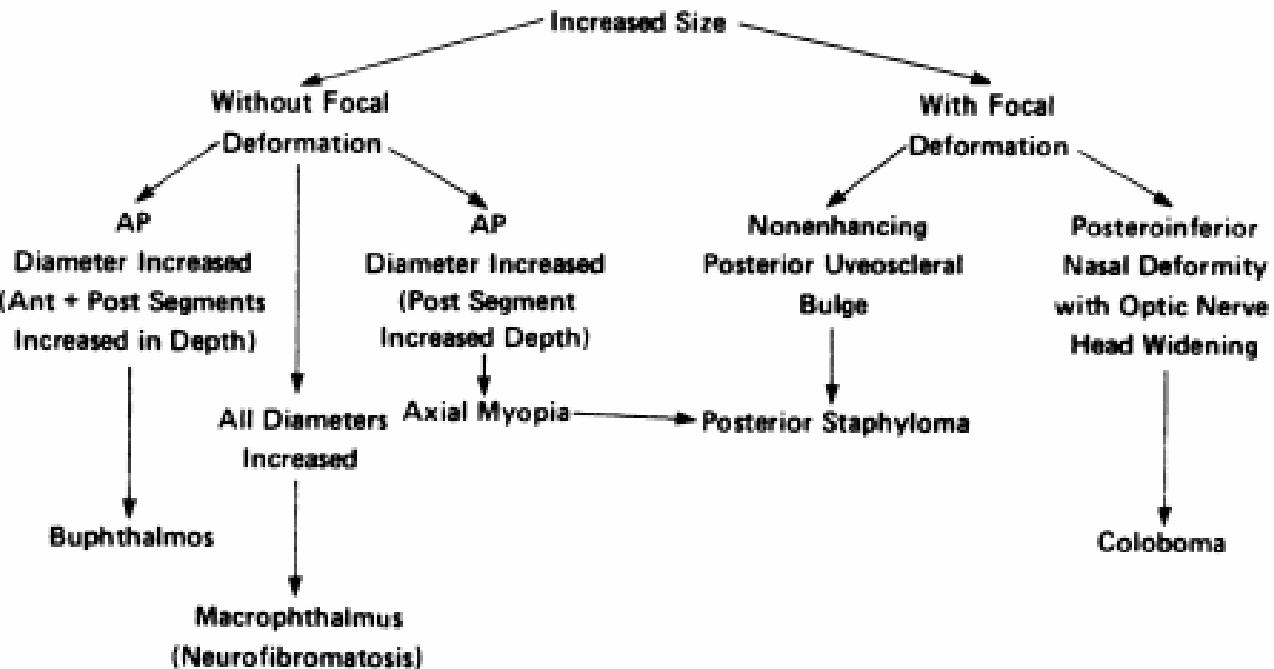


Increased AP diameter again evident on sagittal view
Uveoscleral rim is decreased in attenuation on R side compared to L, especially at site of staphyloma (arrow)

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