

# Optic nerve head in advanced glaucoma suspect

### Moustafa Kamal Nassar

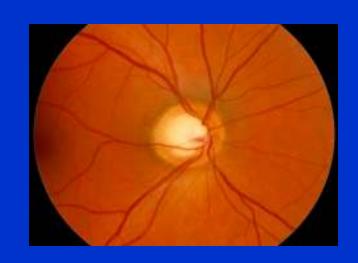
Prof, of Ophthalmology Menoufia University 2025

### Rule of the thumb in Glaucoma

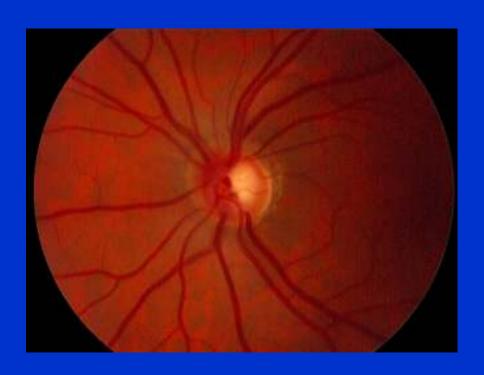
- To miss the diagnosis of Glaucoma is a mistake
- BUT

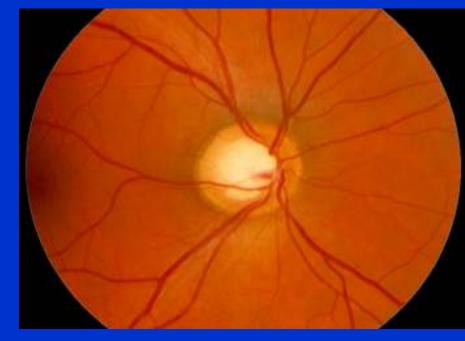


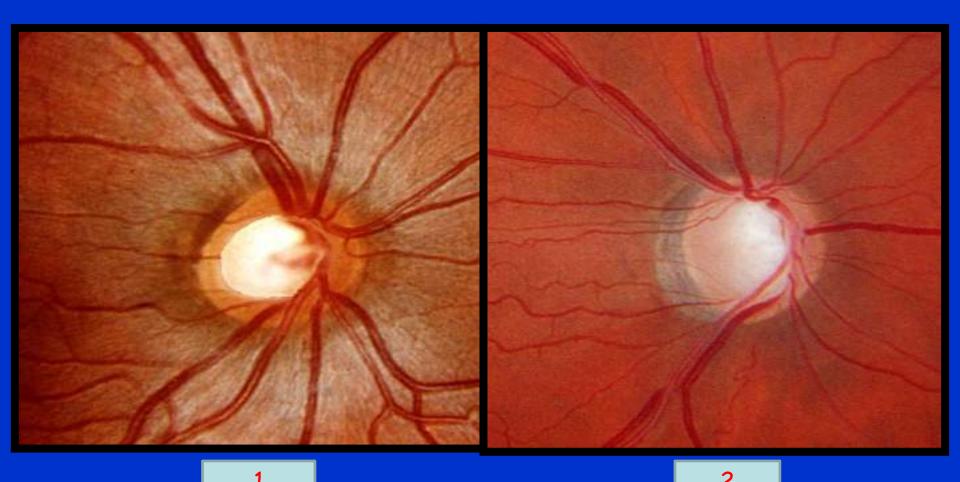
 To give anti glaucoma treatment to a normal subject is a crime



# Two ODs which of them is glaucomatous





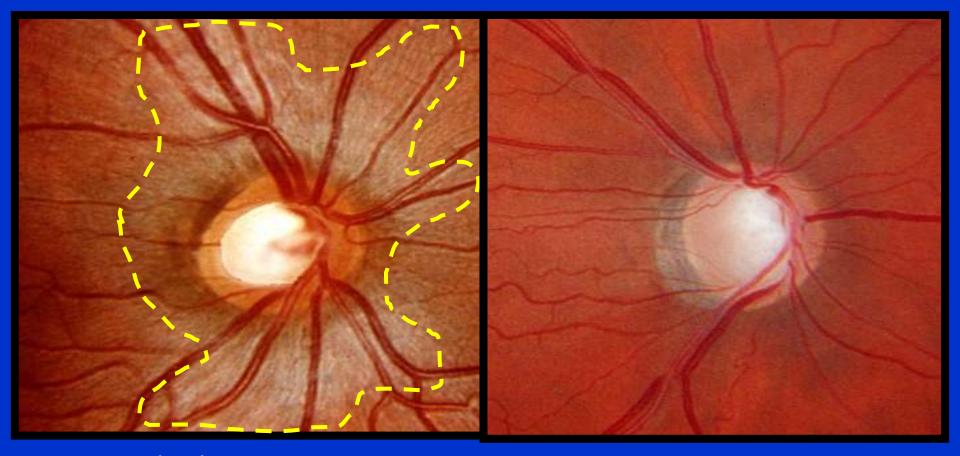


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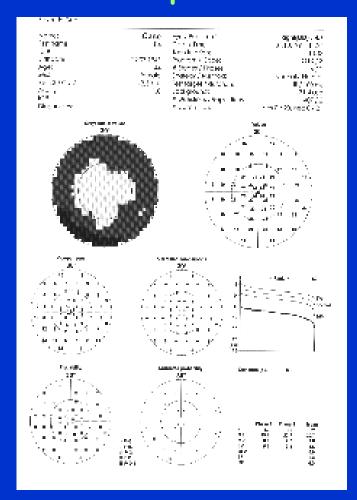
#### Normal RNFL

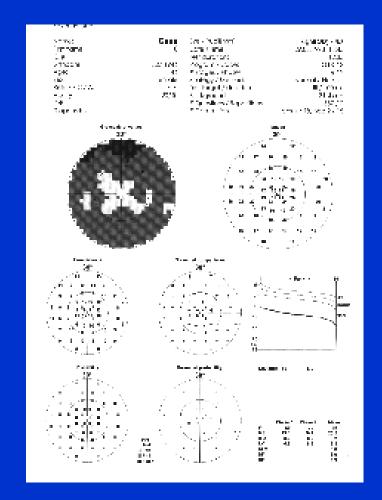
#### Diffuse RNFL Loss



Striations - brightness
Visibility of peripapillary retinal vessels

### Give anti Gl.ttt, monotherap 1, fixed combination 2, no ttt 3



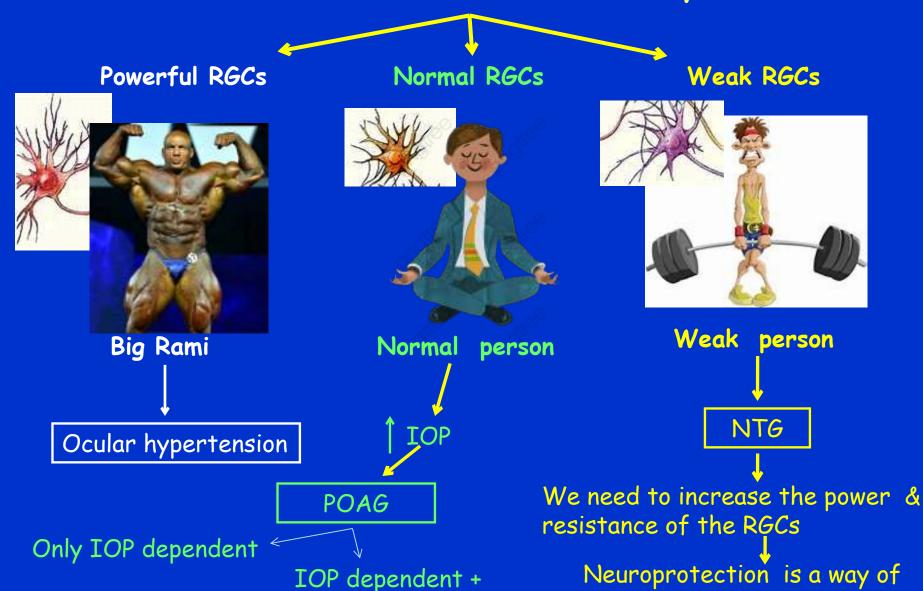


Glaucoma is a disease of the optic nerve (glaucomatous optic neuropathy), that is caused by death of the RGCs and consequently NFL damage.

treatment

to simulate normal or bia Rami RGCs

#### In Glaucoma the RGCs may be



neuroprotection

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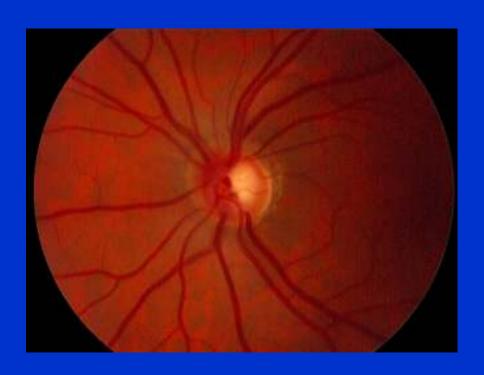
### In Diagnosis of Glaucoma

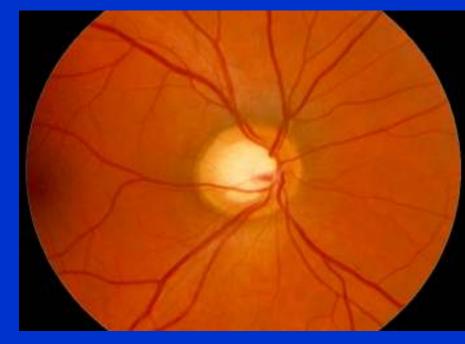
- First ,consider the size of the optic disc (large , normal or small)
- Look carefully to the direction of the long axis
   of the optic cup is it vertical or horizontal.
- Look to the pallor cup ratio to exclude neurological and anaemic patient
- Look to the colour of the retinal blood vesseles (pink or dark red)
- Then start to follow the golden 10 rules for assesment of the ONH.

<sup>1.</sup> European Glaucoma Society, 2003. Terminology and guidelines for glaucoma.

Heijl A. Oral presentation. AIGS, Singapore, 2007.

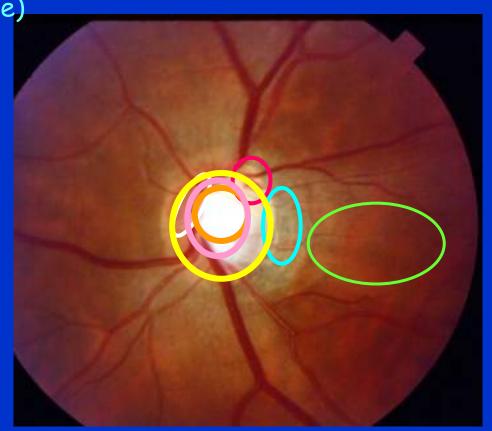
# Two ODs which of them is glaucomatous



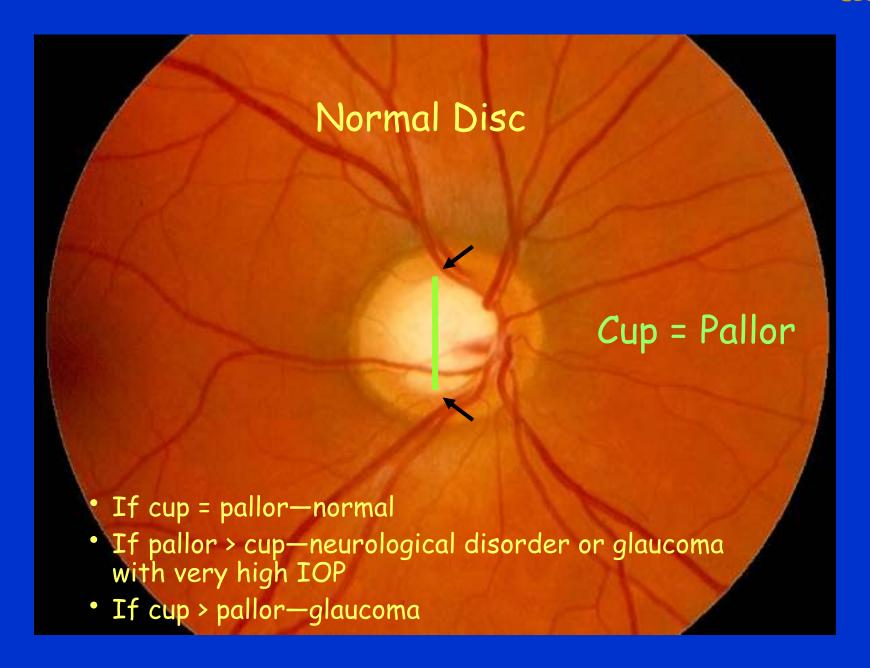


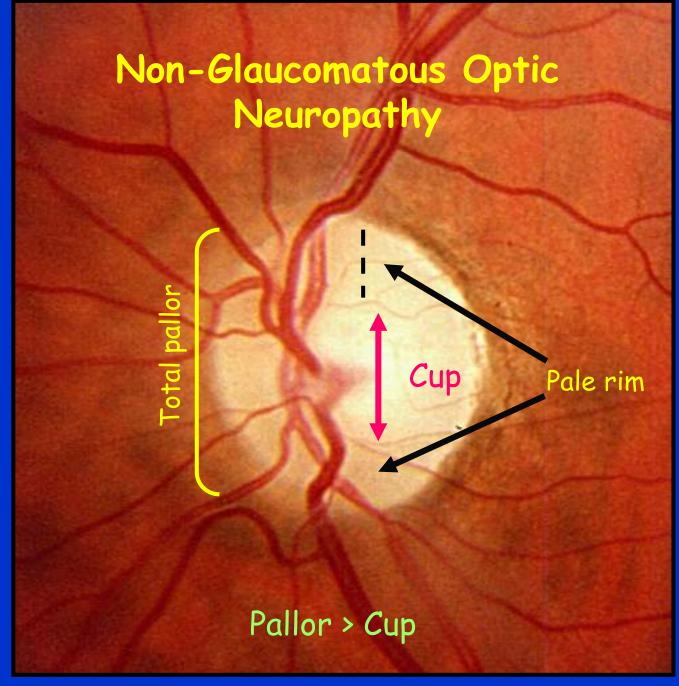
### Ten Rules for the Assessment of the Optic Nerve Head in Glaucoma

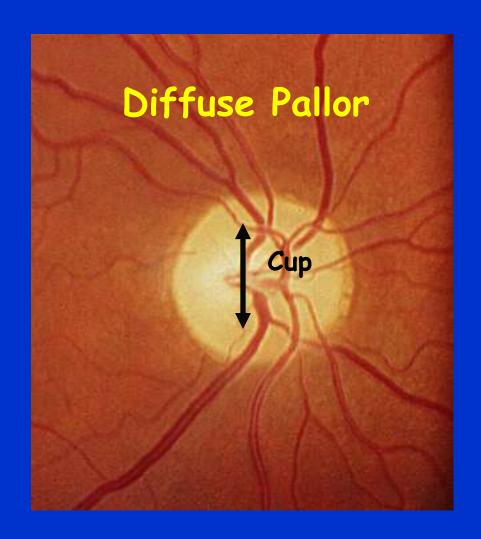
- 1. Rim (ISNT rule)
- 2. peripapillary region (a and \$ zone)
- 3. RNFL (localized or diffuse)
- 4. disc hge
- 5. lamina cribrosa
- 6. cup: vertical elongation
  - nasal cupping



# Rule # 7 Pallor/cup ratio



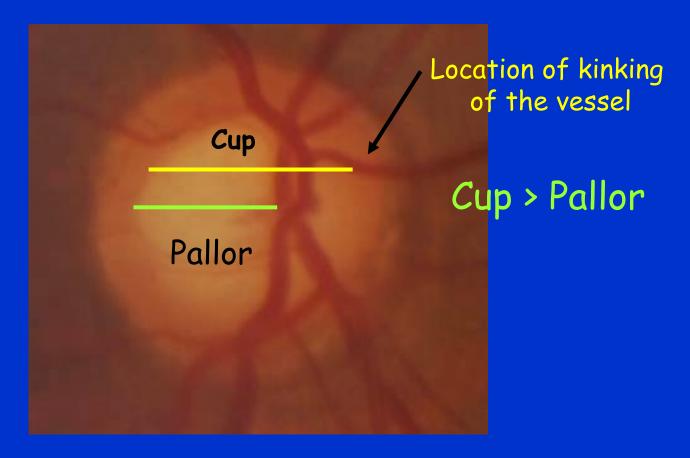




Pallor > Cup

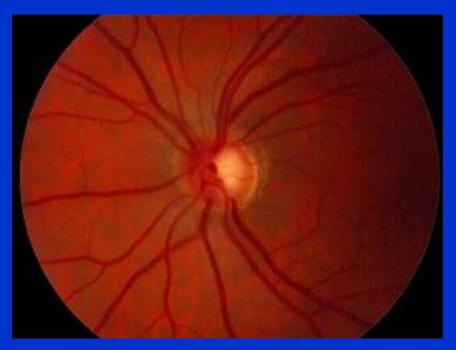
Non-Glaucomatous
Neuropathy

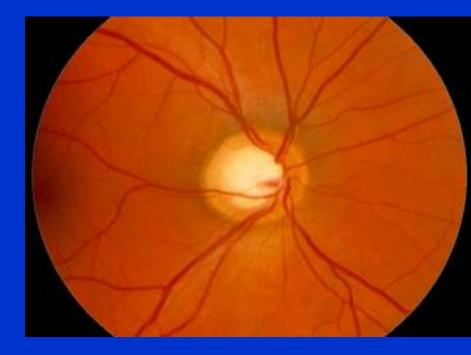
#### Glaucoma



### 8-9-10

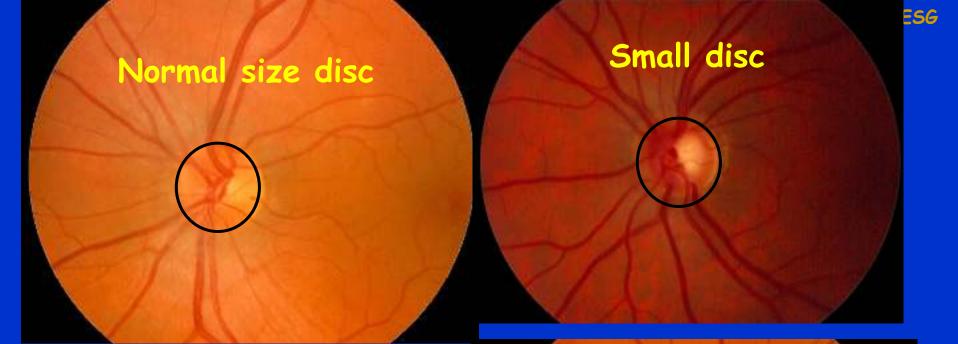
- 8. size of the disc
- 9. long axis of the cup
- 10. colour of the retinal bl vs.





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### How to measure the size of the disc



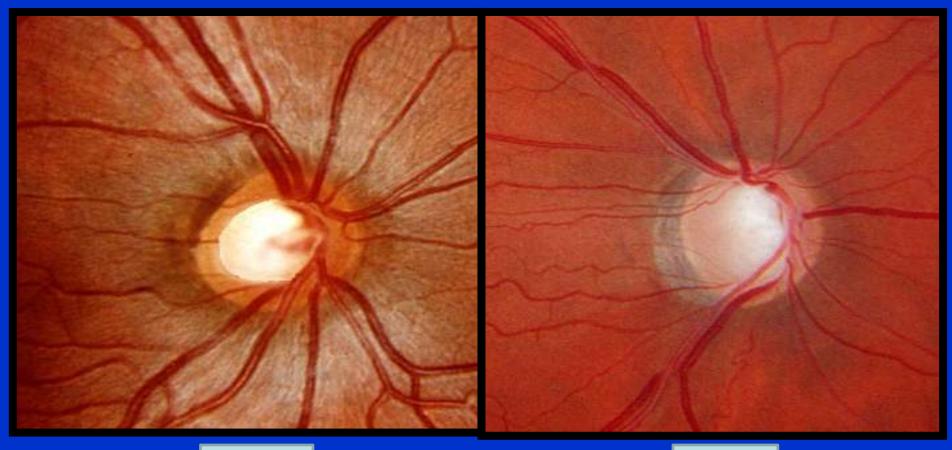


Small aperture (5 degree) of Welch-Allen direct ophthalmoscope



### REMEMBER

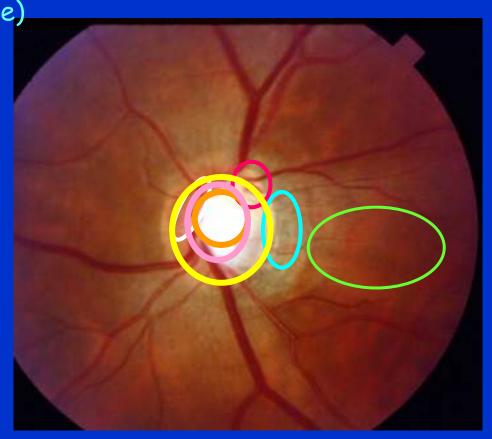
Normal Large Disc Has normal Large Cup



1 2

### Ten Rules for the Assessment of the Optic Nerve Head in Glaucoma

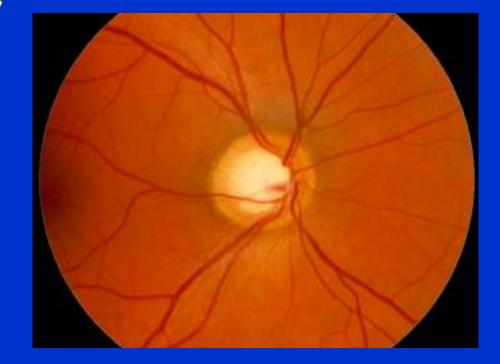
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- 2. peripapillary region (a and \$ zone)
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- 5. lamina cribrosa
- 6. cup : vertical elongation- nasal cupping
- 7. pallor (pallor/cup ratio)
- 8. Size of the disc
- 9. Long axis of the cup
- 10. Colour of the retinal BI Vs



# \*Befor starting anti Glaucoma treatment you should

First exclude any pseudo-glaucomatous

optic neuropathy





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