# DO WE HELP OUR GLAUCOMA PATIENTS BE CURED?

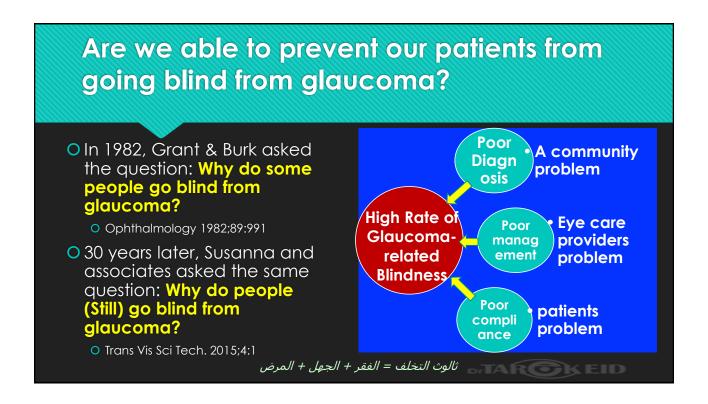
### TAREK M EID, MD

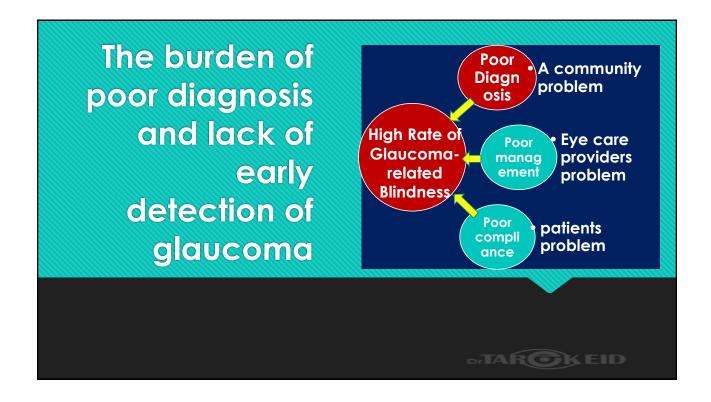
Professor of Ophthalmology Tanta University Tanta, Egypt Glaucoma & Cataract Unit Magrabi Hospitals & Centers Cairo & Tanta Chairman, EyeCity Center New Cairo, Egypt

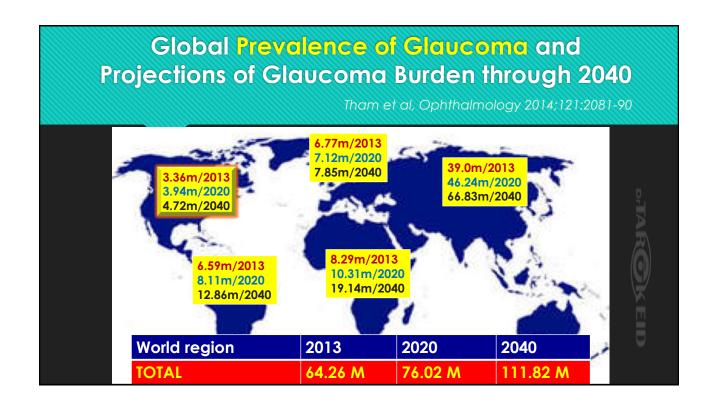
## Can we help our glaucoma patients be cured?

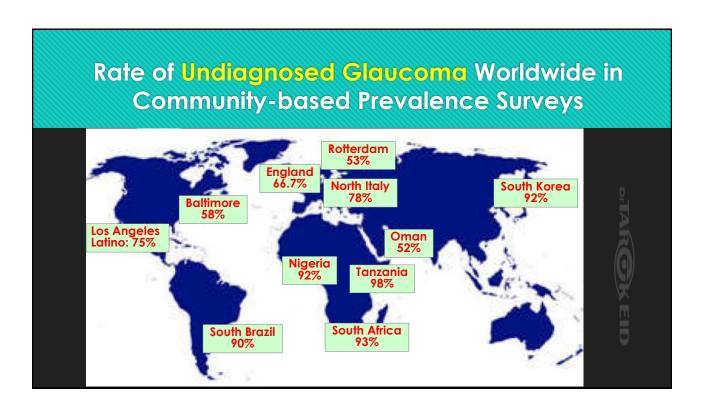
- O There is **NO CURE** from glaucoma
- The only thing we can do is to stop or slow down progression of the disease
- And to help patient maintain his visual capacity and minimize ocular morbidity
- Patients always hope for MORE visual improvement
  - Doctors always hope to have NO MORE harm to patients

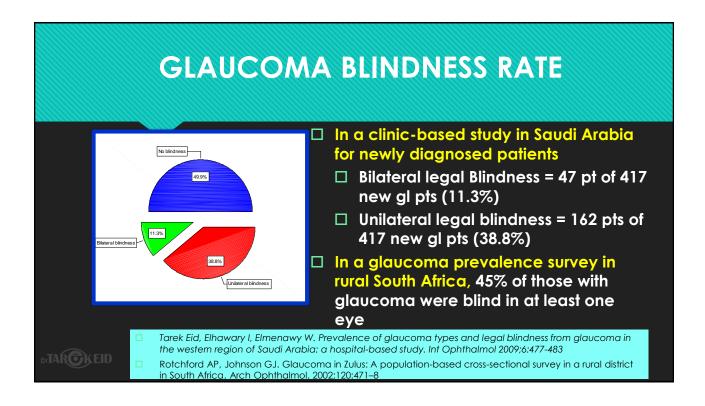
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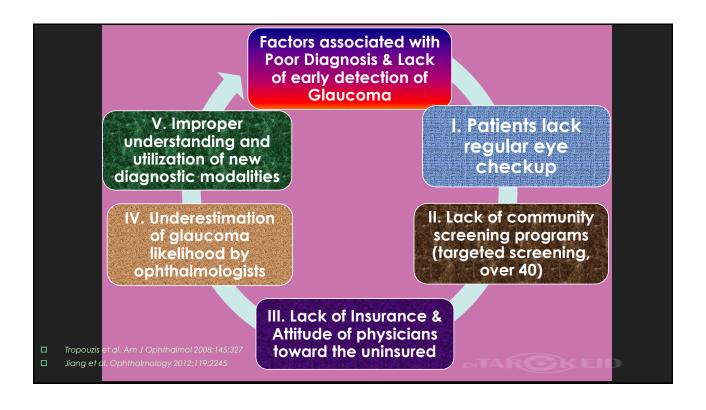


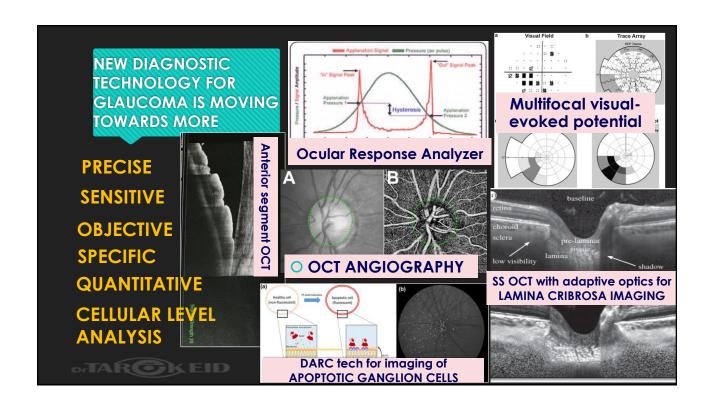


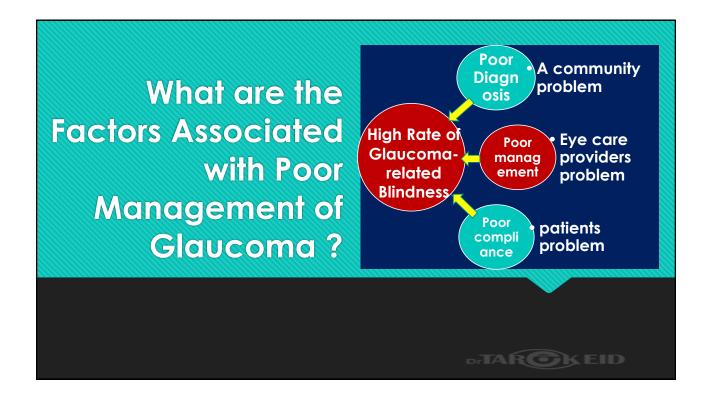


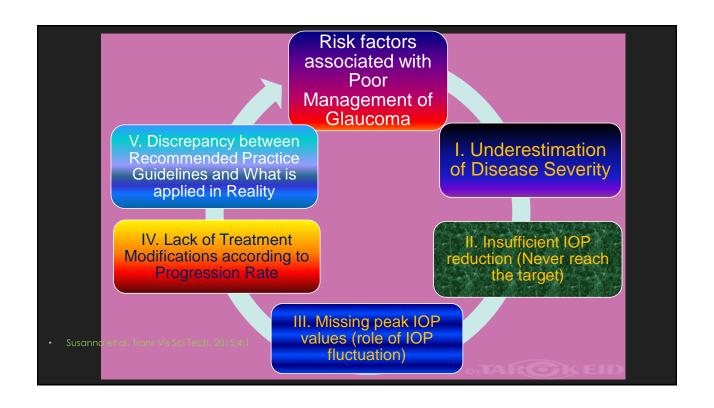


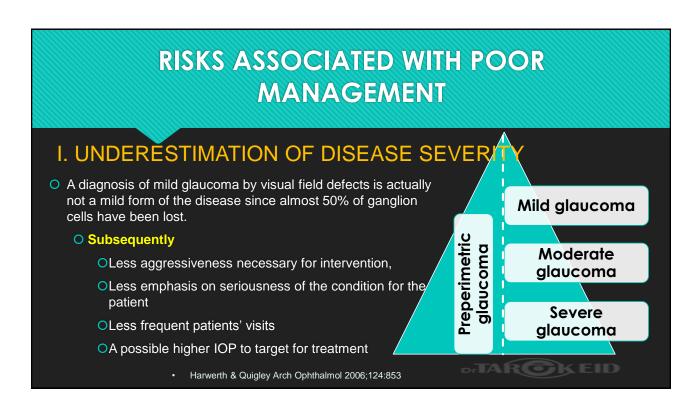












## RISKS ASSOCIATED WITH POOR MANAGEMENT

### OII. INSUFFICIENT IOP REDUCTION

- OWhat is the ideal pressure?
- OA target IOP 20-40% less than baseline, with consideration of
  - OPatient's own specific characteristics
  - O"One-size-fits-all" is not applicable for glaucoma patients
  - OThe lower is not necessary the better
  - Maximal IOP lowering may not be enough (look for other non IOP-dependent factors)
  - OAssociated risk factors and treatment adverse effects
- ☐ EMGT. Arch Ophthalmol 2003;121:48
- ☐ AGIS. Am J Ophthalmol 2000;130:429
- CIGTS. Ophthalmology 2011;118:1766
- CNTGS. Am J Ophthalmol2001'131:699

## RISKS ASSOCIATED WITH POOR MANAGEMENT

## OIII. MISSING PEAK IOP VALUES (IOP FLUCTUATION)

- OShort term (diurnal curve to target peak IOP)
- OUltrashort term (with blinking, eye movement, squeezing, staring, ...)
- OLong term (longitudinal data to target mean IOP)
- Peak IOP of office visits is different from that of diurnal curve
- Association of IOP fluctuation and glaucoma progression is debatable



Home tonometer helps 24-hour monitoring

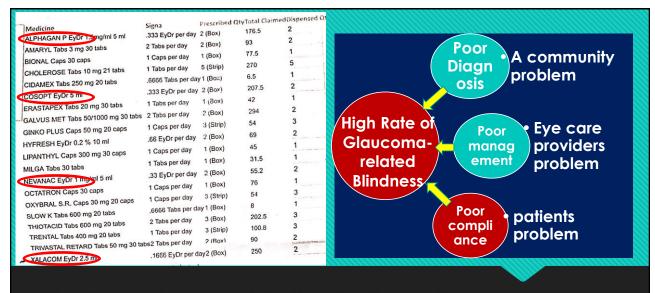
**野K EID** 

- □ Barkana et al. Arch Ophthalmol 2006;124:793
- ☐ Medeiros et al. Ophthalmology 2008;115:934
- ☐ Konstas et al. J Ocul Pharmacol Ther 2012;28:26

#### RISKS ASSOCIATED WITH POOR **MANAGEMENT** □ IV. TREATMENT MODIFICATIONS ACCORDING TO PROGRESSION RATE Treatment plan at first diagnosis Good **Slow Progressors** O Monitoring patient's response and glaucoma progression Visual Early function Glaucoma progression is not linear Intervention Fast with high variability among **Progressors** patients Level of visual O Discrepancy between progression disability Late and blindness from glaucoma Intervention between real practice and clinical Poor trials Birth Readjustment of treatment plan Life Span Death according to rate of progression Henson & Shambhu. Arch Ophthalmol 2006;124:1405 Spaeth GL et al. J Glaucoma 2009;18 (6): \$1-\$21

## RISKS ASSOCIATED WITH POOR MANAGEMENT

- V. DISCREPANCY BETWEEN RECOMMENDED PRACTICE GUIDELINES AND WHAT IS APPLIED IN REALITY
- O In a General Eye clinic, how many check IOP
- O In a Glaucoma clinic, how many do IOP phasing, gonioscopy, disc drawing, repeat VF test, pupil assessment, measure corneal thickness, document family history, target pressure, ...
- In follow-up visits how many patients have serial VF testing, documented adverse effects of meds, compliance check, or treatment plan readjustment according to progression probability, not just IOP level
  - □ Fung et al. B J Ophthalmol2013;97:843 □ Fremont et al. Arch Ophthalmol 2003;121:777

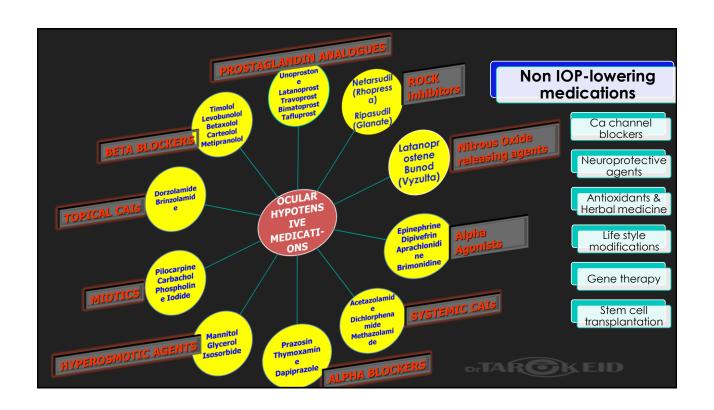


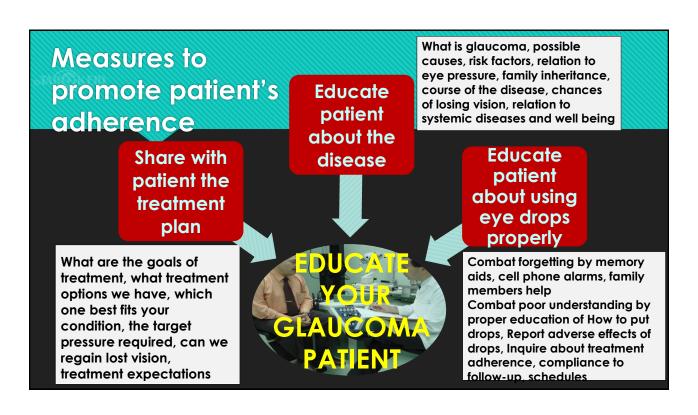
### The Importance of Patient's Compliance

**Poor adherence to meds use can be up to 90%**, The Travatan Dosing Aid study. Ophthalmology 2009;116:191

# What makes patient noncompliant to treatment plan?

- I. The disease:
  - Glaucoma promotes poor compliance (asymptomatic, incurable, costly, life-long, no subjective improvement)
- II. The patient:
  - Low education, poor understanding,, unrealistic expectations, treatment dissatisfaction
- III. The Eye care provider:
  - Non competent physician, bad patient-doctor relationship, poor communication with patient
- IV. The treatment plan
  - O Complex regimen, prolonged, costly, side effects, ...
- V. Situational & environmental factors
  - Life events, other systemic dis, loneliness, lack of social & emotional support
- VI. Financial elements & personal believes
  - Lack of insurance, religious believes, lack of trust in the system, disabled or careless patient









- O Less complex regimen: Fixed combination drops = less number of bottles, less dosing, less money, less preservatives
- OMemory aids, phone call reminders
- Applications of new dosing devices (electronic devices, drug-loaded inserts, supraciliary injection



### GIVE YOUR PATIENT HOPE, NOT FEAR

- WE ARE ALL PATIENTS
  - There is no better feeling than walking out of the doctor's office with a good report
    - » Brown RH. Hope, Not Fear: Talking to the glaucoma patients. Glaucoma Subspeciality Day, American Academy of Ophthalmology Meeting, Orlando 2011,



 No patient should ever leave a visit with a physician without a sense of HOPE

Harris JC, DeAngelis CD. The power of hope. JAMA 2008:300(24):2919