Managing Patients With Multiple Conditions

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Roughly, what is time difference between damage on rNFL and VF?

Now what do we do?

Monitor closely?

Start medical therapy?

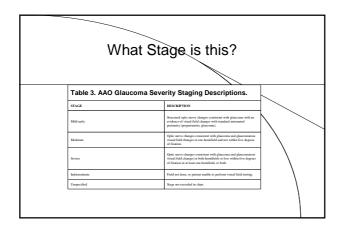
DG Rules for C/D

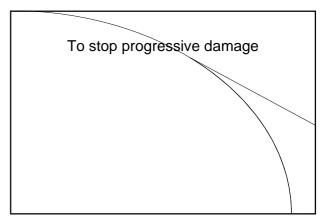
- C/D ratio ROUGHLY corresponds to treatment of patients
- A patient with a C/D of .20 will be treated 20% of times
- $\bullet~$ A patient with a C/D of .50 will be treated 50% of times
- A patient with a C/D of .80 will be treated 80% of times

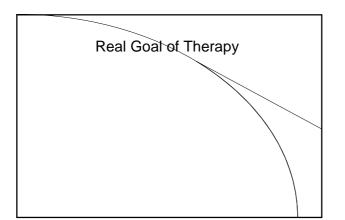
Perceived Lack of Urgency in Early Stages

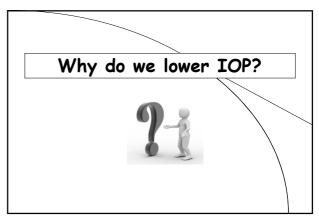
- Borderline IOP
- Borderline nerves
- Disease may take years to progress... if it exists
- We will take another look next year

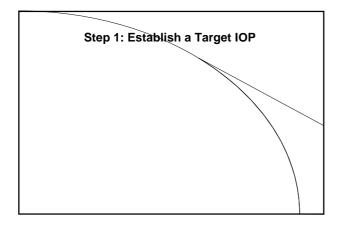
Do we treat one eye or both?





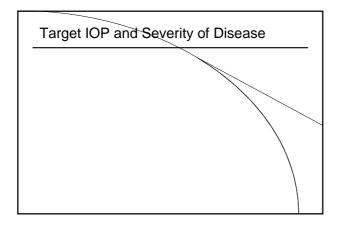






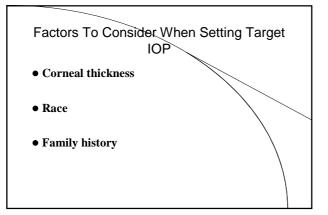
Factors To Consider When Setting Target IOP

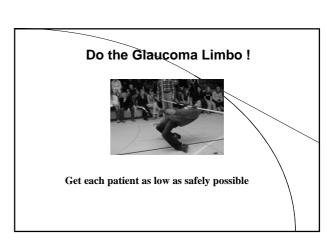
• IOP level at which ONH damage occurred

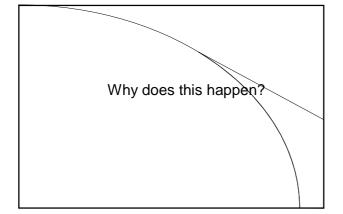


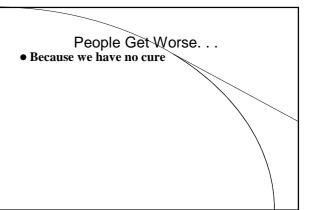
Factors To Consider When Setting Target IOP

Patient Age or expected life span

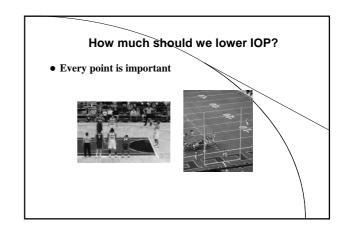








People Get Worse. . . And because patients live longer



For most patients with glaucoma . . .

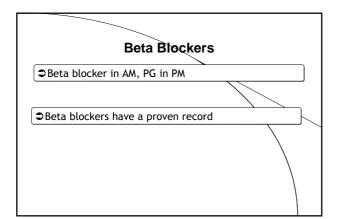
The question is not IF they will get worse

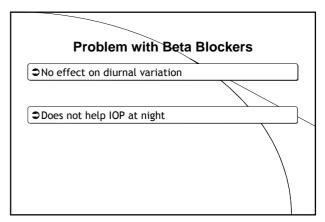
The question is WHEN they will get worse

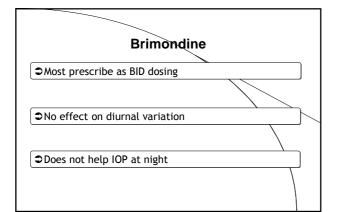
How long does it take for a glaucoma patient to go blind if you do nothing?

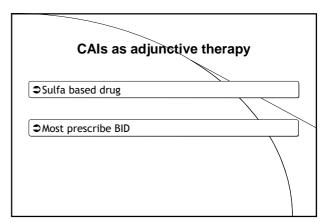
How long does it take for a patient to progress after you have intervened?

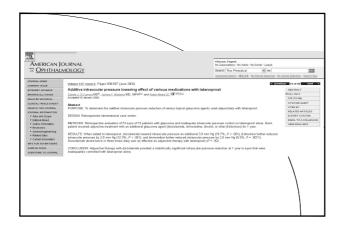
Adjunctive Medications

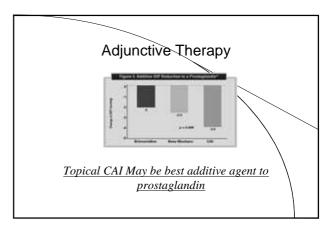












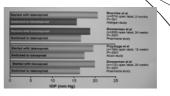
Combining the Prostaglandins

"The combination of bimatoprost and latanoprost in POAG increases the IOP and should not be considered as a therapeutic option."

Doi LM et al. Effects of the combination of bimatoprost and latanoprost on intraocular pressure in primary open angle glaucoma: a randomized clinical trial. Br J Ophthalmo 2005;89(5):

Switching Drugs Within A Class

• Switching from one drug to another within the same class makes little sense



Combination Products

- Simbrinza brinzolamide/brimonidine
- $\bullet \ Combigan-brimonidine/timolol$
- Cosopt dorzolamide/timolol

Advantage of Combination Products

- Adds another medication to medical regimen without adding another bottle
- Keeps costs down since only one copay
- Less preservatives since 2 drugs in one bottle

Disadvantage of Combination Products

- Mismatch of dosing in many cases
- Is third drug helping all that much?
- Combination products don't work as well together as they do individually

Vyzulta

• Lowered IOP by 35% to 44%, compared with only 26 to 27% with latanoprost alone

Problem with Vyzulta

- \$\$\$\$\$\$\$
- Try vyzulta.com pay no more than \$35 or \$40
- Hopefully price will come down

Problem with Rhopressa

- \$\$\$\$
- Hyperemia
- Use discount cards
- Hopefully price will come down soon

Rule #1

- Find out why a patient's glaucoma is worse
 - i.e. is it due to noncompliance

If patient is hypertensive

- See if they can take their meds in AM-instead of at bedtime
- Will help increase perfusion pressure at bedtime
- Will help lower IOP in AM

Rule #3

- If rule # 1 and #2 not violated, then perform serial tonometry to estimate when the patients IOP is the highest
- Realize that each medication you add follows the law of diminishing returns

My preference for 2nd line therapy if IOP highest in AM

- Beta-blockers in AM
- Prostaglandins at night time

My preference for 2nd line therapy if IOP highest other time of day

- Azopt or Simbrinza BID
- Prostaglandins at night time

At what IOP do you intervene even when all else is normal?

Management Priorities

- Lower IOP OD
- Evaluate as glaucoma suspect
- Cause of BCVA OD

Step 1: Lower IOP

- Instilled topical beta blocker OD QAM and Alphagan in office
- IOP down to 24
- Rx'd both and we will see in one week for workup

Glaucoma Management

• Treat one eye or both?

Step 3:What about her VA OD?

- Do nothing
- Send her out for cataract surgery

When do we send a patient for surgery?

- 20/40
- 20/60
- 20/80
- No magic number depends on patient's needs

Treatment Options

- Prevention
- Patient deals with it
- Surgery

Prevention

- UV glasses may delay onset
- Nutrition diet high in antioxidants plus multivitamins
- Ultimately, it is a losing battle

The procedure

- The trend is smaller incisions
- Stitch-less
- Blade-less
- The entire procedure takes 10-12 minutes

Who has the discussion about IOLS options and post-op refraction?

- They are still YOUR patient you understand their visual needs and past history better than anyone else
- If you have this discussion, the patient will have time to process the information when the MD discusses with them again
- 96-98% successful
- What are things to watch out for in post op period?

Elevated IQP

Management

- Do Nothing
- "Burp" it
- Diamox 250 mg x 2 for a couple of days
- Topical beta blockers or Alphagan what about Prostaglandins?

Wound leak: What are the signs?

Management

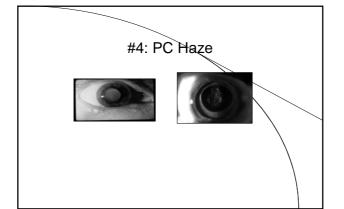
- Small Do nothing
- Medium Bandage contact lens
- Large Stitch

CME: Why does it happen?

- Patient was non compliant with post op NSAID and steroids
- Taken off too quickly

Management

- Order OCT, if available
- Share the liability with surgeon and/or retinal specialist
- Most common treatment is topical steroids and topical NSAIDs



Why does it happen?

• It is caused by residual lens epithelial cells that remain in the **capsular** bag **after** surgery and undergo proliferation, migration, and fibrous metaplasia.

₹his time...

- Surgeon put her at -5.50 OD (OS is -8.25) and will do 2.50 for OS when she has surgery
- Will be followed closely as a glaucoma patient

Does Cataract Surgery Help Glaucoma?

Thought One

- Even though we still do VF testing on patients, it should not be the FIRST machine we use to make an early diagnosis
- It is, however, very useful in monitoring for changes over time

Thought One

- Repeatable and/or progressive changes in rNFL or ONH means that a patient has glaucoma
- Do NOT wait until they lose 30% of their optic nerve before you intervene