Collaboration in the care of glaucoma patients and glaucoma suspects

Barry Emara MD FRCS(C)
Nico Ristorante
November 29, 2012

Goals of Collaboration

- Patient-centred and evidence based approach
- Timely access
- Effective communication
- Minimal duplication of tests and services

Objectives

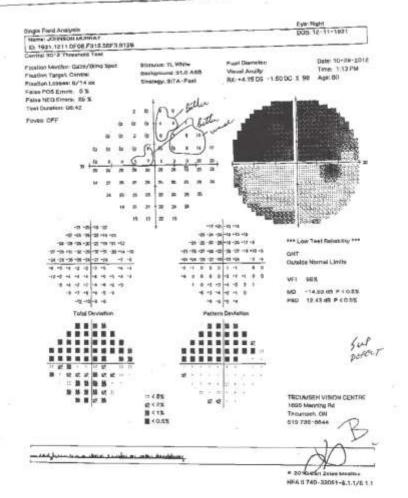
- Understand the different categories of glaucoma
- Understand the basic management of open angle and angle-closure glaucoma
- Identify and refer patients at risk for damage caused by glaucoma
- Recognize current testing modalities which assist in early detection

Outline

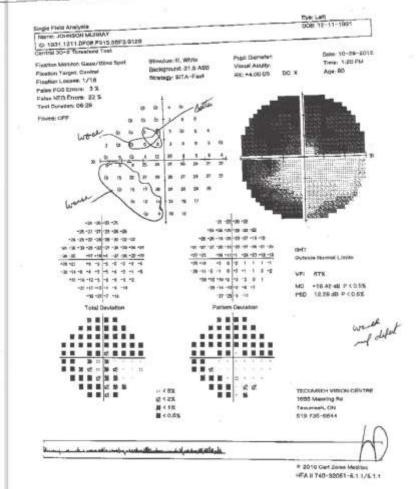
- Case studies
- Anatomy of anterior chamber angle and optic nerve
- Epidemiology
- Categories of glaucoma
- Risk Factors
- Signs
- Management
 - Testing
 - Treatment
- Case studies revisited



- 69 yo male presented May 2001
- IOP 19 OD 16 OS
- CD 0.9 OU
- Alphagan, Pilocarpine, Timolol OU
- Baseline IOP unknown



TOLMZE



Category?

Target IOP? OD OS

Follow-up?

- 65 yo orthodontist presented Aug 2001
- IOP 28 OD 24 OS
- CD 0.65 OU
- Alphagan & Xalatan OU
- Laser OD 1999
- Unknown baseline IOP

Category?

Target IOP? OD OS

Follow-up?

- 70 yo male presented Nov 2003
- IOP 41 OD 43 OS
- CD 0.6 OS 0.75-0.8 OD

RS/26/2005 10:10 2539067 PWF 80 Stright Photo Ameligate Eyw: Right Nerve DESMARAS, LEONARD DOR: 08-25-33 Central 30-2 Trepshold Test Finalism Monitor Easts/Ulimbered Direction III, White PupE Diameter DWW: 05-03-06 Fination Terget. Quertral Beckground: 31.5 ASB Visual Aculty: Time: 9:36 AM Finelian Lanes 2/12 Strategy: SITA-Fast RX: +2.50 08 DC X Age: 71 Felia POS Errore 2 % Felse NEG Errore 0 % Test Duretien: 09isii 0 20 N W Forme 34 dtt. 2 2 2 2 2 2 3 * . B B F F + 4 4 4 4444 4444344 424999 4 (4) 4 4 4 4 4 4 4 **ㅋㅋㅋㅋ**ㅋㅋㅋㅋㅋ ******* 1444444 Within normal limits प्रकृतिम् <u>वह</u> १९९**३ प्रकृत्**या -2000000 00 11 10 4 4 4 4 4 5 4 5 4 5 242927 4444 8 8 1 8 MD -2:34 dB P < 6% 3 0 42 0 41 0 PSD II.15 (B) 4 1 4 4 0104 Total Pattern Deviation. Deviation - - 10 H 9 10 10 10 10 0 0 4 · m · a s - # # # · # # + # 1 2 3 - - -. II PCEK SOUTH WALKERVILLE of PKES OPTOMETRIC CENTER # PK1% 2224 WALKER RD. SUITE 101 # P (05% WINDSOR, ONT. NAW SAE 919-253-1532

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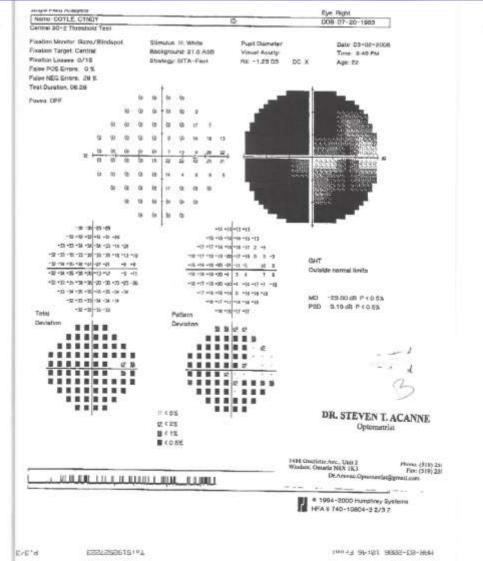
Normal Visual Fields

Category?

Target IOP? OD OS

Follow-up?

- 22 yo female presented Feb 2006
- IOP 27 OD 28 OS
- CD 0.95 OD 0.6 OS
- Cosopt OU
- Baseline IOP 42 OU



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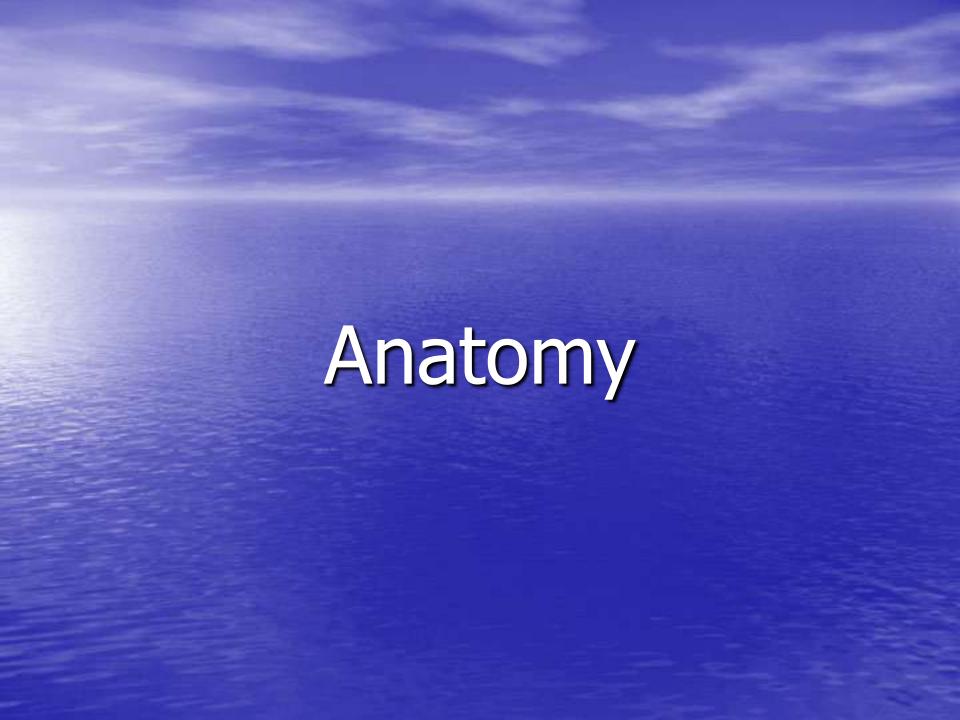
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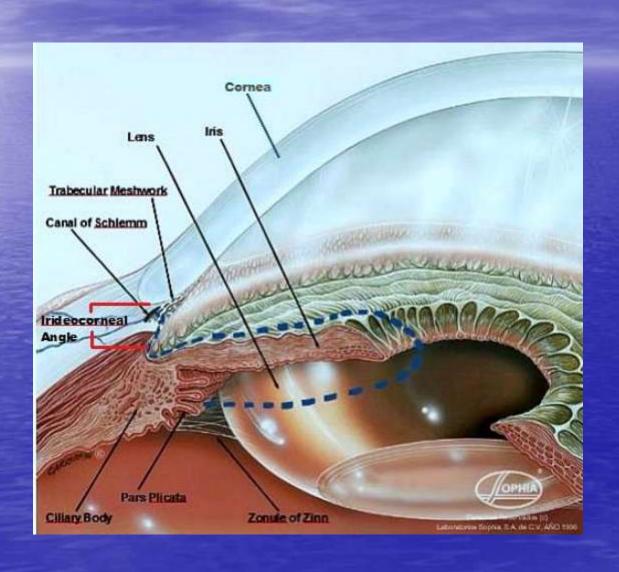
Category?

Target IOP? OD OS

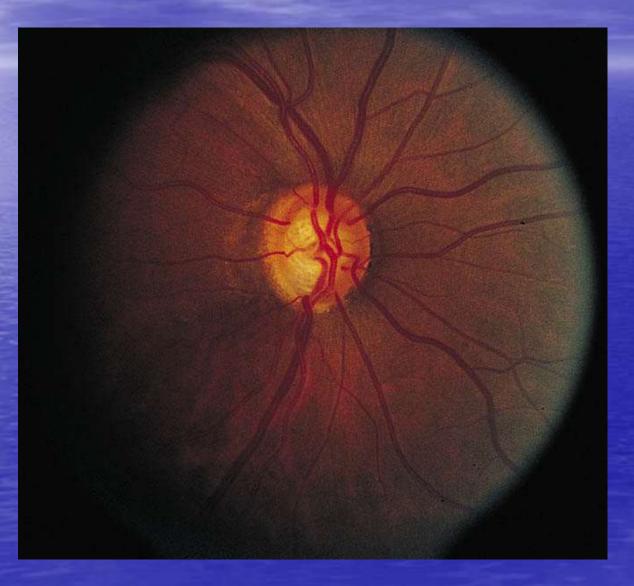
Follow-up?



Anterior Chamber Anatomy



Glaucoma



Epidemiology

Open Angle Glaucoma: Epidemiology

- Primary open-angle glaucoma is a significant public health problem
- Affects 1 in 100 Canadians over age 40
- Prevalence of POAG for adults 40 and older in the United States was estimated to be about 2%
- 45 million people in the world have open-angle glaucoma (OAG)

8.4 million people blind from glaucoma

Categories

Glaucoma: Categories

1. Stable Glaucoma i)Early ii)Moderate iii)Advanced

2. Unstable Glaucoma

3. Glaucoma suspect i) High risk ii) Low risk

4. Acute Glaucoma

Stable Glaucoma

Stable Glaucoma

Early

 Early glaucomatous disc features (e.g., C/D* 0.65) and/or mild VF defect not within 10° of fixation (e.g., MD 6 dB on HVF 24-2)

Moderate

Moderate glaucomatous disc features (e.g., vertical C/D* 0.7–0.85)
 and/or moderate visual field defect not within 10° of fixation (e.g.,
 MD from 6 to 12 dB on HVF 24-2)

Advanced

 Advanced glaucomatous disc features (e.g., C/D* 0.9) and/or VF defect within 10° of fixation† (e.g., MD worse than 12 dB on HVF 24-2)

Unstable Glaucoma

Unstable glaucoma patient

Unstable patients are those with IOP above target or with proven optic disc or visual field deterioration in the recent past.

Glaucoma Suspects

Glaucoma suspect with low/moderate risk

This group will involve one of the following clinical scenarios:

- (1) Presence of elevated applanation IOP not >27mmHg, with normal visual fields (normal glaucoma hemifield test or equivalent tests) and normal optic discs;
- (2) Positive family history of glaucoma with normal visual fields and optic discs;
- (3) Suspicious optic disc(s) in patients with normal IOP (22 mm Hg) and normal visual fields;
- (4) Suspicious visual field tests not yet confirmed on a second test; or
- (5) Presence of other conditions commonly associated with glaucoma but without elevated IOP (such as pigment dispersion, pseudoexfoliation).

Glaucoma suspect with high risk (or already on topical treatment)

This group will involve one of the following clinical scenarios:

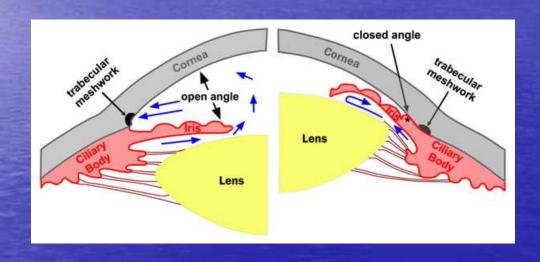
- 1. Presence of elevated IOP >27 mm Hg (or 24 mm Hg associated with relatively thin central corneal thickness 550 m);
- 2. Presence of very suspicious optic disc findings, such as rim notches, disc hemorrhages, localized RNFL defects, but with normal visual fields;
- 3. Elevated IOP associated with other causes of secondary glaucoma such as pseudoexfoliation, pigment dispersion, uveitis, iris or angle neovascularization, but without clear signs of optic disc damage or visual field loss;
- 4. Glaucoma suspect patients who are already being treated with IOP-lowering therapy; or
- 5. Patient with an angle deemed at high risk for closure (typically 180° or more of iridotrabecular contact).

Acute Glaucoma

Acute glaucoma (or patients with any chronic form of glaucoma presenting with a very high IOP)

This group includes patients presenting with very high IOP (usually 40mmHg), being either of acute onset (usually characterized by symptoms such as nausea, pain, reduced visual acuity, halos) or a more chronic presentation.

Anterior Chamber Angle



The Risk Factors

Primary Open Angle Glaucoma

NON-OCULAR RISK FACTORS

- Increasing age
- African ancestry
- Lower systolic and diastolic blood pressure
- Hispanic ancestry
- Family history
- Genetics
- Myocillin
- Optineurin
- Apolipoprotein
- Migraine
- Corticosteroids

Primary Open Angle Glaucoma

OCULAR RISK FACTORS

- Higher IOP
- Lower ocular perfusion pressure
- Thinner central cornea
- Disc hemorrhage
- Parapapillary atrophy
- Larger cup-to-disc ratio (deviation from the ISNT rule (inferior superior nasal temporal)
- Larger mean pattern standard deviation on threshold visual field testing
- Pseudoexfoliation, Pigment dispersion, Myopia

Primary Angle Closure Glaucoma

NON-OCULAR RISK FACTORS

- Family history of angle closure
- Older age
- Female sex
- Asian or Inuit descent

Primary Angle Closure Glaucoma

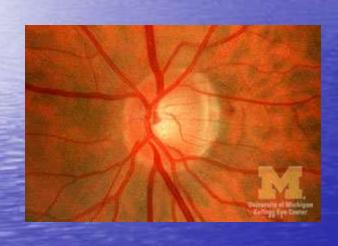
OCULAR RISK FACTORS

- Hyperopia
- Shallow peripheral anterior chamber depth
- Shallow central anterior chamber depth
- Steep corneal curvature
- Thick crystalline lens
- Short axial length

Signs

Open Angle Glaucoma Signs

SUBTLE



Normal cup-disc ratio



Increased cup-disc ratio

Angle Closure Glaucoma Signs

DRAMATIC

- Cloudy/steamy cornea
- Fixed mid-dilated pupil
- Conjunctival injection
- Elevated IOP



Management

Goals of Management: Open Angle Glaucoma

PRESERVE VISION

Intraocular pressure controlled in the target range

Stable optic nerve/retinal nerve fiber layer status

Stable visual fields

Management Glaucoma Suspects

Management Glaucoma suspect—low/moderate risk

- Ocular hypertension (IOP <27 mm Hg)
- Positive family history of glaucoma
- Suspicious optic disc(s)
- First suspicious visual field defect
- Presence of conditions such as such as pseudoexfoliation, pigment dispersion and early glaucoma, respectively

- Managed primarily by the optometrists, or ophthalmologists (based on availability)
- If patient has several risk factors or change occurred, please follow recommendations for high-risk suspect

Management Glaucoma suspect—high risk

- Ocular hypertension (IOP >27 mm Hg)
- Very suspicious optic disc(s)(notching, optic disc hemorrhages)
- Elevated IOP caused by secondary causes (pseudoexfoliation, pigment dispersion, uveitis, iris or angle neovascularization)
- Glaucoma suspects on treatment
- High risk for angle closure

- Shall be initially sent to ophthalmologist; then when agreed on by both parties, may be monitored by optometrist, with periodic consultation by ophthalmologist (at least every 3–4 years)
- Patient shall be referred to ophthalmologist before initiating IOPlowering therapy or if progression is suspected

Management Stable glaucoma patients

Management Stable early glaucoma patients

- Early glaucoma recently diagnosed
- Stable disease (IOP within target, no visual field or disc progression in the last 3 years)
- Initial referral to ophthalmologist is required—initiation of therapy and goals recommended by the ophthalmologist
- Once stable, many patients can be managed by optometrist with periodic consultation by ophthalmologist (at least every 2 years)

Management Stable moderate/advanced patients

- Moderate or advanced patients known to be stable for the last 3 years
- Managed primarily by ophthalmologists, unless transportation barriers or nonavailability of an ophthalmologist are significant issues

Management Any unstable glaucoma

Management Any unstable glaucoma

- Patient not achieving target IOP
- Evidence of visual field or optic disc deterioration in the recent past
- Shall be referred to and managed by ophthalmologist
- If stability is achieved, can be referred back to the optometrist for further follow-up;
- However, patients with moderate or severe disease should be maintained under the care of the ophthalmologist

Management Acute glaucoma or very high IOP

Management Acute glaucoma or very high IOP

- Primary acute glaucoma
- Other causes of very high IOP such as pigmentary, pseudoexfoliation, uveitic, or neovascular glaucoma

Acute treatment can be started by optometrist after phone consultation with the ophthalmologist, but immediate contact and transfer to ophthalmologist shall be arranged

Management Summary: Follow-Up

- Glaucoma suspect
- Early glaucoma
- Moderate glaucoma
- Advanced glaucoma

- > 1–2 years
- > At least every 12 months
- > At least every 6 months
- > At least every 4 months

Management Summary: Target IOP

Stage

- Suspect in whom a clinical decision is made to treat
- Early
- Moderate
- Advanced

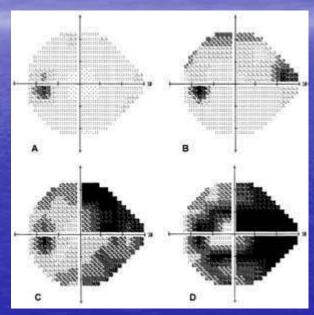
Suggested upper limit of target IOP

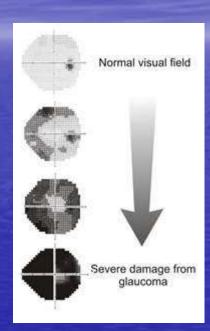
- 24 mm Hg with at least 20% reduction from baseline
- 20 mm Hg with at least 25% reduction from baseline
- > 17 mm Hg with at least 30% reduction from baseline
- > 14 mm Hg with at least 30% reduction from baseline



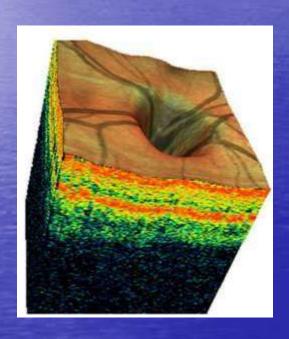
Visual Fields

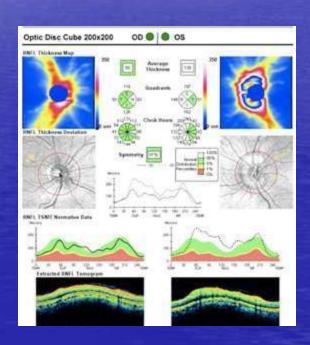






Optical Coherence Tomography







Management: Open Angle Glaucoma

- 1. Medications
- 2. Laser
- 3. Incisional filtering surgery

Pressure Lowering Agents

- Aqueous suppressants
 - 1. Beta blockers (Timolol, Betagan)
 - 2. Alpha agonists (Alphagan)
 - 3. Carbonic anhydrase inhibitors (Trusopt, Azopt)



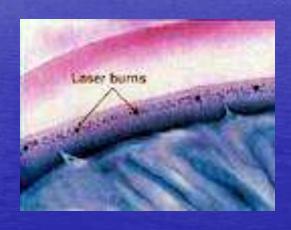
Pressure Lowering Agents

- Increased uveoscleral outflow
 - Prostaglandin analogues
 (Xalatan, Lumigan, Travatan)
 - 2. Cholinergics (pilocarpine)

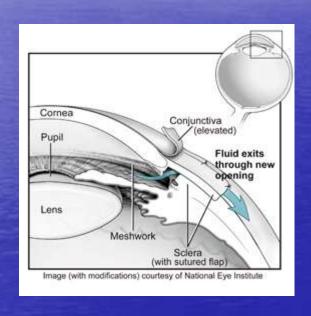


Laser Trabeculoplasty





Trabeculectomy



Goals of Management: Acute Angle Closure Glaucoma

Reverse or prevent angle-closure process

Control IOP

Prevent damage to the optic nerve

Management: Acute Angle Closure Glaucoma

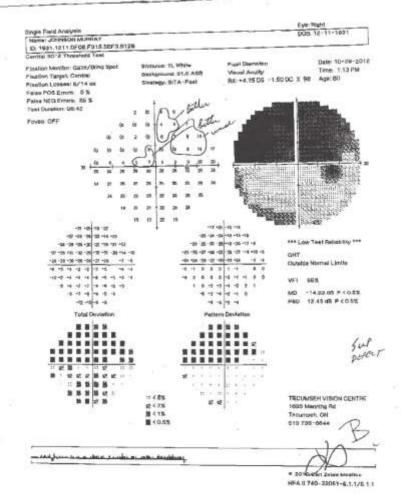
- 1. Medications to lower pressure
- 2. Laser peripheral iridotomy



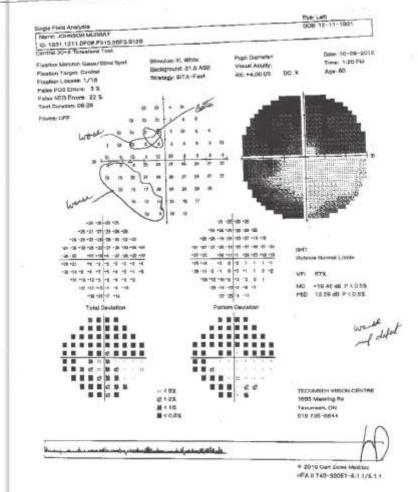
Case Studies Revisited

Case 1

- 69 yo male presented May 2001
- IOP 19 OD 16 OS
- CD 0.9 OU
- Alphagan, Pilocarpine, Timolol OU



TOLMZE



Case 1

- Timolol changed to Cosopt May 2004
- Lumigan added Oct 2004
- IOP 10-13 OU since then
- VF defects stable

Case 1

Category? Stable Advanced Glaucoma

Target IOP? OD <14 OS <14</p>

Follow-up? 4-6 months

- 65 yo orthodontist presented Aug 2001
- IOP 28 OD 24 OS
- CD 0.65 OU
- Alphagan & Xalatan OU

- Switched from Alphagan to Cosopt
- Switched from Xalatan to Lumigan
- OD Trabeculectomy Oct 2009
- OD Seton implant tube shunt Dec 2011
- OS SLT Nov 2012 OD 15 OS 24

Category? High risk glaucoma suspect

Target IOP? OD <24 OS <24</p>

Follow-up? 6-12 months

- 70 yo male presented Nov 2003
- IOP 41 OD 43 OS
- CD 0.6 OS 0.75-0.8 OD

RS/26/2005 10:10 2539067 PWF 80 Stright Photo Ameligate Eyw: Right Nerve DESMARAS, LEONARD DOR: 08-25-33 Central 30-2 Trepshold Test Finalism Monitor Easts/Ulimbered Direction III, White PupE Diameter DWW: 05-03-06 Fination Terget. Quertral Beckground: 31.5 ASB Visual Aculty: Time: 9:36 AM Finelian Lanes 2/12 Strategy: SITA-Fast RX: +2.50 08 DC X Age: 71 Felia POS Errore 2 % Felse NEG Errore 0 % Test Duretien: 09isii 0 20 N W Forme 34 dtt. 2 2 2 2 2 2 3 * . B B F F + 4 4 4 4444 4444344 424999 4 (4) 4 4 4 4 4 4 4 **ㅋㅋㅋㅋ**ㅋㅋㅋㅋㅋ ******* 1444444 Within normal limits क्त हमें हम्म कह इत्त के किया न करन -2000000 00 11 10 11 12 12 12 14 15 11 15 242927 4444 8 8 1 8 MD -2:34 dB P < 6% 3 0 42 0 41 0 PSD II.15 (B) 4 1 4 4 0104 Total Pattern Deviation. Deviation - - 10 H 9 10 10 10 10 0 0 4 · m · a s - # # # · # # + # 1 2 3 - - -. II PCEK SOUTH WALKERVILLE of PKES OPTOMETRIC CENTER # PK1% 2224 WALKER RD. SUITE 101 # P (05% WINDSOR, ONT. NAW SAE 919-253-1532

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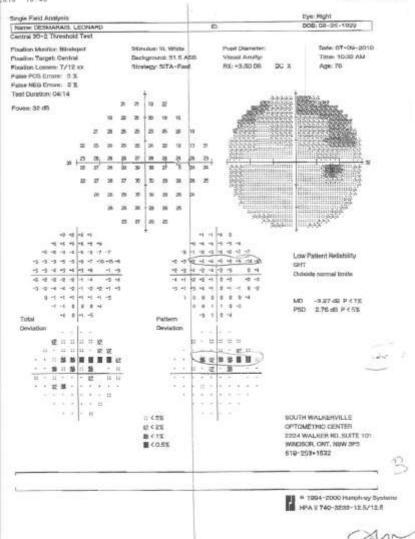
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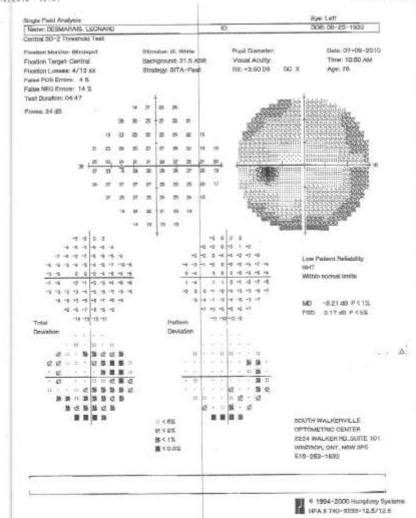
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1994-90 Humphrey Systems HFA II 740-3239-Rev. All

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- Timolol OU IOPs 34 OD 37 OS
- Switched to Cosopt & Alphagan Dec 2003
 28 OD 30 OS
- Cataract surgery January 200416 OD 17 OS
- Lumigan added May 200722-27 OD 20-22 OS



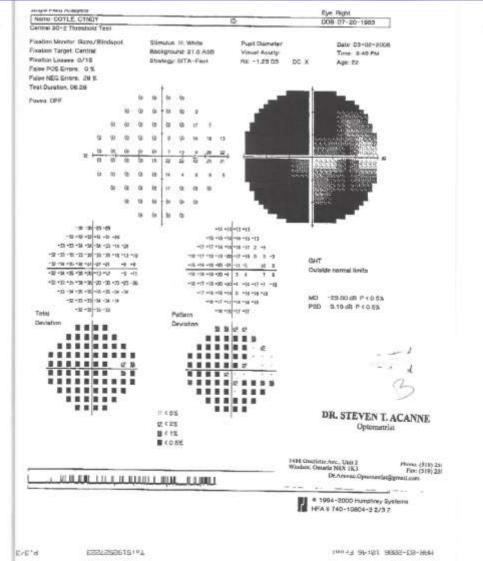


Category? Acute glaucoma now stable

Target IOP? OD <27 OS <30</p>

Follow-up? 4-6 months

- 22 yo female presented Feb 2006
- Pigment dispersion syndrome
- IOP 27 OD 28 OS
- CD 0.95 OD 0.6 OS
- Cosopt OU
- Baseline IOP 42 OU



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Within normal limits

Pupil Diameter:

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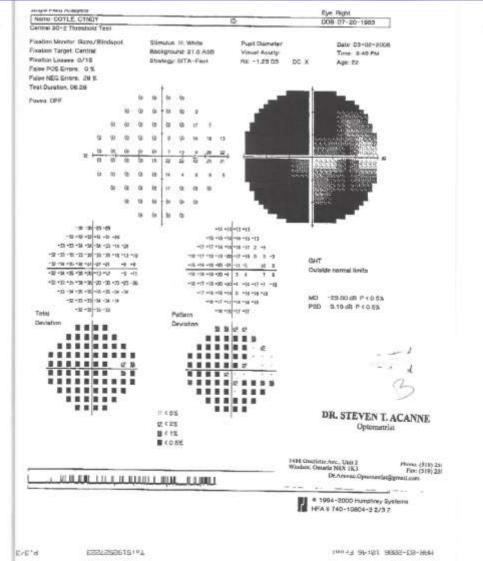
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- Alphagan added Feb 200624 OD 29 OS
- Lumigan added March 2006
- Irritated eyes, discontinued
- Switched to Xalatan 18 OD 17 OS
- 16-22 OD 17- 23 OS



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TOWN LATE.

Within normal limits

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1485 Ourliese Ave., Unit 2

MD -377 m F 41%

DR. STEVEN T. ACANNE

Optometria:

Phone: (519) 258-31

Pupil Diameter:

Visual Acutly.

RX -1.00 DG GC X

DOB: 07-20-1989

Age: 22

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Time: 3:89 PM

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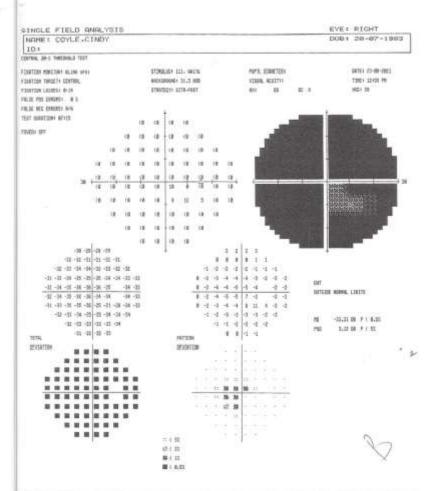
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6-2800 CHL J2101 HD1712 H6-11 749-9238-14-2-1-14-2-1

SINGLE FIELD HARLYSIS NIGHE + COYLE +CINDY EVE + LEFT IDt DOD: 28-07-1983 COSTNEL SE-2 THRESHOLD TEST CONTRACTOR SERVING SELECTION OF STREET STRUCKS III, WITH PUPIL STEATTER FEMALUS TRADETY CONTINU. (NYC) 23-46-28(s NUMBER OF STREET Value, ecorys FEDREZON LANGEST TALE TIME: 1160 PM ETRETTICH SCHOOLS EE1 20 FALE PER LIMITED . # 1 REL 25 FRAME WAS DROVED IN IN FEST BURNTION: 6015T 26 18 25 POWER WIT 25 - 25 27 10 30 21 30 20 30 32 38 0 5 0 22 34 23 2 2 2 2 1 1 n n a w n n n n n 25 27 36 28 28 28 28 28 2 2 2 2 2 2 2 30 20 24 27 1744 8 4 7 9 44444 4 4 4 4 4 4 14412449 44414444 4 4 4 4 4 4 4 4 4 4 1 4 4 4 1 4 4 4 4 4 44 444444 41 1111111 4 4 4 4 4 4 SCINIX MINNE, CONTY, 8 8 8 8 4 4 4 4 4 4 4 2 4 4 4 4 4 4 4 4 9-1-4-2-8-8-1-4-7 711411111 44494114 44441 3 4 4 4 0 1 相 一次的 等 并 拉 1.444 1078 PSb 1,71 10 8 4 4 4 **7911089** DESTRUCTION **DEVIATION** - 11 per -- - 10 -0 n n n . - - - - are en en en en en a profile become - - H - - H - - - -. e e centro 11 - 1 - - - - -11 10 0.15 45 1 21 28 1.33 職 (18.00)

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- Category?
 - Acute glaucoma OD now stable
 - High risk glaucoma suspect OS

Target IOP? OD <18 OS <24</p>

Follow-up? 4-6 months

References

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Canadian Ophthalmological Society website (<u>www.eyesite.ca</u>)

Albert DM, Jakobiec FA. *Priniciples and Practice of Ophthalmology*. Philadelphia, WB Saunders Co, 2000.

Preferred Practice Patterns, Primary Open Angle Glaucoma. www.aao.org

Preferred Practice Patterns, Primary Angle Closure Glaucoma. www.aao.org





Lucentis ODB coverage for DME

Location, date