

# **Syntonics**

# **Practice Management**

**Syntonics 101**  
**Nashville, TN**  
**June 2022**

**John Pulaski, OD, FCSO**

# **Syntonics**

## **Practice Management**

### **Disclosure**

# Patient Management Treatment

Follow the protocol – Do not look for  
“Quick Fix” or the “Magic Bullet”

It is one of the most effective treatments  
you will use in your office.



# Patient Management

## Initial Evaluation

## Treatment

Home or Office therapy

When to give eyeglasses

When to initiate VT



# Patient Management Treatment Options Office Therapy

Traditional – Syntonizer, “The College Unit”

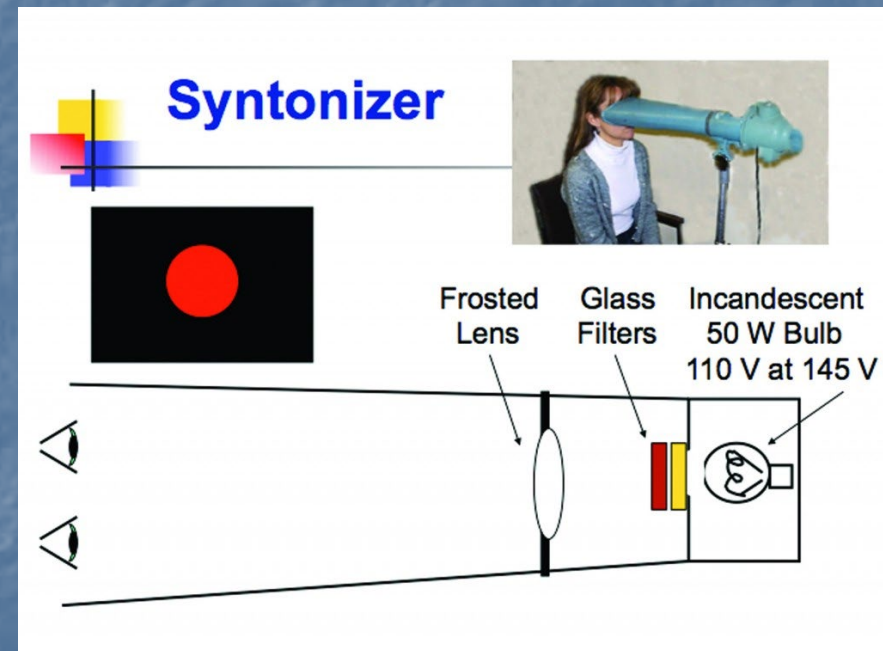
Home unit in Office

Advantages/Disadvantages

# Patient Management Treatment

## The design of the Syntonizer

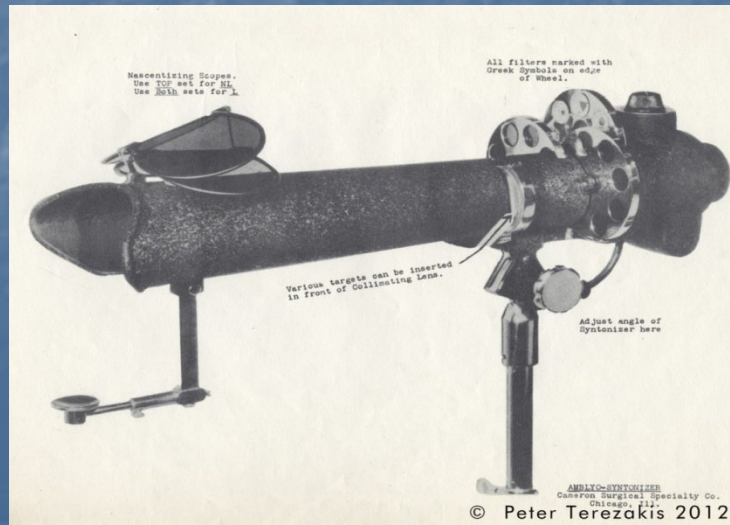
- Light Source – low wattage
- Filters in specific order and position
- Frosted clear lens/Collimating lens
- Aperture
- Done in dark – dark surround with central colored target.
- Target located approximately at “Harmon Distance” from the eyes.





# Patient Management Treatment Options Office Therapy

Traditional  
Syntonizer  
“The College  
Unit”





# Patient Management Treatment Options Office Therapy

Traditional  
Syntonizer  
“The College  
Unit”



# Patient Management Treatment

Importance of placement of filters and lenses.

Does it make a difference?

# Patient Management Treatment

Office Therapy  
Home Therapy



# Patient Management Treatment Options Office Therapy

Traditional  
Syntonizer  
“The College  
Unit”  
Group Therapy



# Patient Management

## Treatment Options

### Office Therapy

### Staff Responsibilities/Forms

Booking at initial exam

3x/week at patient's convenience

Fields after 7 and 21 sessions.

Insurance and Financial



# Office Forms

DATE \_\_\_/\_\_\_/\_\_\_ Patient Name \_\_\_\_\_ Rec # \_\_\_\_\_ DOB \_\_\_\_\_

					Last		First		State ID #	
Insurance	Medi	State	BCHMO	BC	Ctcare	Aetna	UHC	Oxford	Cigna	Other
			Medi		Medi	Medi	Medi			

Payment Ins Package \$\_\_\_\_\_

## Syntonics Treatment Summary and Record

[illegible]

### Field Expansion Therapy – In Office

DATE \_\_\_\_/\_\_\_\_/\_\_\_\_ NAME \_\_\_\_\_ Tx Filter AO/MD MU UO/MU \_\_\_\_\_  
 Copay \_\_\_\_\_ Day \_\_\_\_\_ Total Days Tx \_\_\_\_\_ Time (min) \_\_\_\_\_

**HX** Compliance + - \_\_\_\_\_ Changes in Health/Medication \_\_\_\_\_ None \_\_\_\_\_  
Complaints ☐ Headaches ☐ Eye Pain R L ☐ Light Sensitivity ☐ Sound/ Motion Sensitivity ☐ Blurred Vision ☐ Double Vision  
☐ Focusing Problems D N ☐ Other \_\_\_\_\_

**Subjective Responses in therapy** ☐ None ☐ Eye / Head Pain ☐ Tearing ☐ Inattention ☐ Fidgety ☐ Fatigue

VASC	cc	OD 20	Pupils	Size SS/Lt	PLR	$\alpha\Omega$	APD	NPC
		OS 20	OD	____/____ mm	1 2 3 4+	0 1 2 3 4+	- +	____/____
			OS	____/____ mm	1 2 3 4+	0 1 2 3 4+	- +	

EOM's	Pursuits	Saccades	Hypo/Hypermetric	Other
-------	----------	----------	------------------	-------

OD	SAFE	1	2	3	4+	____%	To R	1	2	3	4+	____	____
OS	SAFE	1	2	3	4+	____%	To L	1	2	3	4+	____	____

Jerky\_\_\_+      Fixation Loss   1   2   3   4

**Impression:** ☐ Visual Field Contraction    **Plan** ☐ Continue Current Filters    ☐ Change Tx \_\_\_\_\_

☐ \_\_\_\_\_ ☐ FUp \_\_\_\_\_ Days \_\_\_\_\_  
Signed \_\_\_\_\_

### Field Expansion Therapy – In Office

DATE    /    /    NAME                      Tx Filter    AO/MD    MU    UO/MU     
 Copay        Day        Total Days Tx        Time (min)                     

**HX** Compliance + - \_\_\_\_\_ Changes in Health/Medication None \_\_\_\_\_  
 Complaints ☐ Headaches ☐ Eye Pain R L ☐ Light Sensitivity ☐ Sound/ Motion Sensitivity ☐ Blurred Vision ☐ Double Vision  
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V <sub>A</sub> sc cc	OD 20	Pupils	Size SS/Lt	PLR	$\alpha\Omega$	APD	NPC
	OS 20	OD	____/____ mm	1 2 3 4+	0 1 2 3 4+	- +	____/____
		OS	____/____ mm	1 2 3 4+	0 1 2 3 4+	- +	

EOM's	Pursuits	Saccades	Hypo/Hypermetric	Other
-------	----------	----------	------------------	-------

OD	SAFE	1	2	3	4+	_____	%	To R	1	2	3	4+	_____	_____
OS	SAFE	1	2	3	4+	_____	%	To L	1	2	3	4+	_____	_____

Jerky\_\_\_+      Fixation Loss    1   2   3   4

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☐ \_\_\_\_\_ ☐ FUp \_\_\_\_\_ Days \_\_\_\_\_  
Signed \_\_\_\_\_



# Patient Management

## Treatment Option

### Home Therapy

The Levine Unit

Hummingbird Unit

The “Fox” Unit

The “Simon Grbevski” Unit

The Eyselux Unit

The Optomatters Home Unit

# Patient Management Treatment Option Home Therapy

The Levine  
Unit  
Glass Filters





# Patient Management Treatment Option Home Therapy

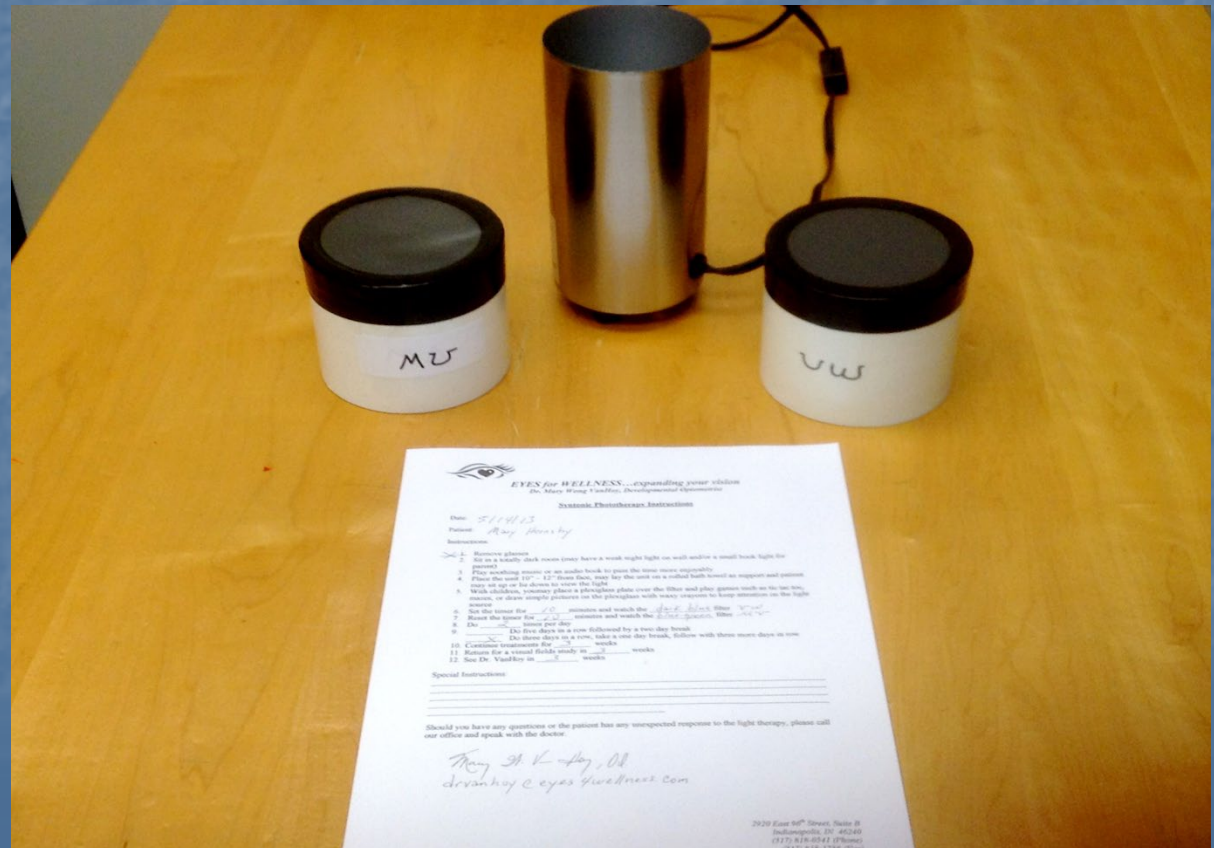
Hummingbird  
Unit  
Glass Filters





# Patient Management Treatment Option Home Therapy

## The “Fox” Unit



# Patient Management

## Treatment Option

### Home Therapy

The “Fox” Unit  
15 Watt bulb  
Roscolux Filter  
Gels





# Patient Management

## Treatment Option

### Home Therapy

The “Fox” Unit

Roscolux Filter  
Gels

#### ROSCOLUX FILTER STOCK NUMBERS FOR SYNTONIC UNITS

1. Alpha #27	Medium Red
2. Omega #59	Indigo
3. Mu #90	Dark Yellow Green
4. Delta #15	Deep Straw
5. Upsilon #74	Night Blue
6. Pi #69	Brilliant Blue
7. Lambda #80	Primary Blue
8. Theta #12	Straw
9. N #4990	Lavendar
10. D #364	Blue Bell
11. S #312	Canary
12. #100 Frost	Diffuser

Resource: [www.indystage.com](http://www.indystage.com)

(800) 637-8243—phone

(317) 635-9433--fax



# Patient Management Treatment Option Home Therapy

The Simon  
Grbevski Unit  
The “Spectrum”  
Glass Lenses



# Patient Management

## Treatment Option

### Home Therapy

#### Eyelux

Home and Office –Glass lenses





# Patient Management Treatment Option Home Therapy

Optomatters Home Unit

The “Color Boy”





# Patient Management Treatment Issues



# Patient Management Treatment Option Home Therapy

## The use of “Goggles”

- Are Filters based on Syntonic filter combinations.
- Should not be cleaned with cleaners.
- Originally used with a Home unit
- Using them is not Syntonics and should not be referred as such.

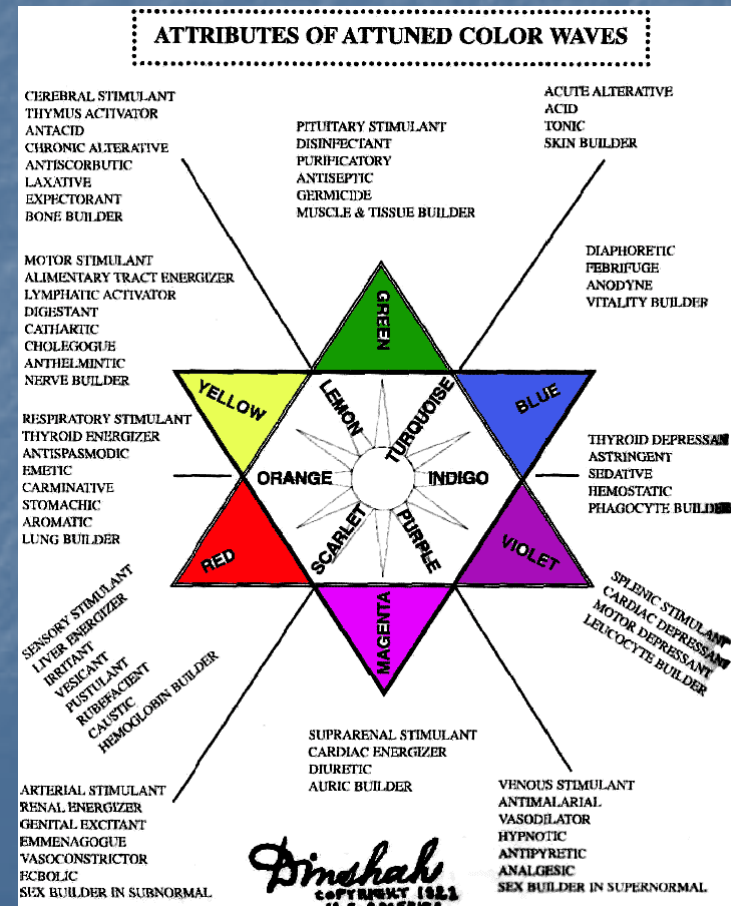




# Patient Management Treatment Option Home Therapy

## The use of “Goggles”

- Fields open significantly slower
- They are a type of Color therapy
  - Tints
  - Spectra Chrome
  - Comra Delta Laser
  - Color Acupuncture
  - Colored crystals, etc
- Can be very effective



# Patient Management

## Treatment Options

### Home Therapy - Administration

- Should be used Daily if possible
- Field to monitor Tx – 7-10 days/21 Days
- Then follow every 2-3 weeks
- Financial Options – Global fee/Insurance
- Rental
- Administrative Forms



# Patient Management

## Home Therapy - Administration

### SYNTONICS RECORD

Patient \_\_\_\_\_ Age \_\_\_\_\_ Date \_\_\_\_\_  
Phone Number \_\_\_\_\_

DATE	Days/Weeks	Filters
4-20-17	1	R10 10 G10 10 S7
	2	
	3	
	4	
	5	
	6 VF	
	7	
	8	
	9	
	10	
	11	
	12 VF	
	13	
	14	
	15	
	16	
	17	
	18	
	19	
	20	



EyeCare Center of Waterbury L.L.C.  
Family Doctors of Optometry

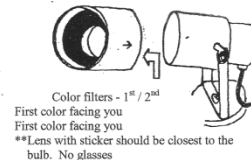
John J. Pulaski, OD FCSO

### Instructions - Home Training Color Therapy

Name \_\_\_\_\_ Unit # \_\_\_\_\_  
Date \_\_\_\_\_

1. You will use the following color combinations:

Color Filters 1 <sup>st</sup> / 2 <sup>nd</sup>	Numbers	Time to be used
1		
2		
3		
4		



- The unit should be used in a completely dark room with the color screen 14-16 inches in front of the eyes. The ideal distance is the Harmon distance, which is the distance from the middle finger's knuckle to the end of the elbow. It is helpful to have a flashlight or dim light to use when changing filters.
- You should gaze directly at the light at all times. You may listen to music or talk as long as you continue to look at the light. With children it has been helpful to ask spelling words or math problems or simply read a story.
- The filters should be used in the order above. The last color listed is the one closest to the back of the instrument (closest to the bulb). Please use care when handling the filters as they are glass and very expensive. They can be cleaned with any glass cleaner.
- When changing to a second filter make sure to turn the instrument off first, since staring into the white light will have a negative effect on the therapy. At the end of the session wait one to two minutes before exposing yourself to brighter lights or sunlight.
- The color unit should be used once a day.
- Your visual fields will be re-evaluated after 7 sessions and after 21 sessions to determine the effectiveness of the therapy. Most people do not need to go more than 21 sessions to obtain the desired results.
- You are responsible for any damage that may occur to the unit or filters. If you have any questions please feel free to call. The cost of replacing the filters is \$28.00 each.  
(for more information go to [www.syntonicsphototherapy.com](http://www.syntonicsphototherapy.com))

625 Wolcott Street  
Waterbury, Ct 06705

Phone 203-754-8339  
Fax 203-753-9030



EyeCare Center of Waterbury L.L.C.  
Family Doctors of Optometry  
John Pulaski OD, FCSO

### Loan/Rental Agreement for the Syntonizer (Home Phototherapy Device)

Patient \_\_\_\_\_ Parent/ \_\_\_\_\_  
Date \_\_\_\_\_ Responsible Party \_\_\_\_\_

I understand that the above visual training equipment is being rented to me for the fee of \$. The rental fee is non-refundable.

Should there be any damage, loss or breakage, I will be responsible for the cost of that equipment.

While using this equipment, if a filter should break, the replacement cost of \$28.00 per lens is your responsibility.

If I do not return the color unit at the conclusion of therapy or if the unit is damaged beyond repair, I consent to allow the Eyecare Center of Waterbury to charge my credit card a fee of \$425.00 for the equipment.

If for some reason my credit card is declined and the unit is not returned or damaged I agree to reimburse The Eyecare Center of Waterbury by certified check or cash.

If the terms of payment for non return or damaged are not satisfied, I understand that I will be responsible for the cost of the equipment plus all court and collection fees.

I have read and understand the above agreement.

I, as the signed party, accept responsibility for this bill, if the unit is not returned or returned damaged.

Signed, \_\_\_\_\_ Rental Fee \$ \_\_\_\_\_

Credit card on file: \_\_\_\_\_ Exp. Date: \_\_\_\_\_

625 Wolcott Street

Waterbury, Ct 06705

(203) 754-8339

# Patient Management Administration Coding

- Initial Visit
  - 92004, 99204, 92060, 92083, 92015
- Progress Evaluation of Field
  - 99213 or 99212
  - Field is a 4 isopter field – 92083 or 92082
- Re-evaluation
  - 99214, 92060
- Office Therapy
  - VT Visit 92065 or 92012



# Patient Management Administration Coding

- Diagnosis Codes
  - H53.48 \_ Generalized Visual Field Contraction
  - H53.42 \_ Scotoma Blind Spot
  - H55.81 Saccadic Dysfunction
  - H55.89 Pursuit Dys/Irregular eye movements
  - H51.11 Convergence Insufficiency
  - H53.71 Glare Sensitivity

# Patient Management

## Field Follow Up

### Field / Progress Evaluation

DATE \_\_\_/\_\_\_/\_\_\_ NAME \_\_\_\_\_ Filter AO/MD MU UO/MU \_\_\_\_\_  
 Copay \_\_\_\_\_ Total Weeks \_\_\_\_\_ Since LastOV \_\_\_\_\_

HX Compliance + - \_\_\_\_\_ Changes in Health/Medication None \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Field Testing Tested by KL JP Reliability 1 2 3 4 \_\_\_\_\_

V A sc cc OD 20 \_\_\_\_\_ Pupils Size SS/Lt PLR  $\alpha\Omega$  APD Near NPC \_\_\_\_\_/\_\_\_\_\_  
 OS 20 \_\_\_\_\_ OD \_\_\_\_\_/\_\_\_\_mm 1 2 3 4+ 0 1 2 3 4+ - + + -  
 OS \_\_\_\_\_/\_\_\_\_mm 1 2 3 4+ 0 1 2 3 4+ - + + -  
 Photophobia None 1 2 3 4+ Other \_\_\_\_\_

Fields White Green Red Blue BS EOM's Pursuits Saccades Hypo/Hypermtric  
 OD \_\_\_\_\_% \_\_\_\_\_% \_\_\_\_\_% \_\_\_\_\_% \_\_\_\_\_ SAFE 1 2 3 4+ \_\_\_\_\_% Rt 1 2 3 4+ \_\_\_\_\_  
 OS \_\_\_\_\_% \_\_\_\_\_% \_\_\_\_\_% \_\_\_\_\_% \_\_\_\_\_ SAFE 1 2 3 4+ \_\_\_\_\_% Lt 1 2 3 4+ \_\_\_\_\_  
 Jerky 1 2 3 4+ Fixation Loss 1 2 3 4+ Sac Int \_\_\_\_\_+

Dynamic OD \_\_\_\_\_ Impression ☐ Visual Field Contraction Plan ☐ Continue Current Filters  
 OS \_\_\_\_\_ ☐ Improving W C ☐ Same W C ☐ FUp \_\_\_\_\_ Weeks

Externals OD OS ☐ Worse OD OS ☐ Asymmetric ☐ Pursuit / Saccadic Dysfunction ☐ Change Tx \_\_\_\_\_  
 Lid/Lash \_\_\_\_\_ ☐ Pupillary Abnormality \_\_\_\_\_  
 Conjunctiva \_\_\_\_\_ ☐ Convergence Insufficiency \_\_\_\_\_



# Patient Management

## Clinical Consideration/Pearls

- How to explain field in relation and findings to patient/parent at end of exam?
  - Have a full field and a chart of showing Tx results.
  - Explanation of field. Kinetic vs Static vs CF
  - How does it relate to other examination findings?
  - How does it relate to their behavior and effect on ADL's, sports, school work, etc.?
  - How does it relate to symptoms?
- How do you explain that you are going to open this field by "staring at a light for 20 minutes."?

# Patient Management

## Clinical Consideration/Pearls

- Choosing filters

  - Determine the state of ANS

  - Chronic vs Acute

  - Where is Stress

  - Exo/Eso only in regards to above

- Preparing patient for initial Home treatment

  - Explain protocol and directions of use carefully

  - Must look at colored portion of light

  - Don't look at "white" light

  - First 3 days



# Patient Management

## Clinical Consideration/Pearls

- When to prescribe Lenses/VT?

Many options

- Do I use lenses with testing and treatment?

Normally do not. Contacts.

- How often do I treat?

Daily or minimum 3x/week.

- Do I ever have to change the filters?

Yes when field is not responding or worsening.

- What about very sensitive patients?

Need to start slow for shorter periods and gentle filters.

# Patient Management

## Clinical Consideration/Pearls

- What if Field not opening in beginning?
  - Check Unit and Patient procedure
  - Is child with parent – are they doing it alone?
  - Change of filters needed?
  - Illness
- How long do I treat?
  - Treat as long as field continues to open. There may come a plateau where the changes need to be integrated/assimilated.



# Patient Management

## Clinical Consideration/Pearls

When do I stop?

- When field is full
- When field reaches a plateau
- When becomes too much to handle.
- What if patient is sick?

Will the field regress?

- Field should be full
- Blind spot is key

Mentors – Facebook. Don't be afraid to call.

Mentors

Fellowship



# Measurements and Tests Influenced by Field Changes

- Refraction
- Phoria
- NPC
- Far/Near Focus
- Pursuits - Tracking
- Saccades
- DEM
- VO Star
- Streff Cap Test  
(Localization)
- Visual Scanning
- Incomplete Man  
Copy Forms
- Pupillary Reactions

# Measurements Influenced by Field Changes

## Refraction Changes Pre/Post

Pre	Post
+100	+150
+075	+150
+200-250 x 170 +200-250 x 10	No Change
-.25	Plano
Plano	Plano
Plano	+0.50
-.25-50 x 180	+0.75
Pl -025 x135	+50 -50 x 100
Pl -050 x 75	+50 -25 x 75

Pre	Post
-025-025 x 180	+050
-025	+050-25 x 180
-075	-075
-075	-075
-025	-025
-025	-025
+025	+050
+025	+050



# Measurements Influenced by Field Changes

## Book Retinoscopy Pre/Post

Pre	Post
+075	+125
+050	+125
+300-250 x 170	+275-250 x 170
+300-250 x 10	+275-250 x 10
+062	+062
+075	+062
+.50	+0.75
+.75-50 x 180	+0.75
+1.50	+1.25
+1.50	+1.25

Pre	Post
+50-025 x 180	+075
+50	+075-25 x 180
+1.25	+1.00
+1.25	+1.00
+050	+075
+050	+075
+100	+050
+100	+050

# Measurements Influenced by Field Change

## Phoria

## NPC

Pre	Post
Ortho/3eso	1exo/4exo
1exo/3exo	Ortho/6exo
Ortho/5eso	1exo/5exo
3exo/9exo 6exo/12exo	2exo/8exo 1exo/10exo
3eso/9eso	1eso/6eso

Pre	Post
2/4	1/3
3/9	2/6
2/12	2/6
1/4	1/3
3/6 3/7	2/6 2/5



# Measurements Influenced by Field Changes

## ■ Far/Near Focus

Improvement in all cases – all some degree of difficulty

## ■ Pursuits – Tracking

Pre - Excessive head move, misfixations, jerky

Post – Every case showed significant improvement. Most were smooth with no head.

## ■ Saccades

Pre - 90% were inaccurate

Undershoots, Head move, Fatigue prevalent

Post – Significant improvement in all cases

# Measurements Influenced by Field Changes

## Visual Scanning

### Visual Scan – Davis Dot Test

Pre	Post	Age Equivalent Change
38 Dots	43 Dots 2 years	
32	46	5
33	35	1
40	55	5
38	50	4
18	35	6
34	42	2
25	28	1
30	34	2
33	33	no change
36	43	3