Syntonics Practice Management

Syntonics 101 May 2021

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

Traditional – Syntonizer, "The College Unit"

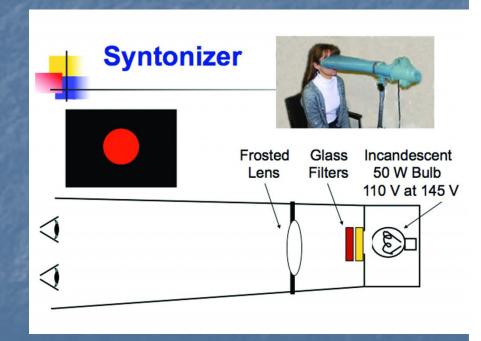
Home unit in Office

Advantages/Disadvantages

Patient Management Treatment

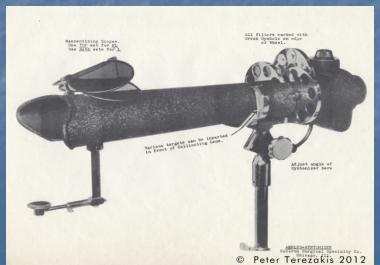
The design of the Syntonizer

- 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.



Traditional
Syntonizer
"The College
Unit"







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

Traditional
Syntonizer
"The College
Unit"
Group 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

| Medi Medi Medi Medi syment Ins Package \$ | | | | | | | | | | |
|---|------|------|-------------|----------------|----|-------------|---------------|------------------|-------|----------|
| | Date | Pymt | Ins Sent | Alpha Delta | AO | Mu Delta | Mu Upsilon | Upsilon Omega | Other | Comments |
| _ | | | | | | | | | | |
| _ | | | | | | | | | | |
| | | | | | | | - | | | |
| | | | | | | | | | | |
| | | - | | | | | | | | |
| | | | | | | | | | | - |
| _ | - | - | | | | | , | | | |
| - | | | | | | | | | | |
| | | | | | | | | | | |
| | - | | | | | | | | | |
| | | - | | | | | | | | - |
| _ | | | | | | | | | | |
| _ | | | | | | | | | | |
| _ | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | - | | | | | | | | - |
| | | | | | | | | | | - |
| _ | | | | | | | | | | - |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| _ | | | | | | | | | | - |
| _ | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | - | | | | | | | | |
| | | | | - | | | | | | |
| | | + | - | | | | - | | | |

Rec #____ State ID #_

| DATE / / | NAME | | Tx Filter AO/MD MU UO/MU |
|---|--|--|---|
| Copay | Day | Total Days Tx | Tx Filter AO/MD MU UO/MU Time (min) |
| Complaints Headach | nes T Eve Pain I | R L Light Sensitivity | Health/Medication_None_ Sound/ Motion Sensitivity |
| | | | in Tearing Inattention Fidgety Fatigue |
| VA sc cc OD 20_ | Pupils | Size SS/Lt PLR | $\alpha\Omega$ APD NPC/ |
| OS 20 | OD | /mm 1 2 | 3 4+ 01 2 3 4+ - + 3 4+ 01 2 3 4+ - + |
| EOM's Pursu | its | Saccades Hypo/Hyper | zmetric Other |
| OD SAFE 1 2 3 | 4+% | Saccades Hypo/Hyper To R 1 2 3 4+ To L 1 2 3 4+ | |
| OS SAFE 1 2 3 | 4+% | To L 1 2 3 4+ | |
| Jerky+ Fixatio | | | tinue Current Filters Change Tx |
| Timpression: | saar i icia Con | diaction 1 min _ con | tinue Current ritters |
| | | □ FUp | Days |
| | | □ FUp | Days Signed |
| Field Expansi | on Therap | y – In Office | |
| Field Expansion DATE/ Copay | on Therap _ NAME _ Day | y – In Office _ Total Days Tx | _ Tx Filter AO/MD MU UO/MU |
| Field Expansic DATE// Copay HX Compliance + | On Therap NAME Day But Bee Pain | y – In Office Total Days Tx Changes in R L Light Sensitivity | |
| Field Expansion DATE// Copay HX Compliance + Complaints Headacl | ON Therap NAME Day | y – In Office _ Total Days Tx Changes in R L Light Sensitivity her | Tx_Filter AO/MD MU UO/MU Time (min) None ISound/ Motion Sensitivity □ Blurred Vision □ Double Visio |
| Field Expansion DATE/_/ Copay HX Compliance + Complaints Headacl | On Therap NAME Day | y − In Office Total Days Tx Changes in I R L □ Light Sensitivity □ her None □ Eye / Head Pa Size SS/Lt PLR / mm 1 2 | Tx Filter AO/MD MU UO/MU |
| Field Expansion DATE// Copay HX Compliance + ComplaintsHeadacl | On Therap NAME Day | Total Days Tx Changes in IR L Light Sensitivity her None Eye / Head P: Size SS/Lt PLR /_ mm 1 2 /_ mm 1 | _ Tx Filter AO/MD MU UO/MU |
| Field Expansion DATE// Copay HX Compliance + ComplaintsHeadacl | On Therap NAME Day | Total Days Tx Changes in IR L Light Sensitivity her None Eye / Head P: Size SS/Lt PLR /_ mm 1 2 /_ mm 1 | _ Tx Filter AO/MD MU UO/MU |
| Field Expansion DATE// Copay HX Compliance + Complaints Headacl | on Therap NAME Day tes Eye Pain tems D N Ot ses in therapy Pupils OD OS its 4+% 4+% | Total Days Tx Changes in I R L Light Sensitivity her None Eye / Head Pa Size SS/Lt PLR /_mm 1 2 /_mm 1 2 Saccades Hypo/Hyper To R 1 2 3 4+ To L 1 2 3 4+ | _ Tx Filter AO/MD MU UO/MU |
| Field Expansion DATE / / Copay | on Therap NAME Day Sees in therapy Pupils OD OS its 4+ % 4+ % In Loss 1 2 3 | Total Days TxChanges in R L Light Sensitivityher None Eye / Head P: Size SS/Lt PLR /_ mm | _ Tx Filter AO/MD MU UO/MU |

The Levine Unit
Hummingbird Unit
The "Fox" Unit
The "Simon Grbevski" Unit
The Eyelux Unit
The Optomatters Home Unit

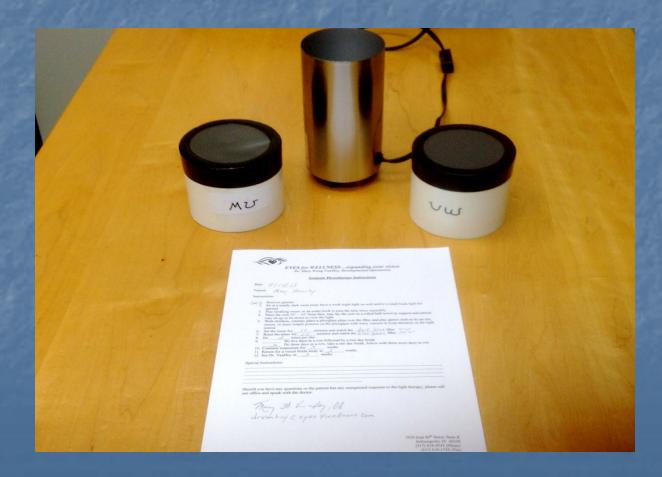
The Levine Unit Glass Filters



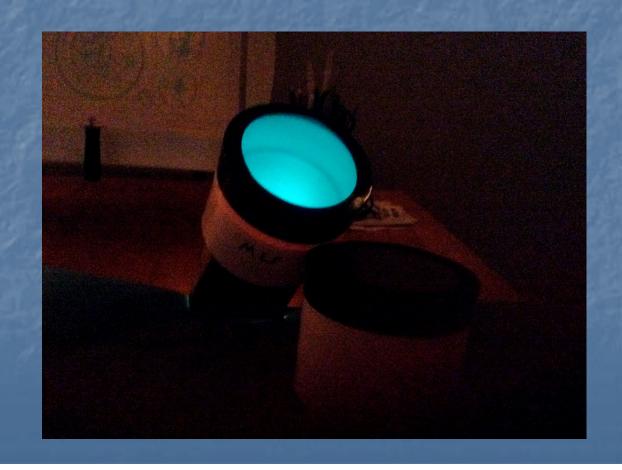
Hummingbird Unit Glass Filters



The "Fox" Unit



The "Fox" Unit 15 Watt bulb Roscolux Filter Gels



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

(800) 637-8243—phone

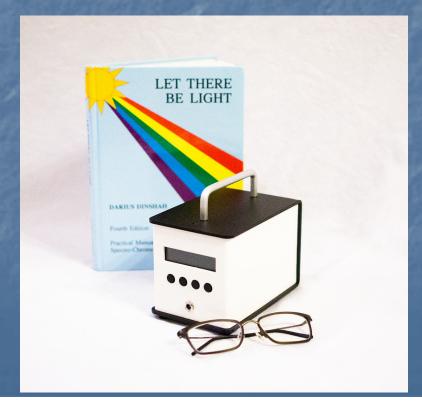
(317) 635-9433--fax

The Simon
Grbevski Unit
The "Spectrum"

Glass Lenses



Patient Management Treatment Option Home Therapy Eyelux Home and Office –Glass lenses



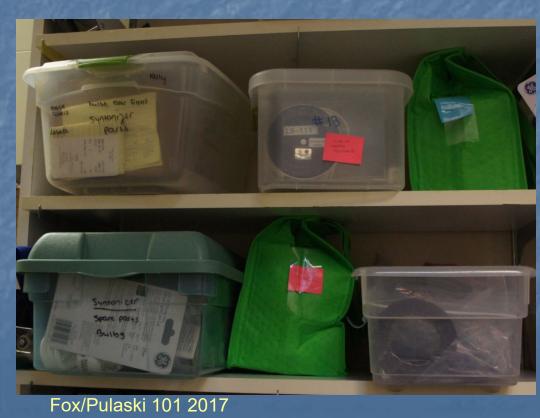


Optomatters Home Unit The "Color Boy"





Patient Management Treatment Issues





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.

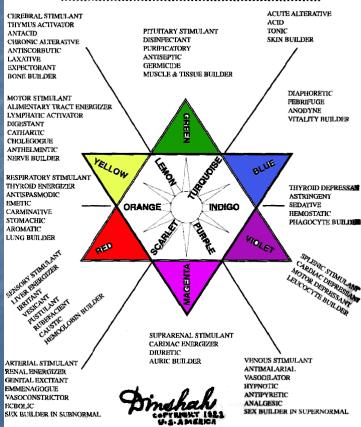


The use of "Goggles"

- Fields open significantly slower
- They are a type of Color therapy
 - **Tints**
 - Spectra Chrome
 - Comra Delta Laser

Color Acupuncture Colored crystals, etc SUPRARENAL STIMULANT Can be very effective CARDIAC ENERGIZER VENOUS STIMULANT ANTIMALARIAL RENAL ENERGIZER VASODELATOR GENITAL EXCITANT HYPNOTIC

ATTRIBUTES OF ATTUNED COLOR WAVES



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



Patient € , ... Age Date

Phone Number____

| DATE | Days/Weeks | | | Filters | | |
|---------|------------|-----|------|---------|----|------|
| 4-20-17 | 1 | RIB | 10 | 0-10 | 10 | 57 |
| | 2 | | | | | _ |
| | 3 | | | | | |
| | 4 | | | | | |
| - | 5 | | | | | |
| | 6 VF | | 77. | | | |
| | 7 | | | | | |
| | 8 | | | | | |
| | 9 | | | | | |
| | 10 | | | | | |
| | 11 | | | | | |
| | 12 VF | | | | | |
| | 13 | | | | | |
| | 14 | | 30.1 | | | |
| | 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 Date | _ | Unit # | | | 1. |
|------------------------|--------------|-----------------|--|---|--------------|
| You will use the follo | wing color c | combinations: | | 9 | |
| Color Filters 1st /2nd | Numbers | Time to be used | | Color filters - 1 st / 2 nd First color facing you | 190 |
| 2 | | | | First color facing you | 9 |
| 3 4 | = | | | **Lens with sticker should be cl bulb. No glasses | osest to the |

- 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.
- 4. 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.
- 5. 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.
- 6. 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

(for more information go to www.syntomesphotometapy.com

625 Wolcott Street Waterbury, Ct 0670 Phone 203-754-833 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 Rectal Eq. \$

Waterbury, Ct 06705

| Signou, | Nortal Fee 9 | |
|----------------------|--------------|--|
| | | |
| Credit card on file: | Exp. Date: | |

625 Wolcott Street

(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 Copay HX Compliance + Change | Total Weeks Since LastOV |
|--|--|
| | |
| Field Testing Tested by KL JP Reliability | 1 2 3 4 |
| VA 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+ - + + - |
| | 1 2 3 4+ 0 1 2 3 4+ - + + - |
| Photophobia None | |
| Fields White Green Red Blue BS | EOM's Pursuits Saccades Hypo/Hypermetric |
| 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 \square Visu | al Field Contraction Plan Continue Current Filters |
| OS | ving W C Same W C FUp Weeks |
| ☐ Worse | OD OS Asymmetric |
| | uit / Saccadic Dysfunction |
| | llary Abnormality |
| Conjunctiva Con | vergence Insufficiency |

- 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."?

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

- 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.

- 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.

When do I stop?

- When field is full
- When field reaches a plateau
- When becomes to 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 ManCopy Forms
- Pupillary Reactions

Measurements Influenced by Field Changes Refraction Changes Pre/Post

| Pre | Post |
|----------------|---------------|
| +100 | +150 |
| +075 | +150 |
| +200-250 x 170 | No Change |
| +200-250 x 10 | |
| 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 | 2exo/8exo |
| 6exo/12exo | 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 |
| 3/7 | 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

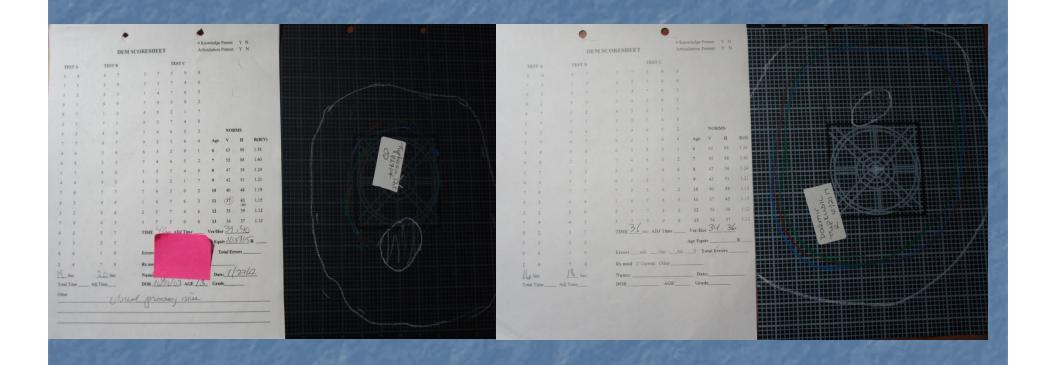
Post – Significant improvement in all cases

Measurements Influenced by Field Changes Visual Scanning

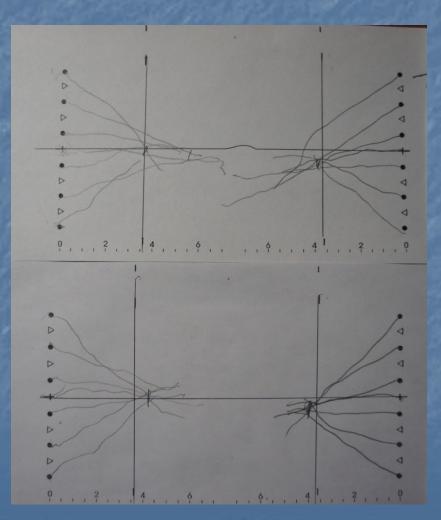
Visual Scan – Davis Dot Test

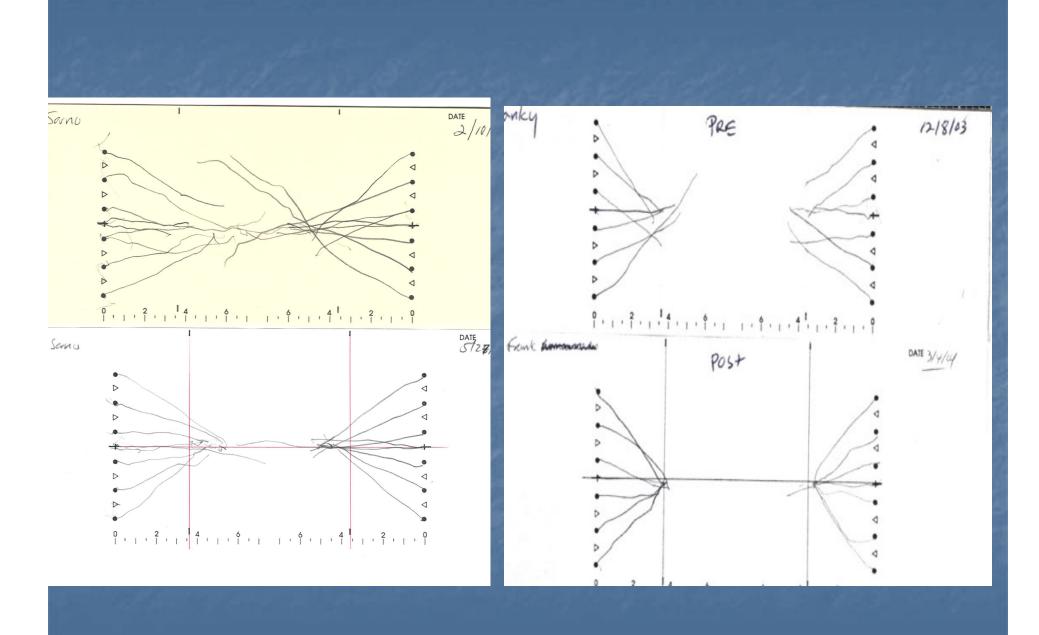
| Pre | Post | Age Equivalent Change |
|------------------|-----------------|-----------------------|
| 38 Dots | 43 Dots 2 years | |
| 32 | 46 | 5 |
| 33 | 35 | 1 |
| 40 | 55 | 5 |
| 38 | 50 | 4 |
| 18 | 35 | 6 |
| 34 | 42 | 2 |
| 25 | 28 | |
| 30 | 34 | 2 |
| 33 | 33 | no change |
| 36 | 43 | 3 |
| Pulaski 101 2017 | | |

Measurements Influenced by Field Changes Other Testing DEM



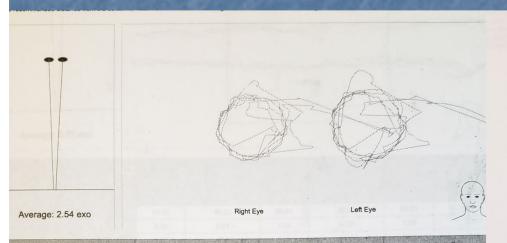
Measurements Influenced by Field Changes Other Testing VO Star





Measurements Influenced by Field Changes Other Testing

Right Eye



| rics | Right Eye | | Left Eye | | Both Eye | |
|---------------------------------|-----------|-------------------------|-----------|----------------------|----------|---------------------|
| | Actual | Population Age 53-62 | Actual | Population Age 53-62 | Actual | Population Age 53-6 |
| | | | | | | |
| cade (%) | 11.12 | 4.37 | 14.65 | 4.8 | 12.73 | 4.02 |
| tion (%) | 2.53 | 3.81 | 1.23 | 3.64 | 4.15 | 2.17 |
| Target Velocity Error (dps) | 21.55 | 14.77 | 21.07 | 14.67 | 21.21 | 14.59 |
| zontal Synchronization SP (0-1) | 0.97 | 0.91 | 0.95 | 0.9 | 0.96 | 0.91 |
| ical Synchronization SP (0-1) | 0.98 | 0.87 | 0.97 | 0.88 | 0.98 | 0.87 |
| -Metrics Actual | R | tight Eye | | Left Eye | 1 444 | Both Eye |
| | 1 200 | Population | 1000000 | Population | | Populat |
| | Age 53-62 | Actual | Age 53-62 | Actual | Age 53 | |
| arget Smooth Pursuit (%) | 26.52 | 59.21 | 52.64 | 64.5 | 59.19 | 68.9 |
| ictive Smooth Pursuit (%) | 16.74 | 5.97 | 8.02 | 3.1 | 7.20 | 1.87 |
| nt Smooth Pursuit (%) | 37.70 | 14.82 | 17.73 | 10.89 | 11.35 | 15.4 |

