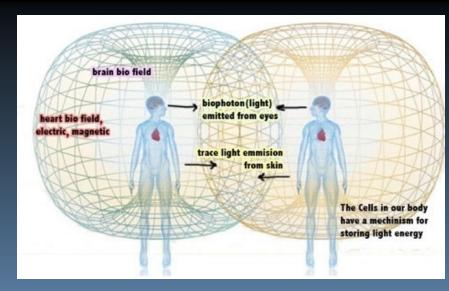
The Syntonic Field Functional/Kinetic

Syntonics 101
January 2025
Cambridge, Canada
John Pulaski, OD, FCSO

The Syntonic Visual Field



Fritz Popp, a German physicist and inventor of the biophoton theory described the biophoton field that surrounds living organisms as being highly complex, self-tuneable, oscillating fields of energy. This 'field' regulates and controls all our life processes. When we plot colour visual fields, we are measuring information that the brain receives from the eyes and the eyes receive from the 'field'. In the same way as we emit a spectrographic pattern of our electromagnetic field, we can plot colour emanation from the brain. This colour visual field then describes the emergent biophoton field of a human being.

Pulaski 102 2021

The Visual Field Types of Measurements

- 1. Gross awareness to light stimulus
- 2. Confrontation Fields
- 3. Form Fields object awareness
- 4. Extinction Phenomena
- 5. Static (Automated)
- 6. Kinetic (Functional)
- 7. Frequency Doubler (FDT)

The Visual Field Measurement **Techniques**

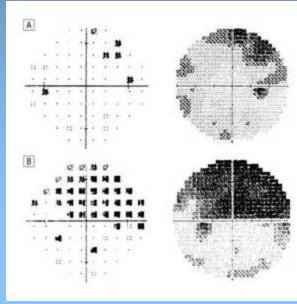
Static (Automated)

Conventional, Computerized, "Gold Standard"

Involves detection of a stationary target

- Generally white light only.
- Threshold of light sensitivity
- Is for detecting pathology
- Relates to the "structural" integrity of the visual pathways in the brain. Fox/Pulaski 12/17 101





The Visual Field Measurement Techniques

Kinetic (Functional)

- Campimetric, Goldmann, Tangent Screen
- Used with stereo campimeter in Syntonics
- Detection of a moving target from nonseeing to seeing – Magnocellular plus color recognition.
- Reveals pathologic as well as perceptual deficits
- Can be improved and used to monitor effectiveness of any treatment modality
- Test multiple levels of function
 Motion, white and 3 colored targets

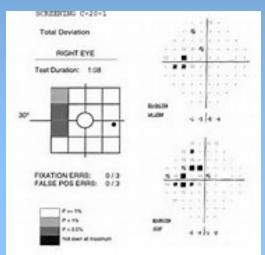


The Visual Field Measurement Techniques

Frequency Doubler (FDT)

- High Temporal Frequency
 Flicker Rate
- Flicker Sensitivity involves interpretation by retinal periphery
- Magnocellular or cortical pathways
- Correlates well with the kinetic field we measure in Syntonics







The Visual Field Static vs Kinetic Field



I OW SPATIAL RESOLUTION WITH STATIC PERIMETRY

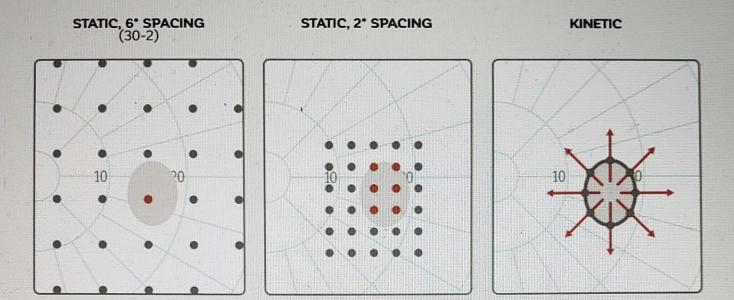


FIGURE 11-1 Static perimetry has relatively low spatial resolution as demonstrated in this example in which the blind spot is tested. Using a 30-2 pattern with 6° spacing, only one or two locations are tested within the blind spot, providing no details about its size. Using a customized test pattern with 2° spacing provides higher, but not optimal resolution, while increasing test duration. Kinetic perimetry in this situation provides much higher spatial resolution with similar or lower test duration.



The Visual Field Static vs Kinetic Field



SLOW PERIPHERAL TESTING WITH STATIC PERIMETRY

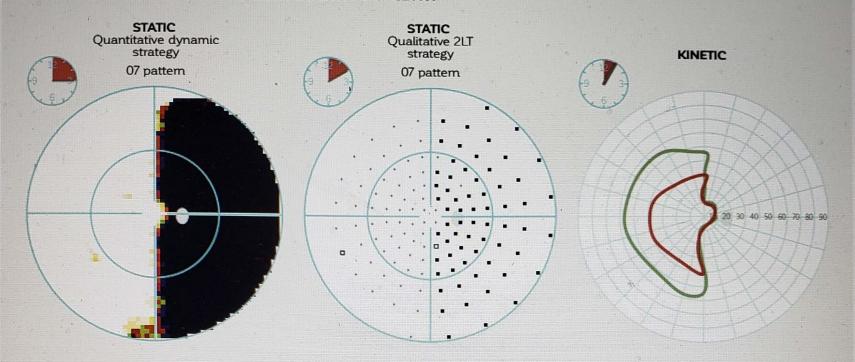
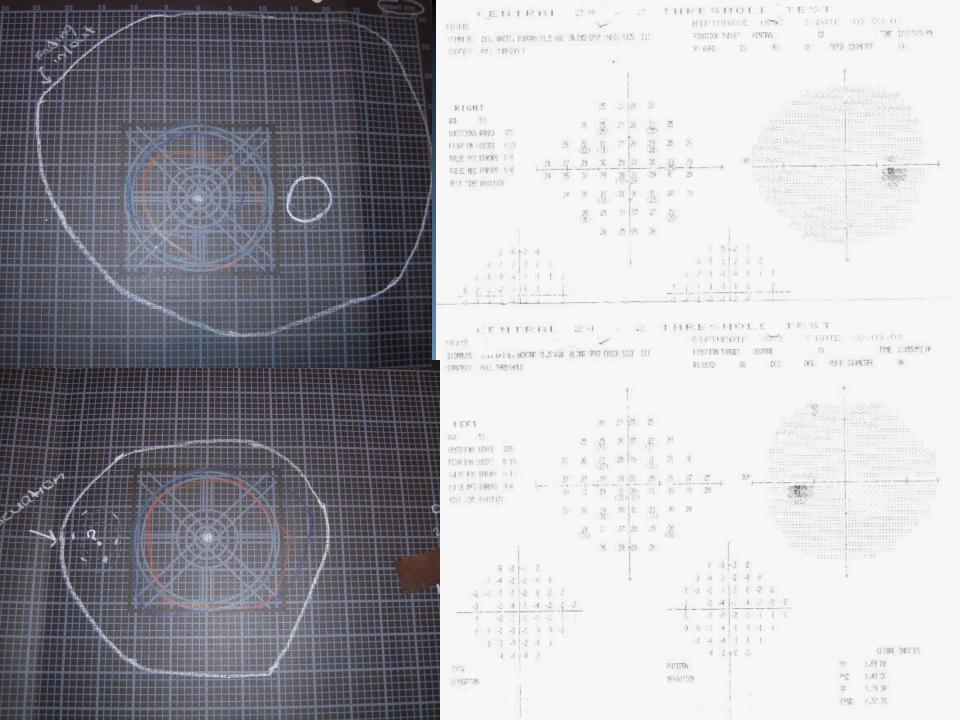


FIGURE 11-2 Peripheral testing with static perimetry is time-consuming under both quantitative and qualitative strategies, as this example of a postchiasmal lesion resulting in hemianopia with macular sparing demonstrates. Note that a kinetic test can be up to three times faster than a quantitative static test.

*



The Kinetic Visual Field

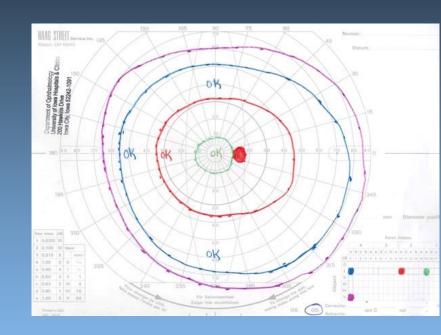
Why do it?

What is so unique and valuable about this field?

Why can it be used to monitor any therapies?

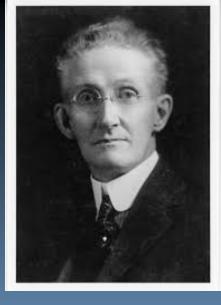
 Colour visual field analysis, among the most important biological visual tests known to science.'

T.A.Brombach, 1936



- Imbalances of the extraocular muscles are reflected in visual field charts.
- Early changes in the peripheral limits of the colour field are the first sign of impending pathology
- Fatigue appears to produce shrinkage of the fields, with one eye consistently presenting a greater amount of collapse.

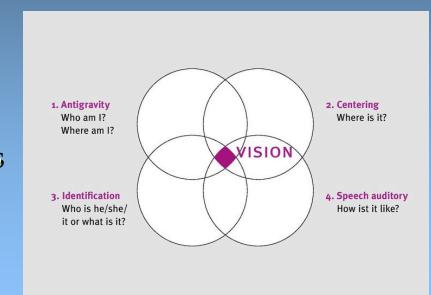
Brombach 1928



The Kinetic Visual Field Process of Projection Skeffington – The Emergent



- Vison involves a projection into and interaction with the world around us.
- It includes both Input and Output as an ongoing process.
- This interaction is on ALL levels of perception that includes integration of movement through Visual, Cortical and Vestibular processes.



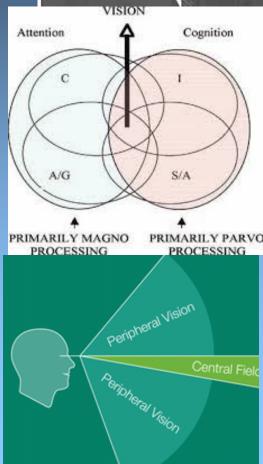
The Kinetic Visual Field Process of Projection Skeffington – The Emergent

"The "What to do" is compounded out of the experiences from ALL of the inputs of the WHOLE body ... and organism.

"Stresses bring a constriction of the movement patterns. The constriction IS the visual problem."

Practical Applied Optometry

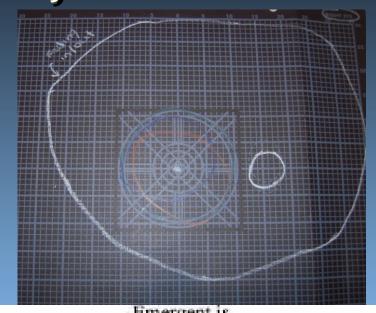


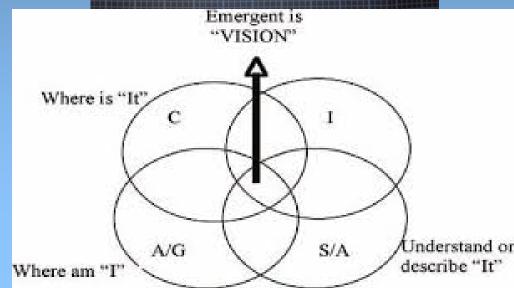


The Kinetic Visual Field **Process of Projection**

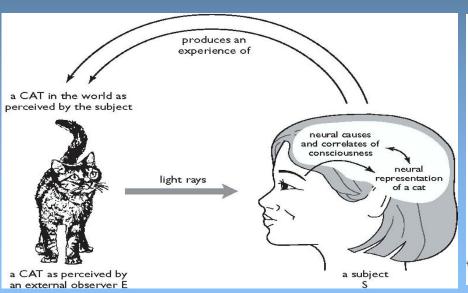
The Emergent is Vision

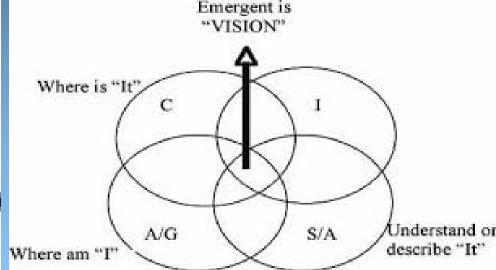
- It is Projection of the world created by the brain
- It is my belief that this is what we are measuring with the Campimetric field.
- "The whole cookie" Abe Shapiro
- The emergent biophoton field of the human being Fritz Popp





- I believe it is a measure of capacity of the brain to process visual information and then project the image accurately into space.
- It reveals integrity of "Where, What" and the movement or action pathways.





It is an extremely sensitive field measurement of visual performance and efficiency. A compressed field effects such areas as:

- Pursuit and Saccadic fixations
- Reading speed and processing
- Handwriting
- Sports performance
- Spatial perception
- Behavior



Relates to the structural and functional integrity of the visual pathways in the brain with deficits <u>not detectable</u> by other testing.

- Post Concussion Syndrome
- Diffuse Axonal Injury
- Stroke
- Lyme Disease
- Neurological Disease

It can be used in monitoring the success of all modalities of therapy.

- Vision Therapy
- Medical Treatment
- Neuro-chiropractic
- Functional Body therapists PT
- Psychology

The Kinetic Visual Field What are We Measuring?

 It reveals the capacity of the brain to process visual input on all levels of visual perception



Fox/Pulaski 12/17 101 20

Opening a field is the key to overall wellness and accurate integration with the world and people around us.

It is the most important measurement you will do as a clinician!

The Kinetic, Functional Field

Measurement

The Kinetic Visual Field Measurement The Field Unit



The Kinetic Visual Field Measurement The Field Unit

Campimeters





- Motion Field (1 or 1.5 degree target)
- Detection of target. Four targets (nonseeing to seeing) (1 or 1.5 degree target)

White

Green

Red

Blue

Blind spot (non-seeing to seeing) (.5 or 1 degree target)

Make sure feet are supported

Make sure table height is comfortable

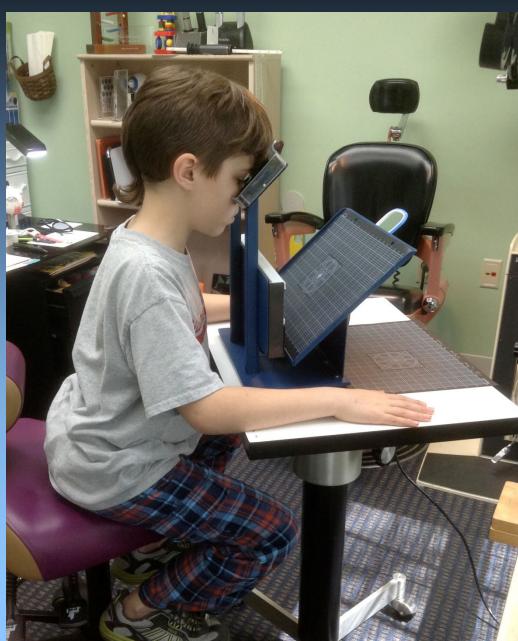
Hands on the sides of table

Forehead gently against head rest

Done Monocularly. No RX

Lower intensity brightness of lamp

A mirror taped at top to observe Patient's fixation

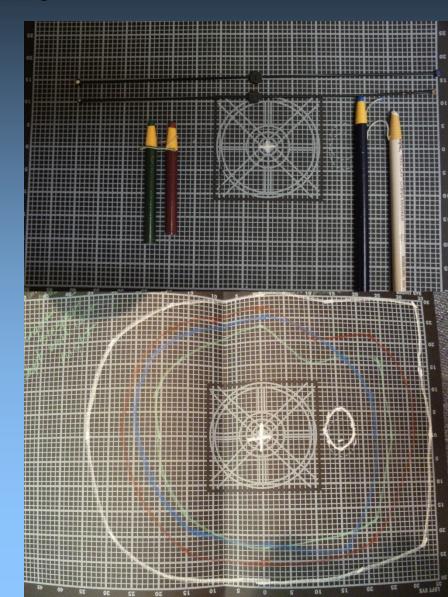


Label on Chart

- Name
- Date
- •Which eye
- •With or without Rx
- Time of Day
- Not necessary to draw on another chart.
- Use a label



- 1. Mark Fixation spot. White cross in center of chart
- 2. For Children Face, Picture, etc
- 3. Key Monitor fixation mirror top or behind chart
- 4. Measure peripheral motion field with 5mm (1.5°) white dot
- 5. Measure White (1°), blind spot (1 or .5°) and then colors with 1mm target.
- Measure overall field at least 8-12 points. Blind spot 8 points.



Educate Patient to Test

- What do you ask as you chart.
- General Instruction
- Always give a trial especially the colors
- Motion
- White first aware of white target.
- Blind Spot
- Colors



Norms for Visual Fields Borish

Clinical Refraction 3rd Edition

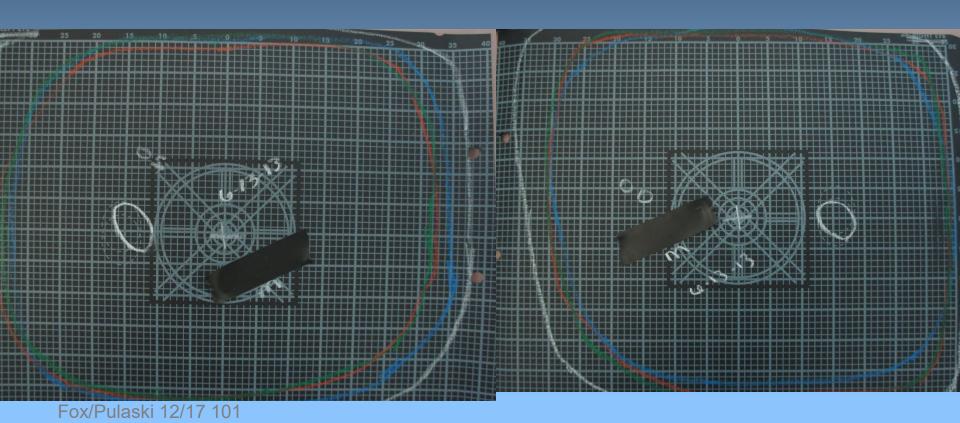
	White (form)	Blue	Red	Green
Out:	100^{0}	75 ⁰	41 ⁰	30^{0}
In:	60^{0}	38^{0}	23 ⁰	18^0
Up:	60_{0}	38 ⁰	26 ⁰	18^{0}
Down	30^{0}	4 00	29 ⁰	24 ⁰

Norms for Visual Fields Samuel Pesner, OD

(Peter & Hirschberg, 5 mm target @ 33 cm)

	Blue	Red	Green	
Out	65	40	30	
In	39	25	19	
Up	39	26	18	
Down	38	30	25	

The Kinetic Visual Field The Normal Visual Field



The Kinetic Visual Field Interpretation

Motion Field

The extreme periphery of the retina capable of receiving sensations of motion without recognition of contour [motion is first form of vision – R. Melillo]

Form Field - White

Recognition of contours of an object extent is when the patient can retain the perception of white in a stationary position

33

The Kinetic Visual Field Interpretation

Color Fields

- Test green, red, blue (smallest to largest)
- There should be no interlacing or overlapping
- When testing be aware of the patient noting the fading of color or color coming on and off.

34

The Kinetic Visual Field Interpretation - Colors

• Green:

An indicator of personal relationships, our immune systems, our lifestyles and chemical toxicity levels. It reveals our level of exhaustion. Focal infections, choroidal or retinal disease such as abscessed tooth, tonsillar infection, sinusitis, poisoning such as alcohol, drugs, paint

• Red:

Represents the physical body, the major organs, an indication of one's physical and structural strength. Systemic chronic conditions, Diabetes, Hypertension or increased white blood count causes constriction.

• Blue:

Related to heart/circulation, Adrenals. Both physical and emotional, "broken heart." A strong indicator of psychological stress.

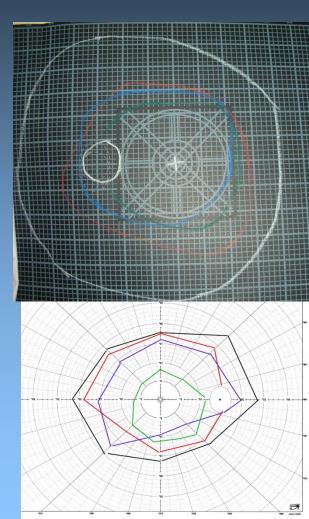
The Kinetic Visual Field Interpretation

Interlacing

- Interlacing of the color fields: exogenous (outside the body) toxemias such as alcohol, drugs, tobacco, coffee, tea
- Interlacing from endogenous (within the body) such as diabetes, kidney disease, glandular conditions may also cause color field constrictions and interlacing

Low Fusional Reserves

 Lateral depressions, especially in the nasal field for red and blue only





Stormy's gone, of course. He died before the last Yankee clipper furled her silver sails. But stories about "that good old man" are told still wherever old sailors gather. Just where Old Stormalong was born isn't important. He first appeared on a wharf in Boston Harbor. The captain of the Lady of the Sea, the largest clipper ship in the China trade, was signing on men. Stormy gave his full name, Alfred Bullrod Stormalong. Without looking up from his ledger, the captain wrote down the initials, "A.B."

A. B. Stormalong stood five fathoms tall, which is the same as thirty feet. The captain glanced up at his new man. He whistled with surprise. "Phew!" he said. "There's an able-bodied seaman for you, boys."

Someone noticed that the giant's initials stood for just that. From that day to this sailors have tacked A. B. after their names. This shows that



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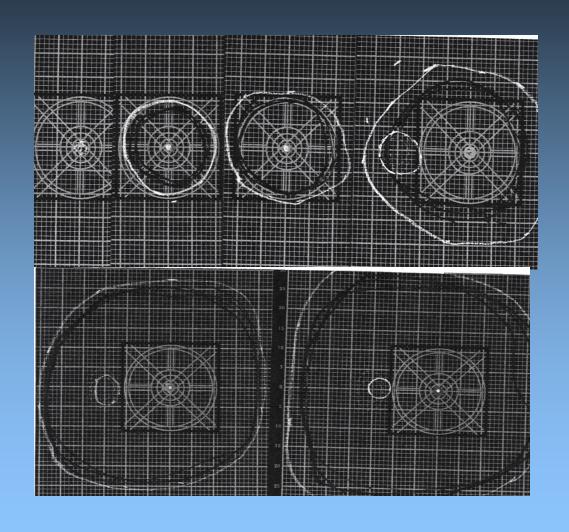
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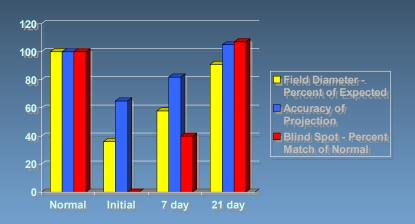


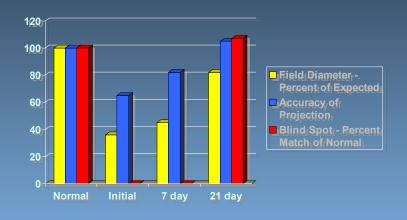
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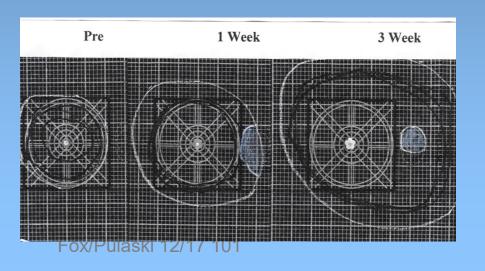
The Kinetic Visual Field To Monitor Success of Therapy

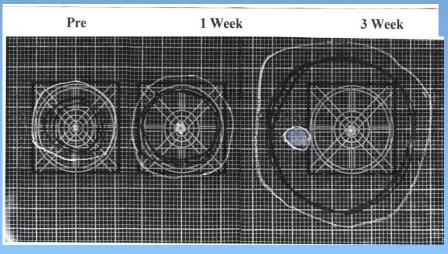


Change in Projection, Field, Blind Spot with Syntonic Light Therapy Case 1 Stephanie - OU

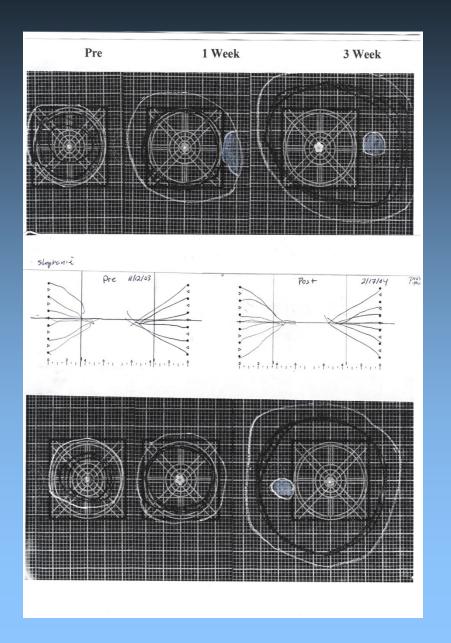








Case 1 Stephanie



Measurements and Tests Influenced by Field Changes

- Refraction
- Phoria
- NPC
- Far/Near Focus
- Pursuit Movements
- Saccadic Fixations

- 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	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	2/6
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

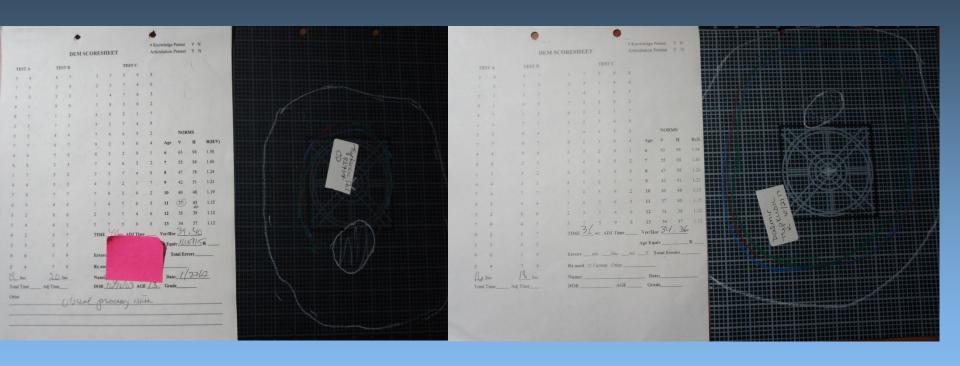
Pre - 90% were inaccurate
Undershoots, Head move, Fatigue prevalent
Post – Significant improvement in all cases

Measurements Influenced by Field Changes Visual Scanning

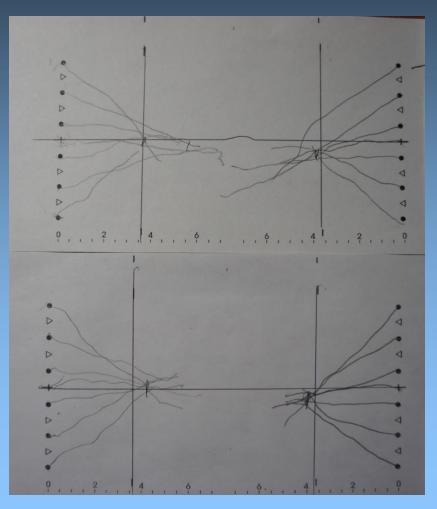
Visual Scan – Davis Dot Test

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	
30	34	2
		no change
36	43	

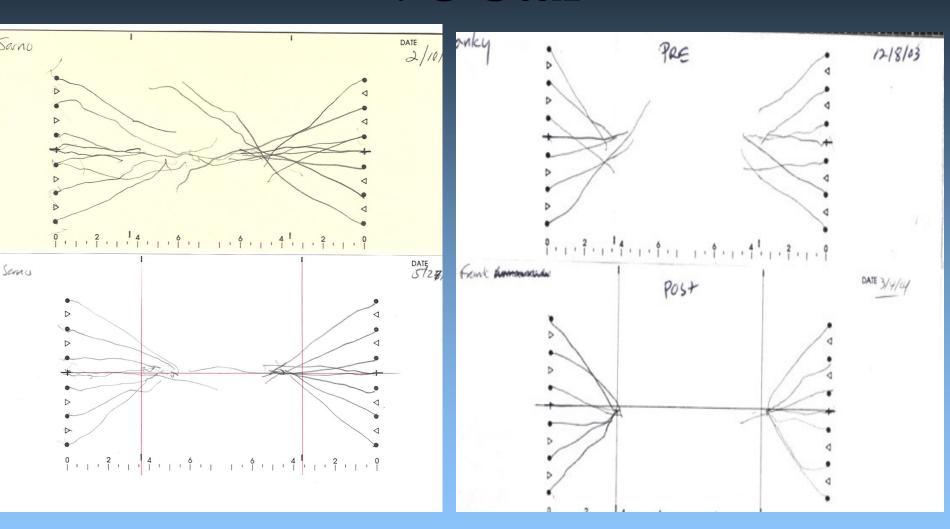
Measurements Influenced by Field Changes Other Testing DEM



Measurements Influenced by Field Changes Other Testing VO Star

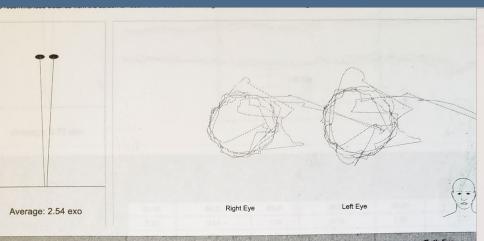


VO Star

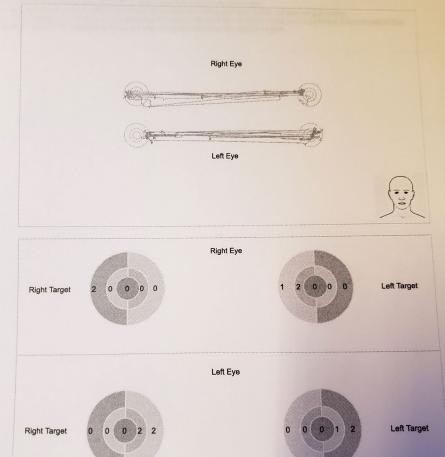


Measurements Influenced by Field Changes Other Testing

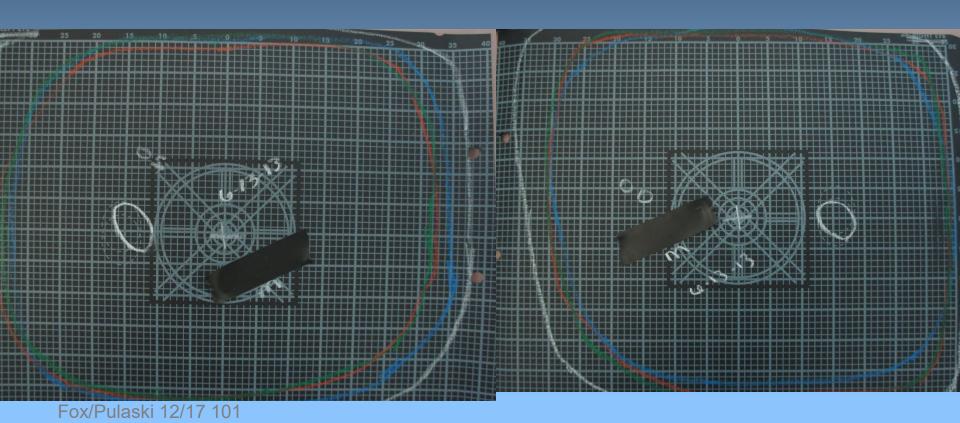
Right Eye



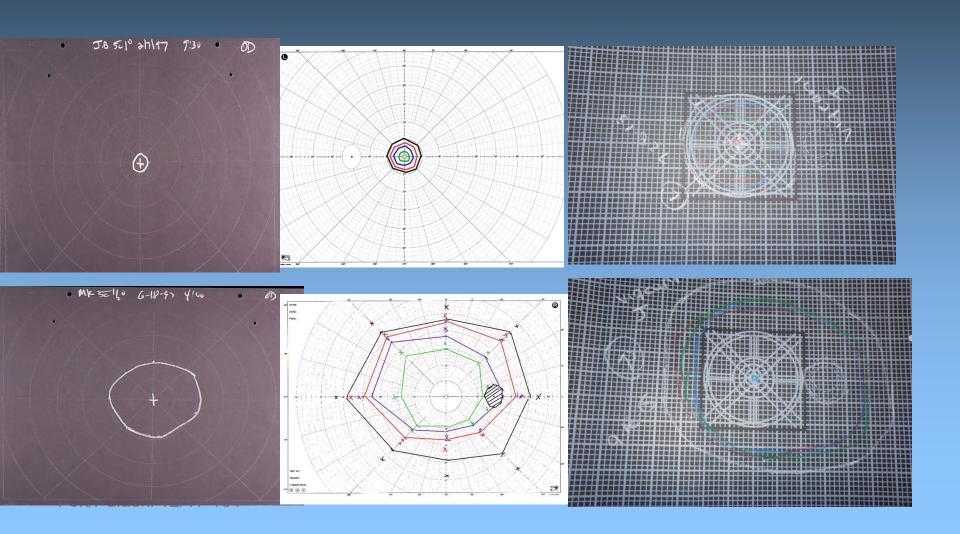
rics	Right Eye		Left Eye		Both Eye	
TO THE PARTY OF THE	Actual	Population	Actual	Population	Actual	Population Age 53-6
		Age 53-62		Age 53-62		
ooth Pursuit (%)	86.35	89.48	84,12	90.08	83.11	93.11
cade (%)	11.12	4.37	14.65	4.8	12.73	4.02
tion (%)	2.53	3.81	1.23	3.64	4.15	2.17
Target Velocity Error (dps)	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	Right Eye	light Eye	Left Eye		Both Eye	
Actual		Population		Population	1	Popula
	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	1.8
nt Smooth Pursuit (%)	37.70	14.82	17.73	10.89	11.35	15.4



The Kinetic Visual Field The Normal Visual Field

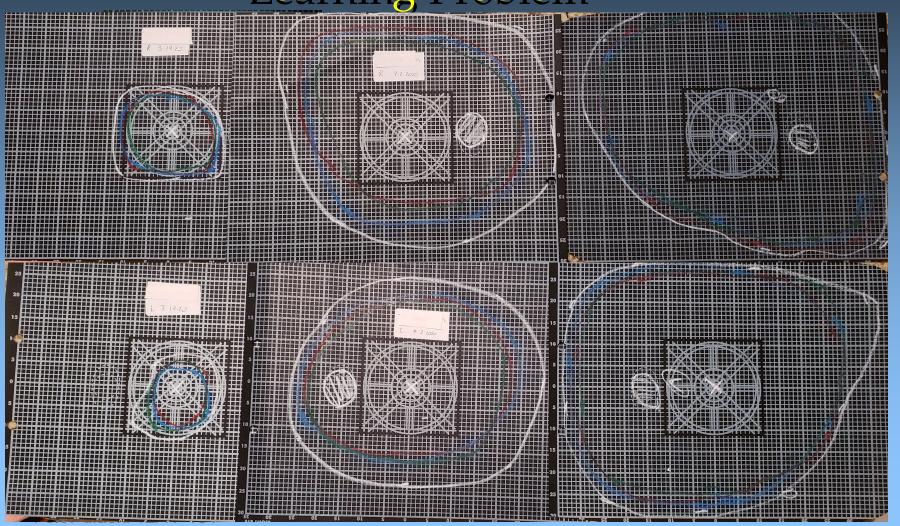


The Kinetic Visual Field The Abnormal Visual Field

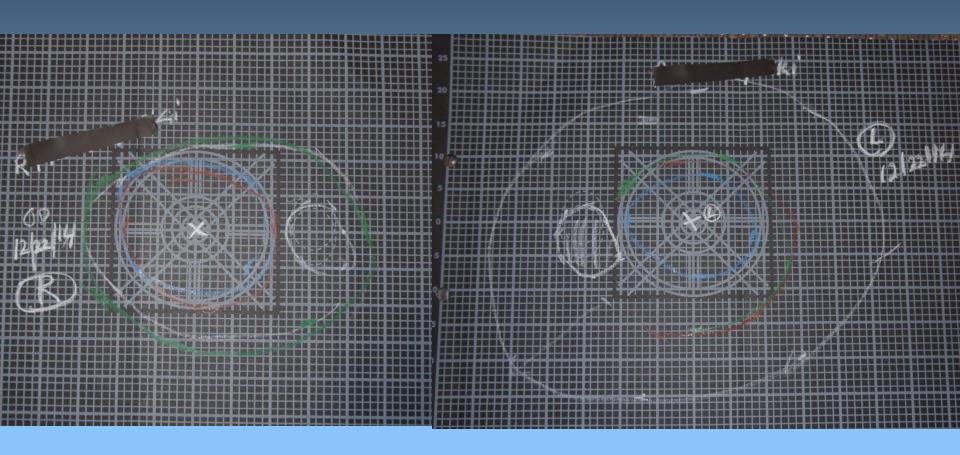


The Kinetic, Functional Field Abnormal Fields

Learning Problem

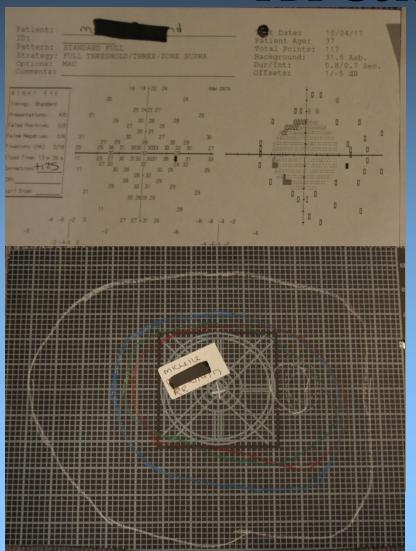


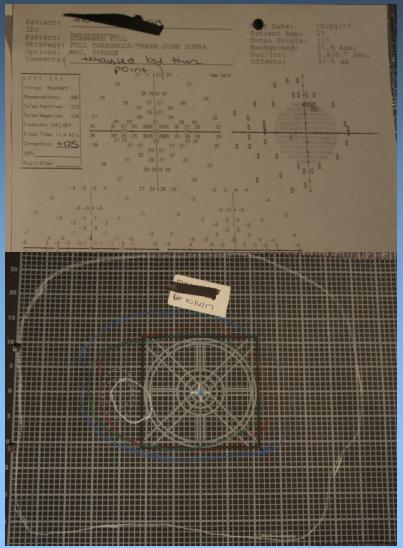
The Kinetic, Functional Field Abnormal Fields TBI Concussion



The Kinetic, Functional Field Abnormal Fields

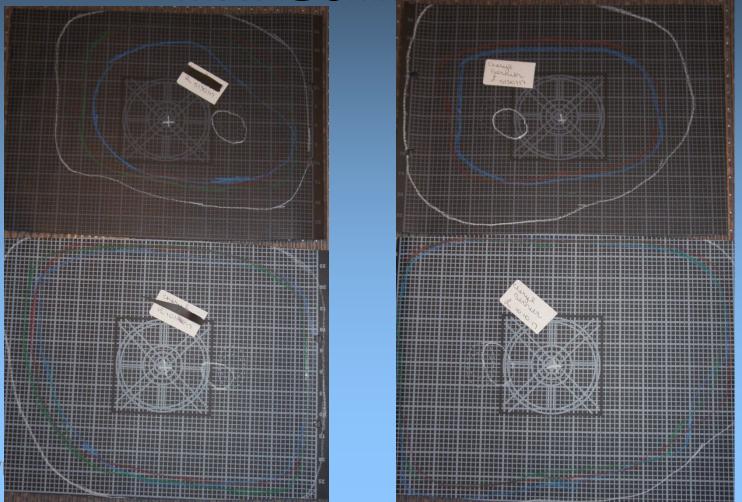
TBI Concussion





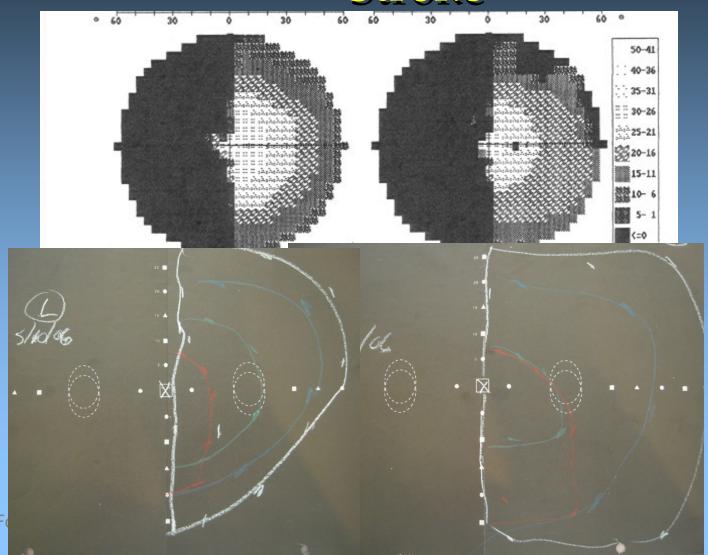
The Kinetic, Functional Field Abnormal Fields

TBI Concussion

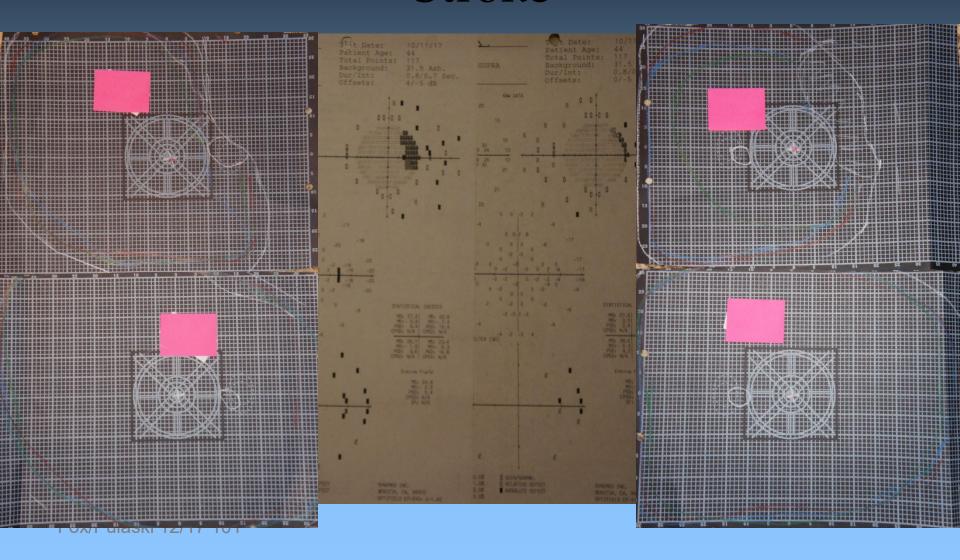


The Kinetic, Functional Field Abnormal Fields

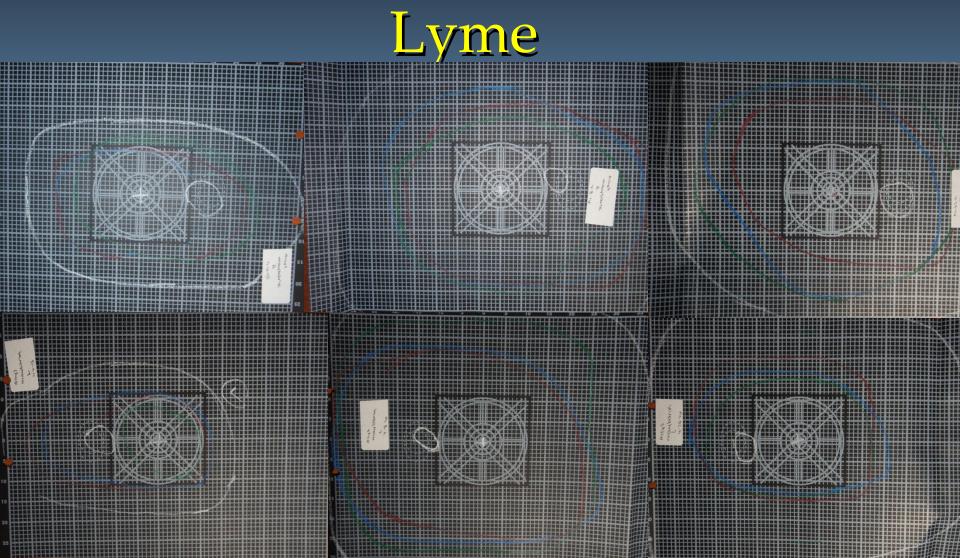
Stroke



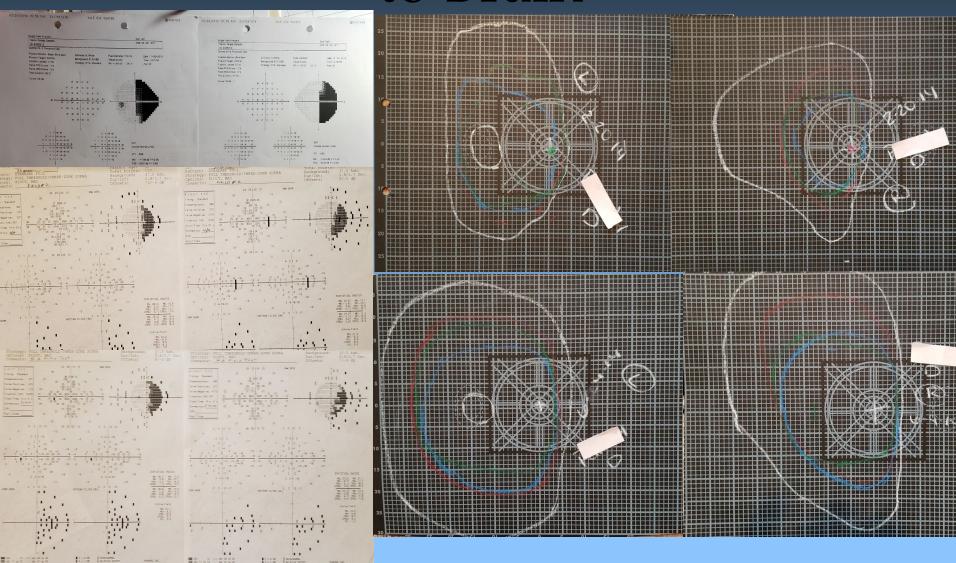
The Kinetic, Functional Field Abnormal Fields Stroke



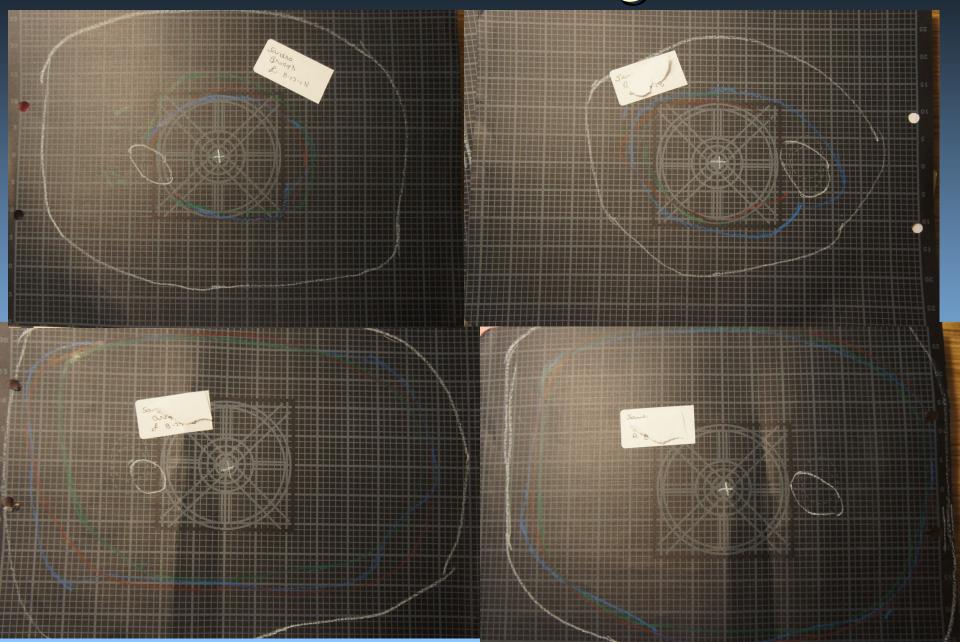
The Kinetic, Functional Field Abnormal Fields



DP, 42 yo, Metastatic Melanoma to Brain



Sandra B Bee Sting - 2020



Sandra B Bee Sting 2023

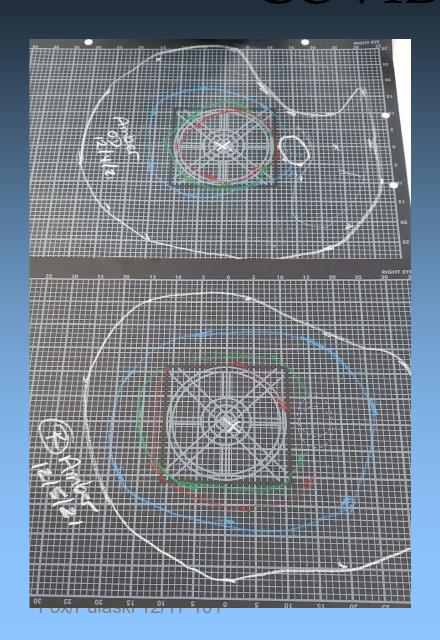


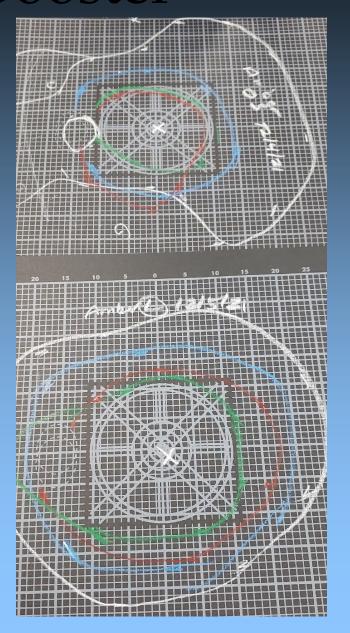
The Kinetic, Functional Field Abnormal Fields

Stress

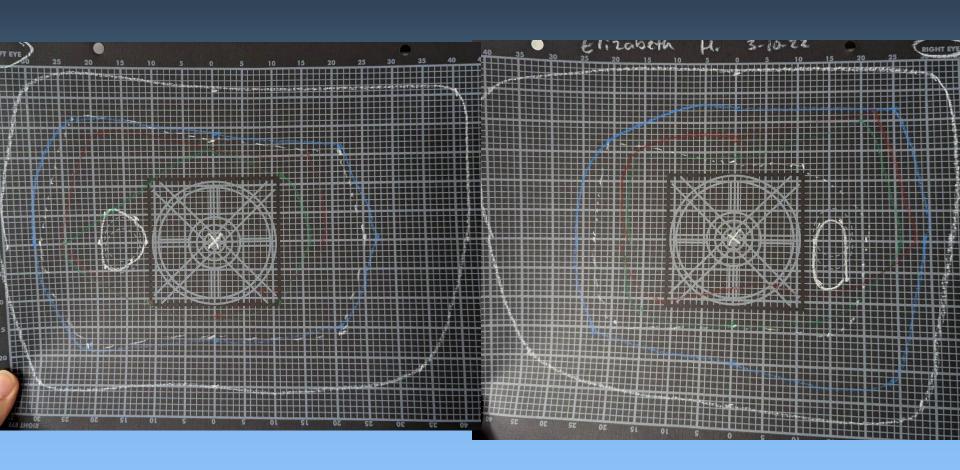


COVID Booster

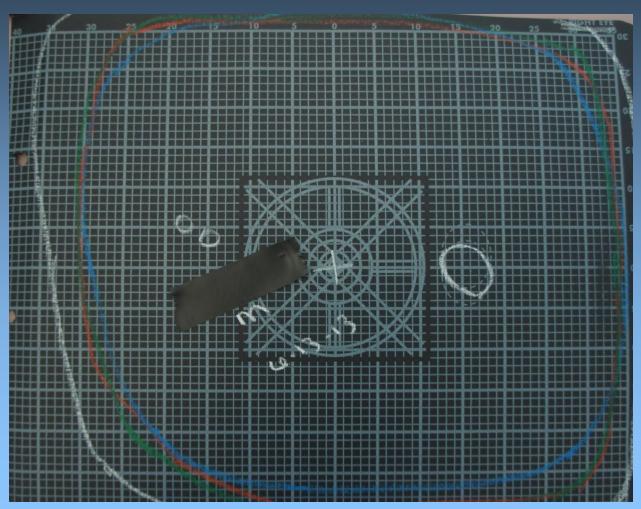




COVID Booster – 6 Days Post



The Kinetic Visual Field Interpretation

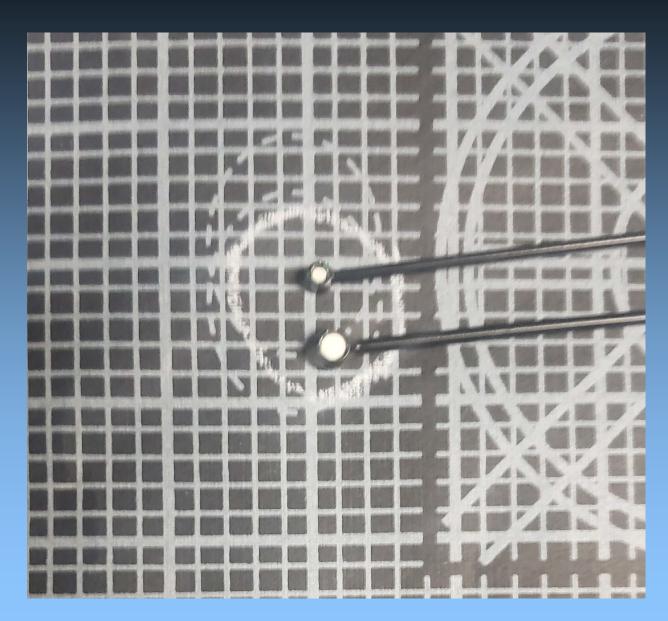


Fox/Pulaski 12/17 101 67

The Kinetic Visual Field Interpretation

Blind Spot

- A very important measurement Reveals the accuracy of projection!!
- Cannot be measured in severely compressed fields
- Different from glaucomatous field
- Can be 2-5x normal size
- Often associated with reading problems
- Often associated with brain trauma
- Helps determine when to stop therapy

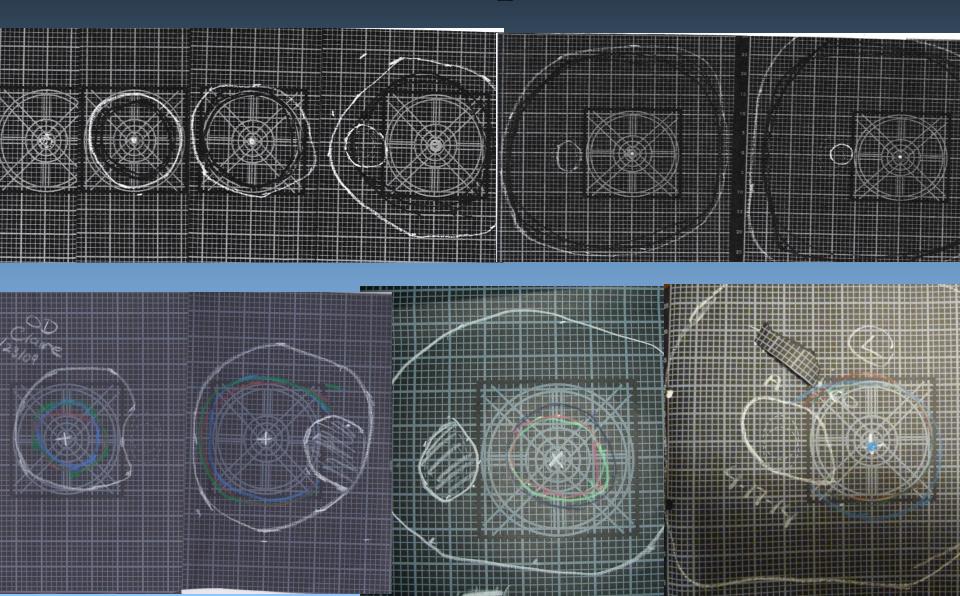


The Kinetic Visual Field Interpretation

Blind Spot Enlargement

- Optic Nerve
 - Edema, Atophy, Traumatic Neuropathy
- Cortical
 - Anomalous projection
 - Misplaced or Torqued

The Kinetic Visual Field Blind Spots



The Kinetic Functional Field

Questions and Confusion

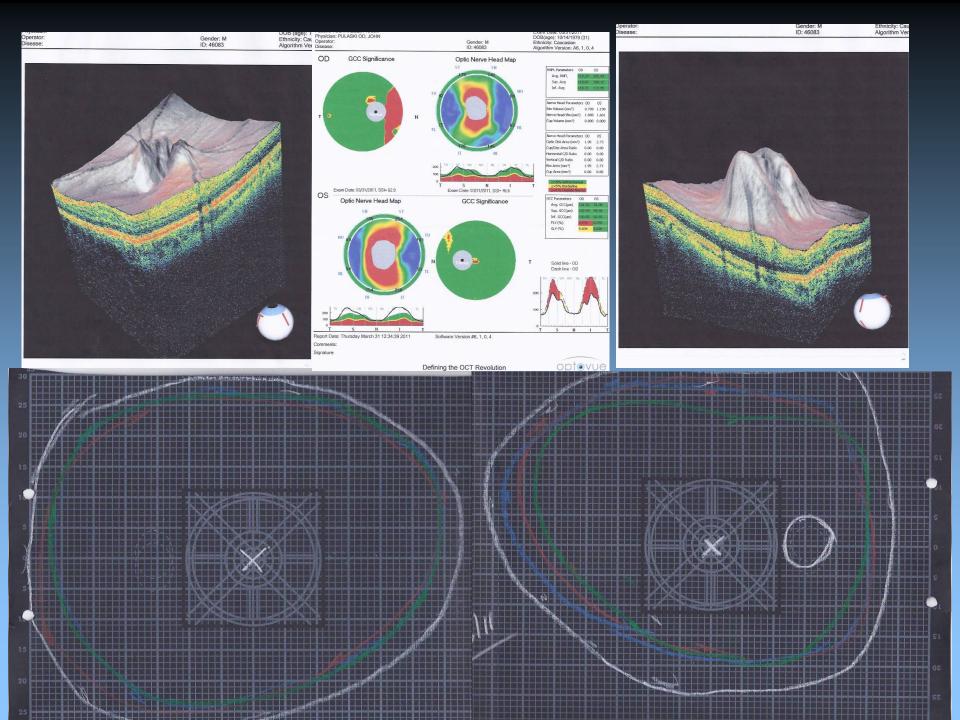
Blind spot enlargement. Is it edema

Small Functional Field. Is it Tunneling

Blind Spot Enlargement **Traditional**

Edema as the cause of functional Blind spot enlargement

- But why is it that we do not see it on retinal exam, do not detect it in a conventional field test and see no signs in OCT testing?
- How is it that a huge blind spot can change improve so quickly (in a matter of a few days) with our treatment protocol? Papilledema changes over many weeks.
- Why is it that the more constricted the field the larger the blind spot?
 Fox/Pulaski 12/17 101



Anatomically

- Retina is 32 mm from ora to ora.
- Blind spot is about 1.76mm horizontal x 1.92mm vertical or 5.5-6% of the total retina.
- Located 15.5° temporal from point of fixation and 1.5° below horizontal

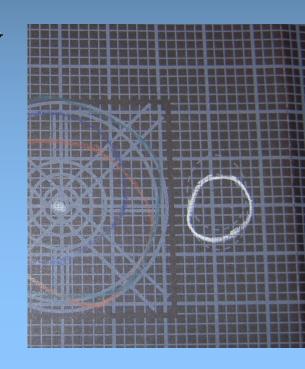


On Visual Field Plot

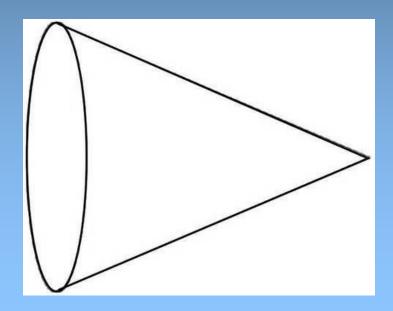
Vertical Oval with steep edges - 5.5° by 7.5° (20x28mm)

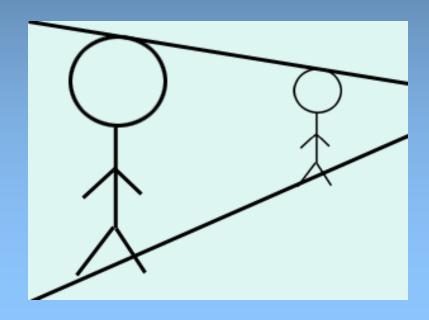
- (18mm x 25mm@ 20cm) or .71"x1"
- (96mm x 132mm @ 1m) or 3.8 x 5.2"
- (193mm x 263mm @ 2m) or 7.6" x 10 "

1° amblyopic zone around circumference of blind spot



It is conical - It's size is only limited by how far one can project their vision. Ideally it should be the same relative size in our field.





Fox/Pulaski 12/17 101

Consider the 5.5° x 7.5° or 5-6% size as you look through space. It is the size of a

Dime when looking at 8 inches

Basketball when looking at 8.5 feet

Car tire when looking at 25 feet









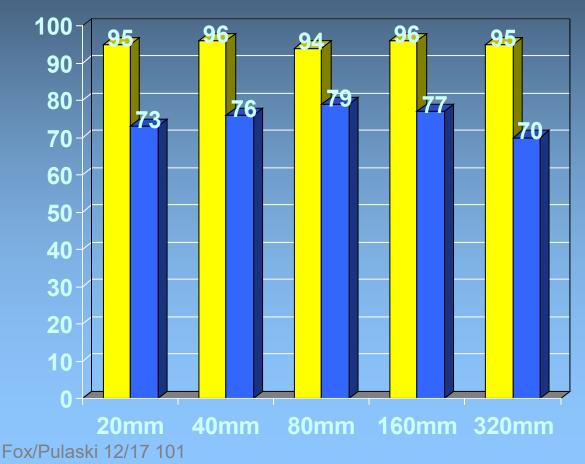
Blind Spot Enlargment

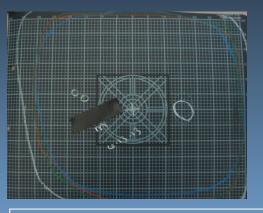
Could it related to the accuracy of The Projected Image

Projection Accuracy

8 Patients - Full fields and Normal Blind Spot 20 Patients - Compressed fields

(Pulaski 2010)



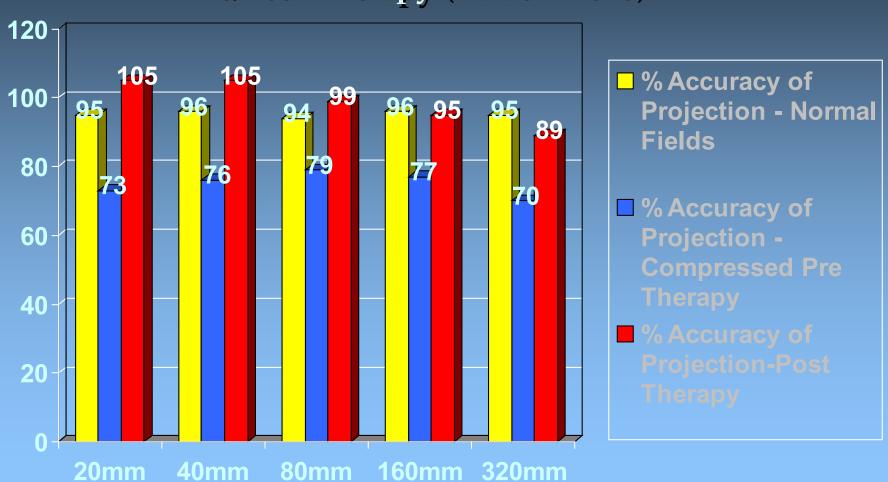


- % Accuracy of Projection - Normal Fields
- Projection
 Compressed Field



Projection Accuracy

Full Field Patients Vs Compressed Field Patients - Pre/Post Therapy (Pulaski 2010)



Field Size vs Projection Accuracy (Pulaski 2010)

Target Distance	20cm	40cm	80cm	160cm	320cm
Patients with Full Fields(8)					
• Accuracy(%)	95%	96%	94%	96%	95%
• Range(cm)	19-21	35-40	72-77	145-159	289-314
Patients with "T	<u>'unnel</u>	l Field	ls"(20)	– Pre	Treat
• Accuracy(%)	73 %	76%	7 9%	77%	7 0%
Range(cm)	11-18	23-39	52-72	74 -138	120-308
Patients with "Tunnel Fields"(20) – Post Treat					
• Accuracy(%)	105%	105%	99%	95%	89%
• Range(cm)	16-28	34-50	74-82	139-171	241-318

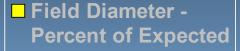
Change in Projection, Field, Blind Spot with Syntonic Light Therapy Case 1 Stephanie - OD



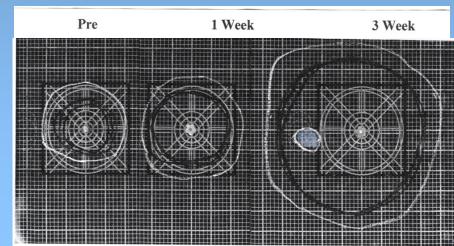
Change in Projection, Field, Blind Spot with Syntonic Light Therapy Case 1 Stephanie - OS



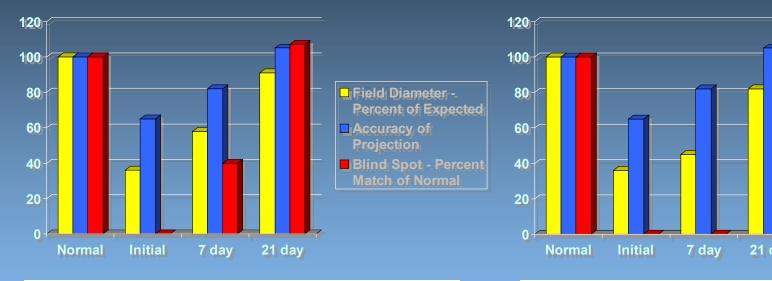
Blind spot not Fox/Pulaski 12/17 101 measurable



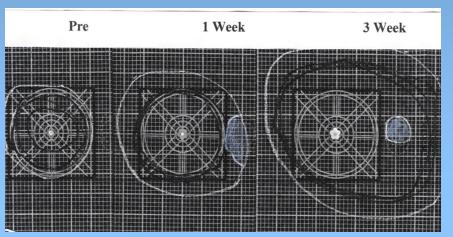
- Accuracy of Projection
- Blind Spot Percent
 Match of Normal

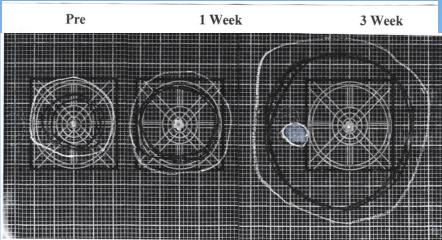


Change in Projection, Field, Blind Spot with **Syntonic Light Therapy** Case 1 Stephanie - OU









Vision as a Process of Projection Spatial Compression

- Consider Tangent screen at .5m 1m and 2m. Note that the further out one measures the less field that can be measured.
- Consider the Projection results.
- Consider Streff's statement that we are pulling distance in as we compress space.

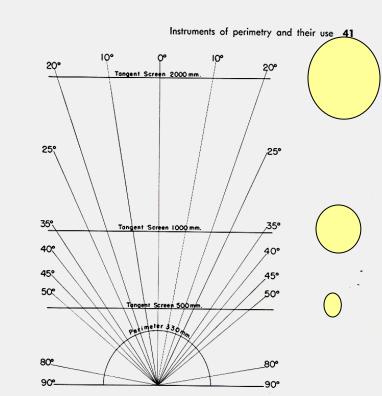


Fig. 9. Effect on size of visual field produced by varying distance between observer and tangent screen.

The Kinetic Visual Field Interpretation

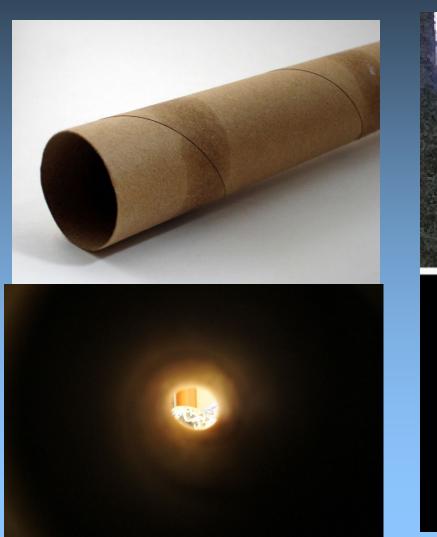
How can the patient see and function if their field is 5 degrees and inside the blind spot?

Why is the Confrontation and Static Field open?

Could it be related to the accuracy of Projection as well?

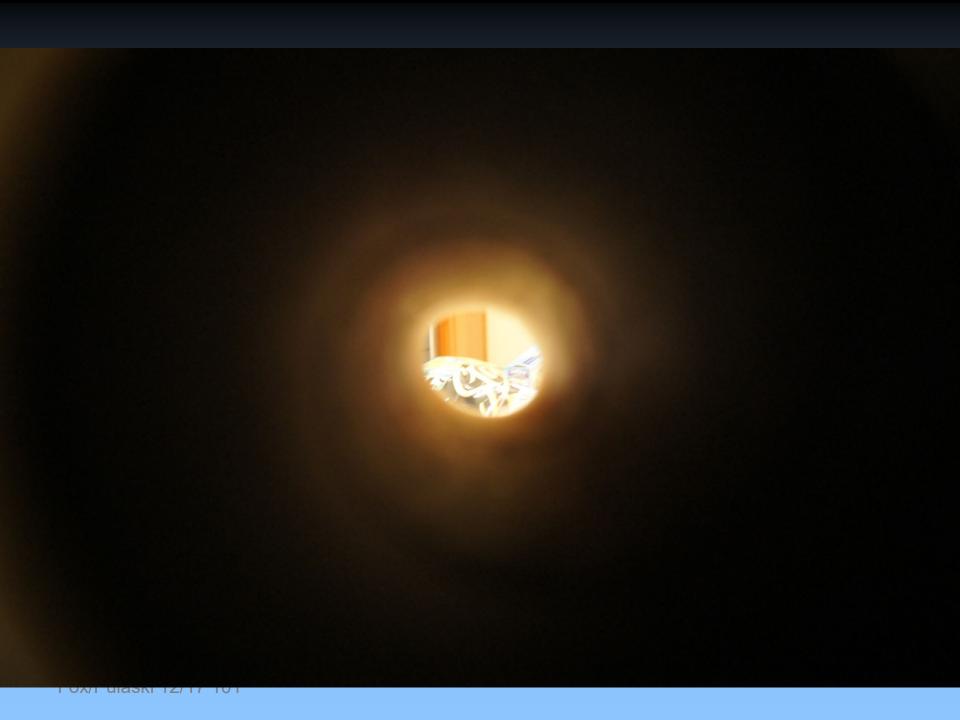
Learning from our patients.

Tunneled Field











Stormy's gone, of course. He died before the last Yankee clipper furled her silver sails. But stories about "that good old man" are told still wherever old sailors gather. Just where Old Stormalong was born isn't important. He first appeared on a wharf in Boston Harbor. The captain of the Lady of the Sea, the largest clipper ship in the China trade, was signing on men. Stormy gave his full name, Alfred Bullrod Stormalong. Without looking up from his ledger, the captain wrote down the initials, "A.B."

A. B. Stormalong stood five fathoms tall, which is the same as thirty feet. The captain glanced up at his new man. He whistled with surprise. "Phew!" he said. "There's an able-bodied seaman for you, boys."

Someone noticed that the giant's initials stood for just that. From that day to this sailors have tacked A. B. after their names. This shows that



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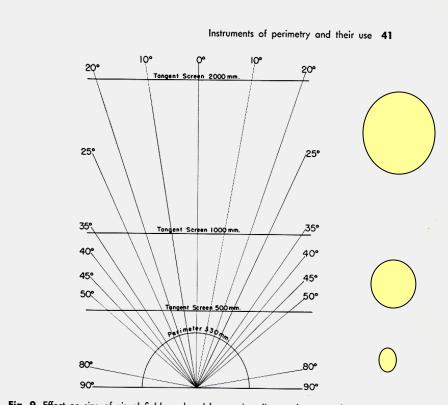






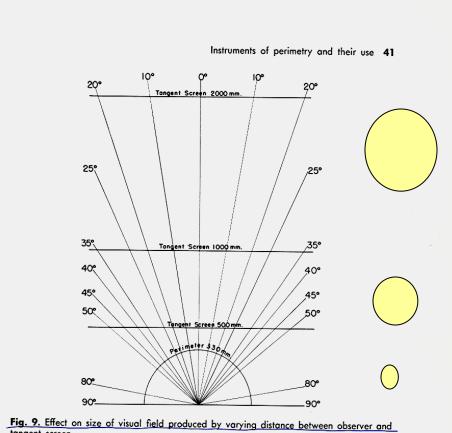
Vision as a Process of Projection Spatial Compression

- If the blind spot is enlarged because of inaccuracy of spatial compression so to is the visual field compressed or pulled in.
- One still sees everything but not in the proper place.
 Confrontation fields are normal.



Vision as a Process of Projection **Spatial Compression**

- Consider what we do to help our patients with learning problems/post trauma
- Increase font
- Increase spacing
- Less information per page
- Binasal Occlusion
- Tints and Low plus



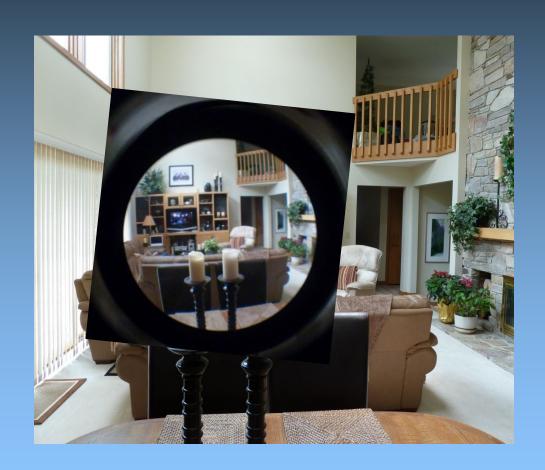
Why Functional Field Important Treatment Creates Spatial Expansion

Relates to

- Acuity
- NPC
- Eye Movements
- Pupil and Accommodation
- School work
- Writing
- BI, BD, Low+
- Sports
- TBI

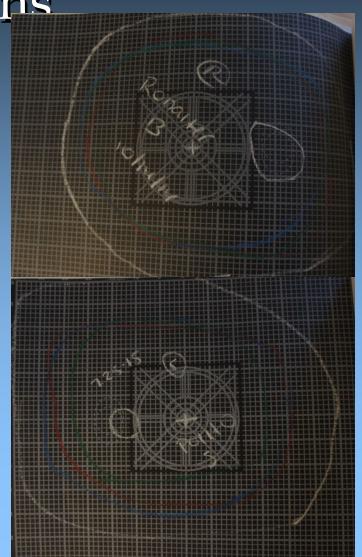
Streff

Are stuck at distance
Distance has become near



Vision as a Process of Projection Conclusions

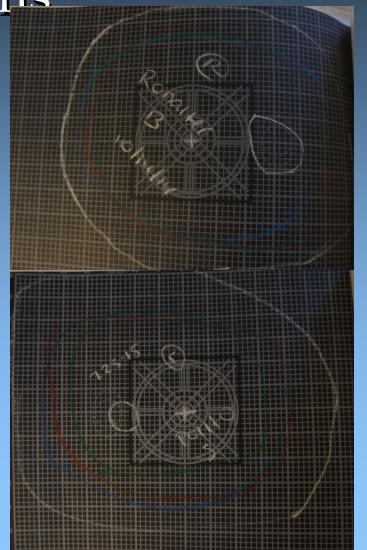
- A direct relation is found between Projection Accuracy and Field size.
- An indirect relation is found between Projection Accuracy and Blind spot size.
- Edema is not generally the cause of the blind spot enlargement.
- The small field is usually not a tunneled field.



Vision as a Process of Projection Conclusions

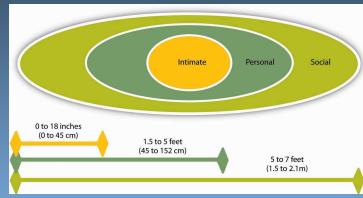
 The blind spot size is likely the most important indicator of spatial compression.

 In Syntonic treatment normalizing the blind spot and expanding the field is key to restore optimum visual functioning.



Vision as a Process of Projection Conclusions

 Spatial compression relates to all aspects and elements of visual perception.



- Projection is not an aspect of vision.
 It is vision (Shapiro)
- The compression includes all objects and space within the patient's usable field of vision.

Vision as a Process of Projection Conclusions

 Tunneling may be an acute form of compression. Streff syndrome, complete collapse.

0 to 18 inches (0 to 45 cm)

1.5 to 5 feet (45 to 152 cm)

5 to 7 feet (1.5 to 2.1m)

• The vitality of the ANS, the genetic make up and developmental experience are key components in accurate projection and therefore the ability of the human being to interact fully with space and the environment around them.

General Considerations

If peripheral fields are not within normal limits, VT results are greatly reduced

 If fields are normal in size but blind spot is enlarged, results will not hold unless the blind spot is normal size.

General Considerations

- How long do I treat?
 - Treat as long as field continues to open. There may come a plateau where the changes need to me integrated/assimilated.
- 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.

Thank out