Neuro Visual Rehabilitation Center
Pre-Therapy Summary Report

Patient: O V Age 8 Years 3 Months Exam Date: 11/10/2010

A) Patient's Eye, Visual, and Performance Symptoms:

Current Eye/Vision Symptoms:

1. Blurred Distant Vision
2. Blurred Near Vision

Performance (Efficiency / Comfort) Symptoms:

1. Trouble Remembering What Has Been Read.
2. Words Move, Jump, Swim, or Appear to Float on the Page When Reading.
3. Lose Place When Reading or Doing Close Work.
4. Have to Reread the Same Line of Words When Reading.
5. Feels That They Are Working Below Their Potential.

B) Initial Acceptable, Marginal or Inadequate Visual Skills Levels:

I. Analysis of Visual Performance Skills:

A. General Eye Health:

1. External and Internal Eye Health - Clear .... Acceptable
2. General Fine Eye Movements - Jerky .... Marginal

B. Eye Sight Acuity:

1. Right Eye Best Unaided Acuity at Distance 20 / 20 .... Acceptable
2. Left Eye Best Unaided Acuity at Distance 20 / 20 .... Acceptable
3. Right Eye Best Unaided Acuity at Near 20 / 20 .... Acceptable
4. Left Eye Best Unaided Acuity at Near 20 / 20 .... Acceptable

C. Alignment and Fixation:

1. Natural Alignment of Eyes at Distance - 3 Eso .... Inadequate
2. Natural Alignment of Eyes at Near - 6 Exo .... Acceptable
3. Natural Level Alignment of Eyes - Ortho .... Acceptable
4. Near Point of Alignment - 7" Break 10" Recovery .... Inadequate
5. Tracking Ability (Pursuits) - 89% .... Acceptable
6. Central Fixation Ability - Undershoot .... Inadequate
7. Fixation Accuracy - Outside .... Inadequate
8. Speed /Accuracy Changing Fixation - 0.82 Sec. at 99% .... Marginal

D. Fusion and Stamina:

1. Simultaneous Perception - Alternating Suppression .... Marginal
2. Fusional Stability at Distant - Unstable .... Marginal
3. Fusional Stability at Near - Unstable .... Marginal
4. Ability to Maintain Fusion at Distant - BI x/x .... Inadequate
   BO x/x/x .... Inadequate
5. Ability to Maintain Fusion at Near - BI x/19/14 .... Marginal
   BO x/29/20 .... Acceptable

E. Focusing Ranges and Speed:

1. Focusing Flexibility at Near - PRA -x.x .... Inadequate
   NRA +x.x .... Inadequate
2. Focusing Speed - 5 Cycles Per Minute (CPM) - 25% .... Inadequate
   PRA 0% Focusing Stimulated (-) 42%
   NRA 0% Focusing Relaxed (+) 44%
3. Coordination Between Eye Alignment and Focusing - x/1 .... Inadequate

II. Analysis of Visual Perceptual Skills:

A. Depth and Color Vision:

1. Depth Perception at Distant - 90% .... Acceptable
2. Depth Perception at Near - 90% .... Acceptable
3. Color Vision - 100% .... Acceptable

B. Perception and Cognition:

1. Visual Discrimination - 50%	Marginal
2. Visual Memory - 50%	Marginal
3. Visual Spatial Relations - 50%	Marginal
4. Visual Form Constancy - 25%	Inadequate
5. Visual Sequential Memory - 75%	Acceptable
6. Visual Figure Ground - 37%	Marginal
7. Visual Closure - 84%	Acceptable
8. Visual Percentile Rank - 55%	Marginal
9. Chronological / Perceptual Age Difference -1 Month	Marginal

Chronological Age 8 Years 3 Months. / Medium Perceptual Age 8 Years 2 Months.

C) Initial Visual Diagnosis: Four Major Medical Conditions

Primary (1) 378.83 Secondary (2) 368.32 (3) 378.90 (4) 368.30

1. Binocular Dysfunction	368.30
2. Convergence Insufficiency	378.83
3. Fusional Vergence Dysfunction	368.32
4. Oculomotor Dysfunction (Unspecified)	378.90

D) Initial Management and Treatment Goals:

1. Improve General Fine Eye Movements.
2. Improve Reduced Sight Acuity Conditions.
3. Improve Natural Alignment of Eyes at Distance and/or Near.
4. Increase Near Point of Alignment (Convergence).
5. Improve Eyes Tracking (Pursuits) Ability.
6. Improve Central Fixation Ability.
7. Improve Fixation Accuracy.
8. Increase Speed and Accuracy While Changing Fixation.
9. Eliminate Alternating Suppression of the Eyes.
10. Improve Fusional Stability at Distance.
11. Improve Fusional Stability at Near.
12. Increase Fusional Ranges (Both B.I. and B.O.) at Distance.
13. Increase Fusional Ranges (Both B.I. and B.O.) at Near.

14. Improve Flexibility to Increase Focus at Near (PRA - Minus Lens Power).
15. Improve Flexibility to Decrease Focus at Near (NRA - Plus Lens Power).
16. Increase Focusing Speed and Cycles Per Minute (CPM) Percentage.
17. Increase Accuracy of Increase (PRA) and Decrease (NRA) Focusing at Near.
18. Increase Coordination Between Eye Alignment and Focusing (AC/A Ratio).
19. Increase Visual Discrimination.
20. Increase Visual Memory.
21. Increase Visual Spatial Relations.
22. Increase Visual Form Constancy.
23. Increase Visual Figure Ground.
24. Increase Visual Perceptual Percentile Rank.
25. Increase Medium Visual Perceptual Age.

E) Pre-Therapy Management and Treatment Notations:

1. Case Type Summary:

Oculomotor Skills .... Inadequate
Binocular Vision .... Inadequate
Visual Perception .... Marginal

2. Major Case Problem: This Patient Has

Convergence Insufficiency (378.83)
Binocular Fusional Problem (368.32) .... Inadequate
Binocular Visual Dysfunction (368.30) .... Marginal
Oculomotor Skills (378.90) .... Marginal

To be successful you must build a solid balanced Monocular Skills foundation before good efficient Binocular Skills can be established. Work to develop and expand all Lens and Prism Power Ranges (Plus, Minus, Base In and Base Out) with amounts and speeds.

3. Special Case or Health Conditions: Patient's Non-Visual Score (TVPS) was 72 and the Visual Score (Berry) was 100, with the difference between the two being 28. The patient's Visual Perceptual Index is 86 and there is a Visual Perceptual Age Lag of 1 Month. Patient has a problem solving approach style which is Normal which means that you want to speed up their response time and have them work on the reaction time. Patient is not taking ADD or ADHD medication at the present time.

4. Therapy Case Approach should to be: Normal

5. Glasses Rx was Written and is to be used with Therapy Regiment.

6. Rx Prescription: O.D. +0.50 D Sphere O.S. +0.50 D Sphere

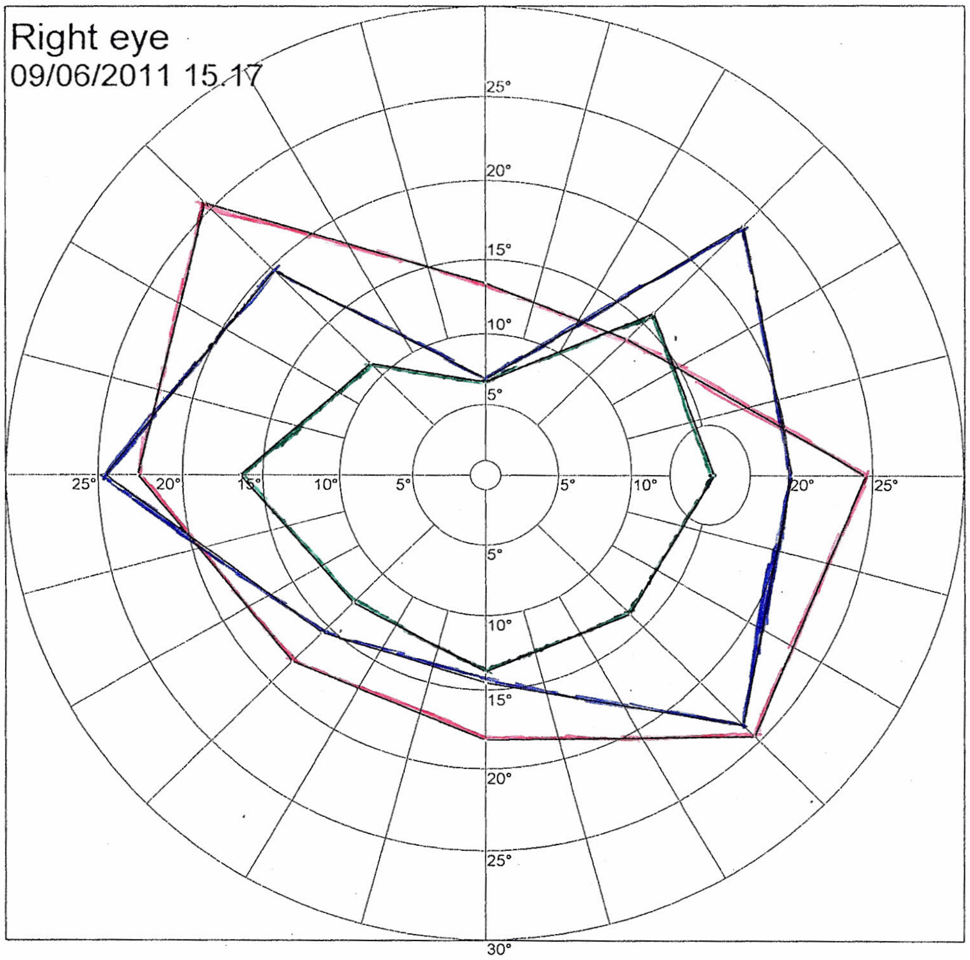
7. Prognosis for Case is: Good.

8. Case Disposition: Acceptable > Office

9. Approximate Therapy Time: Between 48 to 56 Session Hours.

10. Additional Case Considerations and/or Commits: VEP Showed Amplitude Problem with Left Eye.

O V


Right eye
09/06/2011 15.17
25°
20°
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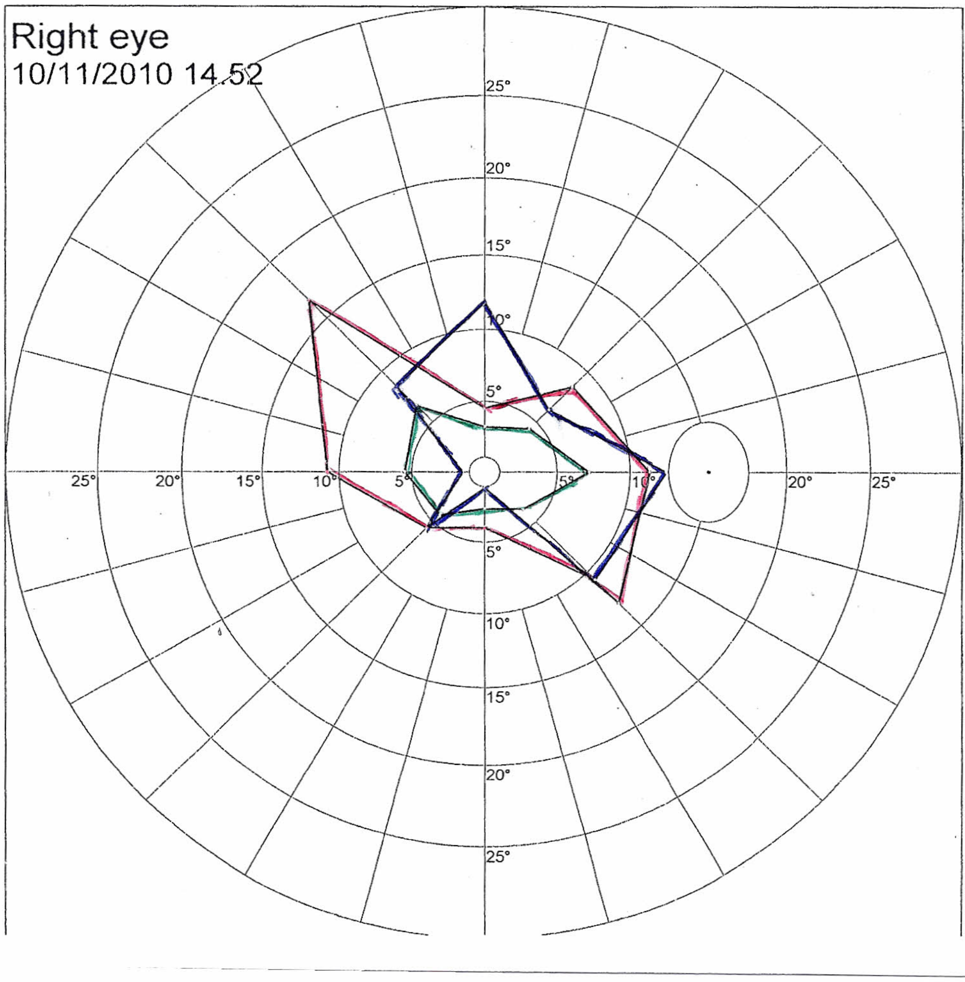
10°
5°
30°


Right eye
10/11/2010 14.52
25°
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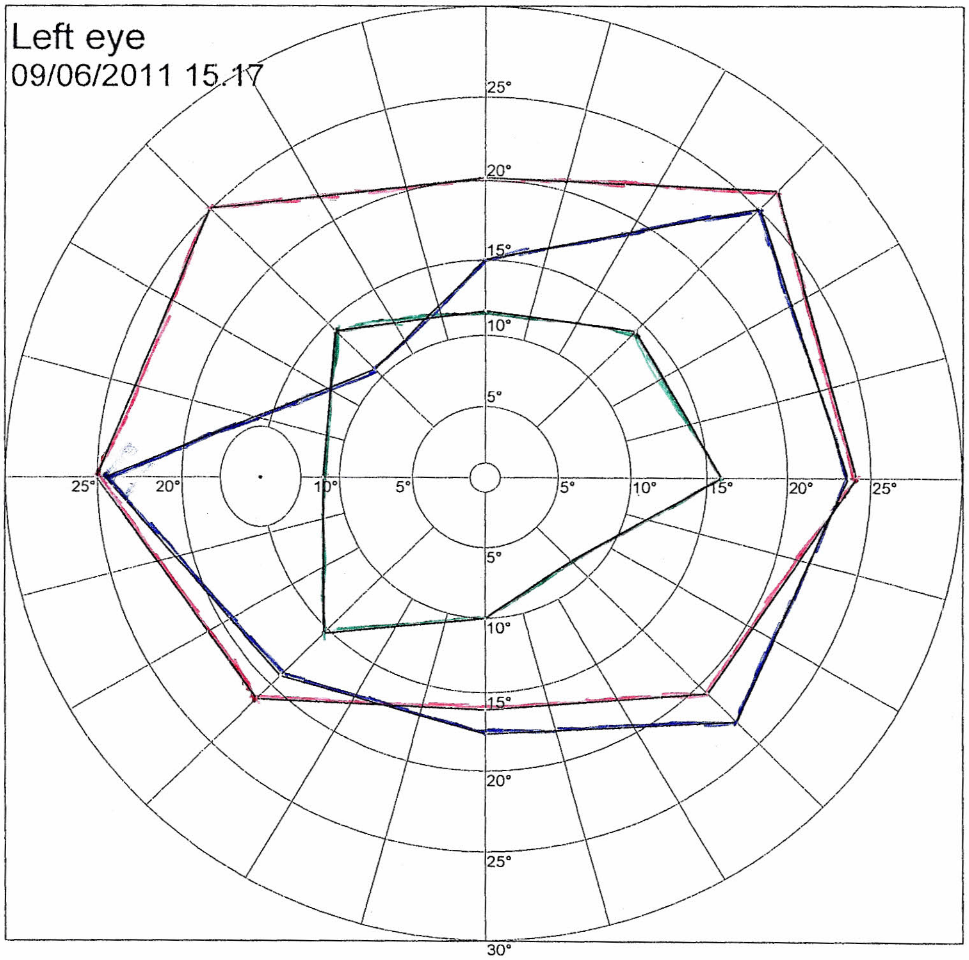
O V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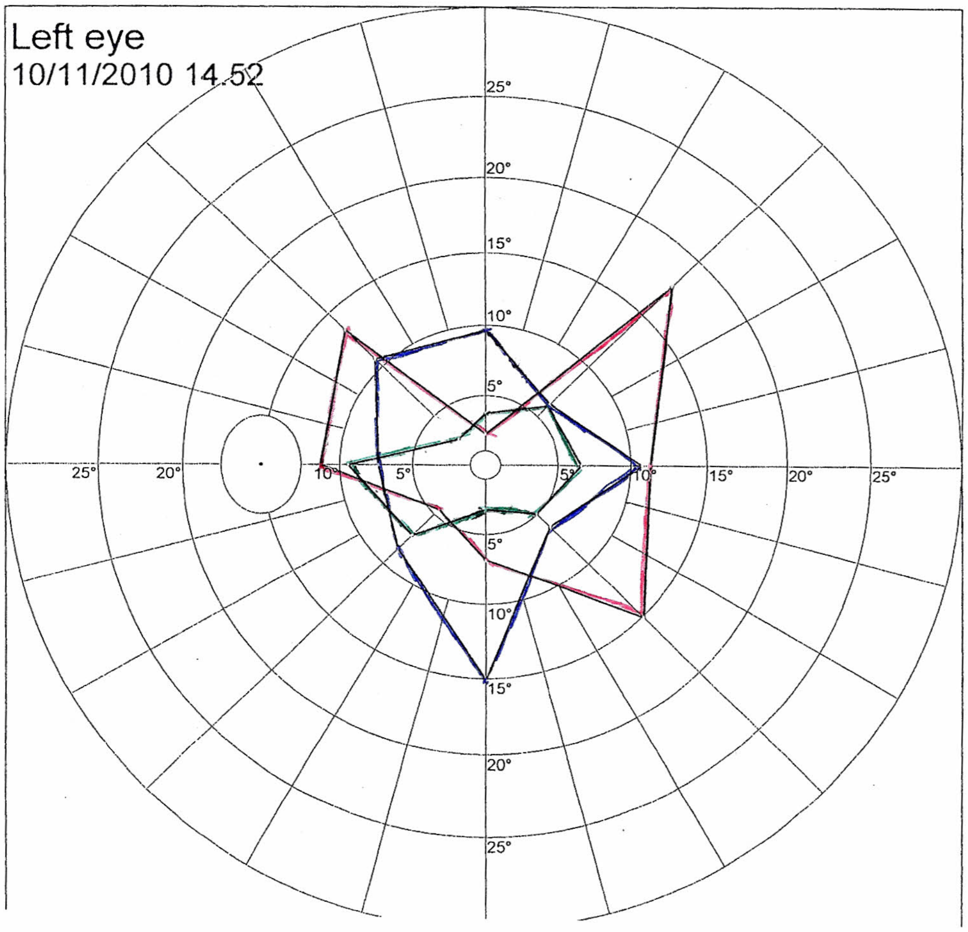
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KEYSTONE VISUAL SKILLS PROFILE

For Use with Keystone Ophthalmic Telebinocular

Doctor's Cumulative Profile Form No. 3A

Order No. 5506

Name O V [illegible] Age 8 Date 10-19-10 Wearing Glasses: Yes ____ No ✓

		Left Only	Right Only	Underconvergence Low Usable Vision	EXPECTED	Overconvergence High Usable Vision
Set at Far Point	Test 1 (DB-10A) Simultaneous Vision (Far Point)					
	Test 2 (DB-8C) Vertical Posture (Far Point)	only	only			
✓	Test 3 (DB-9) Lateral Posture (Far Point)	only	15 14 13 ... 3 2 1 Numbers Only	15 14 13 12 11	10½ 10 9 8½ 8	7 6 5 4 3 2 1
	Test 4 (DB-4K) Fusion (Far Point)	only	only	Four, widely separated; Four, near each other	Four, then three; Four, then three	Four, near each other; Four, widely separated
	Test 4½ (DB-1D) Usable Vision, ~~Both Eyes~~ (Far Point)			1 L 49%; 2 B 70%; 3 T 84%; 4 L 88%; 5 R 92%; 6 T 96%	7 L 98%; 8 B 100%	9 B 103%; 10 R 105%
✓	Test 5 (DB-3D) Usable Vision, Right Eye (Far Point)		No Dots Seen Unless Left Eye Is Occluded	1 T 49%; 2 [illegible] 70%; 3 [illegible] 84%; 4 [illegible] 88%; 5 B 92%; 6 B 96% 0/1	7 L 98%; 8 R 100%	9 T 103%; 10 R 105%
✓	Test 6 (DB-2D) Usable Vision, Left Eye (Far Point)	No Dots Seen Unless Right Eye Is Occluded		1 B 49%; 2 L 70%; 3 R 84%; 4 R 88%; 5 T 92%; 6 L 96% 0/1	7 [illegible] 98%; 8 L 100%	9 R 103%; 10 T 105%
	Test 7 (DB-6D) Stereopsis (Far Point)	only	only	1 2 3 4 5 6 7 8 9	10 11 12 0/1	
	Test 8 (DB-13A) Color Perception (Far Point)	32		79; 23	ALL CORRECT	
	Test 9 (DB-14A) Color Perception (Far Point)	63		92; 56	ALL CORRECT	
Move to Near Point	Test 10 (DB-9B) Lateral Posture (Near Point)	only	10 9 ... 4 3 2 Numbers Only	10 9 8 7 6½	6 5 4½	4 3 2
	Test 11 (DB-5K) Fusion (Near Point)	only	only	Four, widely separated; Four, near each other	Four, then three; Four, then three	Four, near each other; Four, widely separated

Test	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Test 12 (DB-15) ~~Usable Vision, Both Eyes~~ (Near Point)	D 10%	L 20%	D 30%	D 40%	L 50%	D 50%	D 60%	L 60%	D 70%	D 70%	G 80%	L 80%	L 90%	D 90%	L 100%	D 100%	L 102%	D 102%	G 103%	D 103%	D 105%	L 105%
Test 13 (DB-16) Usable Vision, Right Eye (Near Point)	D 10%	D 20%	L 30%	D 40%	[illegible] 50%	D 50%	D 60%	[illegible] 60%	[illegible] 70%	L 70%	D 80%	G 80%	L 90%	L 90%	D 100%	D 100%	G 102%	D 102%	L 103%	D 103%	D 105%	L 105%
Test 14 (DB-17) Usable Vision, Left Eye (Near Point)	L 10%	D 20%	D 30%	D 40%	L 50%	D 50%	L 60%	D 60%	D 70%	D 70%	[illegible] 80%	[illegible] 80%	[illegible] 90%	D 90%	L 100%	D 100%	L 102%	D 102%	L 103%	G 103%	D 105%	L 105%

1 0/1 0/1

NOTES:

POSSIBLE V.T. CANDIDATE
YES [ ] NO [ ]

~~CISS~~ 6 NPC 9/10

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Printed in Costa Rica

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KEYSTONE VISUAL SKILLS PROFILE

Doctor's Cumulative Profile Form No. 3A

Order No. 5506

For Use with Keystone Ophthalmic Telebinocular

Name OV Age 8 Date 6/13/2024 Wearing Glasses: Yes_____ No ✓

	Test	Left Only	Right Only	Underconvergence Low Usable Vision	EXPECTED	Overconvergence High Usable Vision
Set at Far Point	Test 1 (DB-10A) Simultaneous Vision (Far Point)					
	Test 2 (DB-8C) Vertical Posture (Far Point)	only	only	3 2 1 0 1 2 3 / 3 2 1 0 1 2 3	3 2 1 0 1 2 3	3 2 1 0 1 2 3 / 3 2 1 0 1 2 3
	Test 3 (DB-9) Lateral Posture (Far Point)	only	15·14·13 · · · 3·2·1 Numbers Only	15 14 13 12 11	10½ 10 9 8½	8 7 6 5 4 3 2 1
	Test 4 (DB-4K) Fusion (Far Point)	only	only	Four, widely separated / Four, near each other	Four then three / Four, then three	Four, near each other / Four, widely separated
	Test 4½ (DB-1D) Usable Vision, Both Eyes (Far Point)			1 L 49% · 2 B 70% · 3 T 84% · 4 L 88% · 5 R 92% · 6 T 96%	7 L 98% · 8 B 100%	9 B 103% · 10 R 105%
	Test 5 (DB-3D) Usable Vision, Right Eye (Far Point)		No Dots Seen Unless Left Eye Is Occluded	1 T 49% · 2 R 70% · 3 L 84% · 4 T 88% · 5 B 92% · 6 B 96%	7 L 98% · 8 R 100%	9 T 103% · 10 R 105%
	Test 6 (DB-2D) Usable Vision, Left Eye (Far Point)	No Dots Seen Unless Right Eye Is Occluded		1 B 49% · 2 L 70% · 3 R 84% · 4 R 88% · 5 T 92% · 6 L 96%	7 B 98% · 8 L 100%	9 R 103% · 10 T 105%
	Test 7 (DB-6D) Stereopsis (Far Point)	+ only	only ●	1 + · 2 ○ · 3 ✳ · 4 ○ · 5 □ · 6 □ · 7 ♡ · 8 + · 9 ✳	10 + · 11 ♡ · 12 ○	100%
	Test 8 (DB-13A) Color Perception (Far Point)	32		79 · 23	ALL CORRECT ✓	
	Test 9 (DB-14A) Color Perception (Far Point)	63		92 · 56	ALL CORRECT ✓	
Move to Near Point	Test 10 (DB-9B) Lateral Posture (Near Point)	only	10·9 · · · · 4·3·2 Numbers Only	10 9 8 7 6½	6 5½ 5 4½	4 3 2
	Test 11 (DB-5K) Fusion (Near Point)	only	only	Four, widely separated / Four, near each other	Four, then three / Four, then three	Four, near each other / Four, widely separated

Test	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Test 12 (DB-15) Usable Vision, Both Eyes (Near Point)	D 10%	L 20%	D 30%	D 40%	L 50%	D 50%	D 60%	L 60%	D 70%	D 70%	G 80%	L 80%	[illegible]	[illegible]	L 100%	D 100%	L 102%	D 102%	G 103%	D 103%	D 105%	L 105%
Test 13 (DB-16) Usable Vision, Right Eye (Near Point)	D 10%	D 20%	L 30%	D 40%	L 50%	D 50%	D 60%	L 60%	D 70%	L 70%	D 80%	G 80%	[illegible]	[illegible]	D 100%	D 100%	G 102%	D 102%	L 103%	D 103%	D 105%	L 105%
Test 14 (DB-17) Usable Vision, Left Eye (Near Point)	L 10%	D 20%	D 30%	D 40%	L 50%	D 50%	L 60%	D 60%	D 70%	D 70%	L 80%	L 80%	[illegible]	[illegible]	L 100%	D 100%	L 102%	D 102%	L 103%	G 103%	D 105%	L 105%

NOTES:

NMC - None   #7 OD Plano Dec 20/20
OS Plano. 20/20

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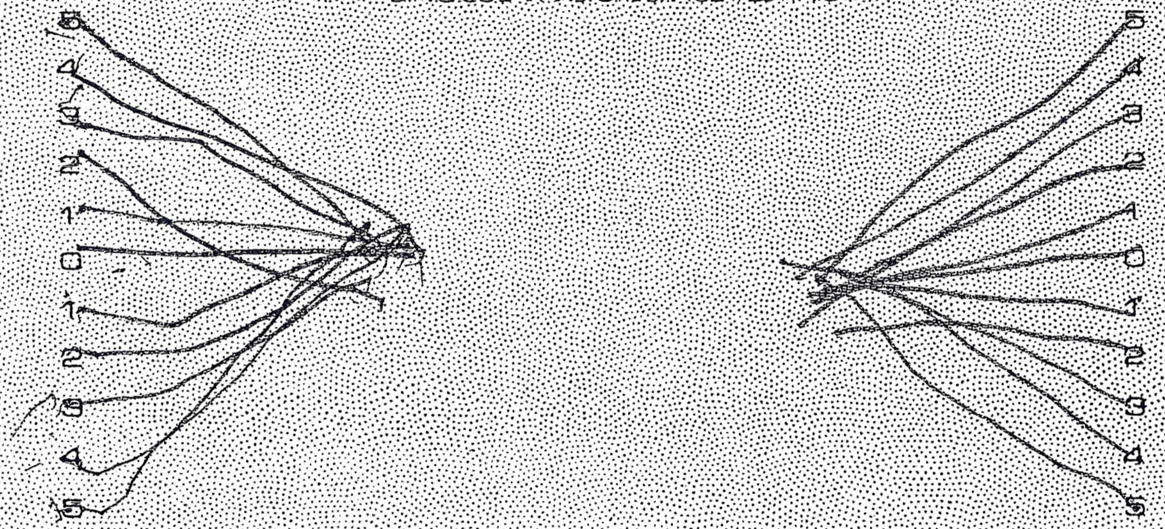
NAME OV DATE 11/10/10 COMMENTS Dec

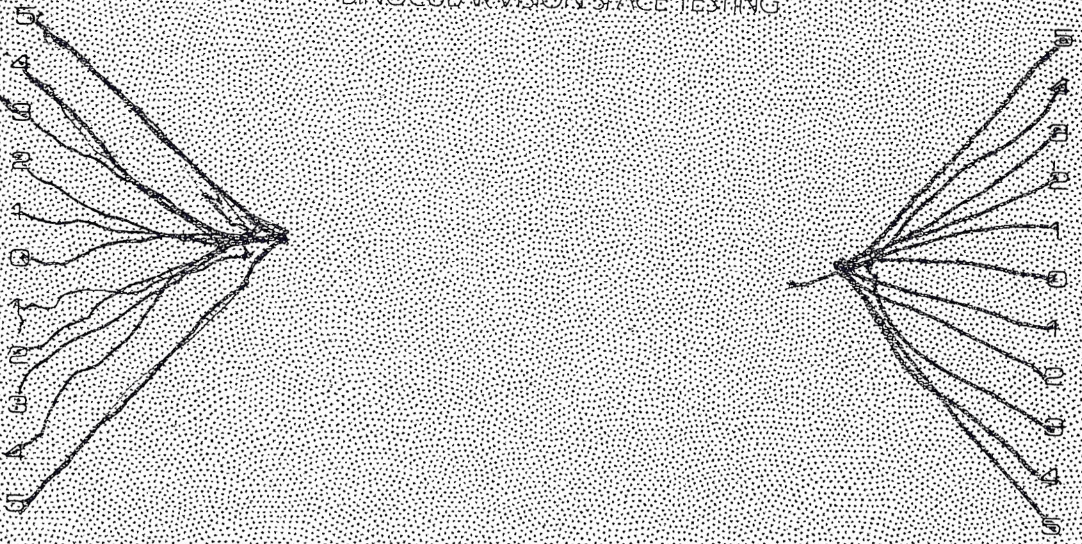
BINOCULAR VISION SPACE TESTING



Bernell Corp.
VS/1

NAME OV DATE 6/9/11 COMMENTS 48 retest

BINOCULAR VISION SPACE TESTING



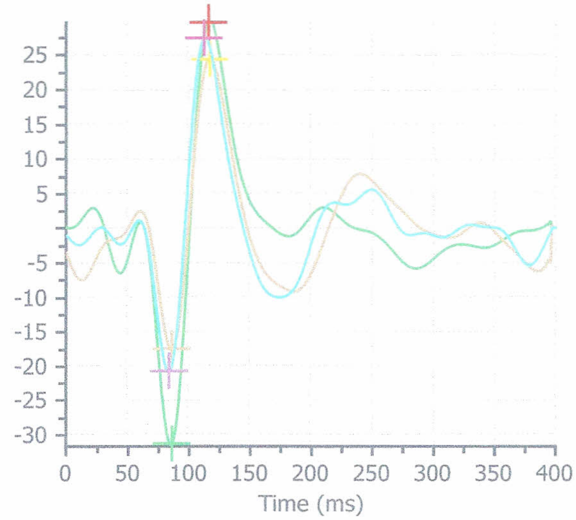
DIOPSYS® NOVA

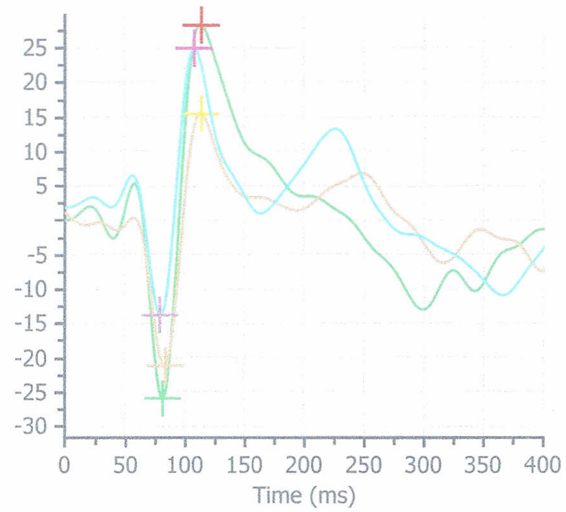
NEURO OPTIC VISION ASSESSMENT VEP SYSTEMS

Neuro Visual Rehabilitation Center- William E. Leadingham, O.D., FCOVD, PSC

Last Test Date: Nov 10, 2010

Patient: O V DOB: Aug 22, 2002





	T=30-P=64-OU-85%-C-11/10/10 1:56:37 PM Filtered	T=30-P=64-OS-85%-C-11/10/10 1:54:19 PM Filtered	T=30-P=64-OD-85%-C-11/10/10 1:52:42 PM Filtered	T=20-P=64 x 64-OU-85%-C-6/9/2011 4:25:29 PM	T=20-P=64 x 64-OS-85%-C-6/9/2011 4:24:39 PM	T=20-P=64 x 64-OD-85%-C-6/9/2011 4:23:19 PM
Left Cursor Lat	86.8 ms	86.8 ms	84.8 ms	81.9 ms	83.8 ms	80.0 ms
Amp	-31.33 uV	-17.59 uV	-20.83 uV	-25.93 uV	-21.31 uV	-13.87 uV
Right Cursor Lat	116.0 ms	118.0 ms	113.1 ms	114.1 ms	114.1 ms	108.2 ms
Amp	29.68 uV	24.48 uV	27.45 uV	28.31 uV	15.53 uV	24.91 uV
Delta Lat	29.3 ms	31.2 ms	28.3 ms	32.2 ms	30.2 ms	28.3 ms
Amp	61.01 uV	42.07 uV	48.28 uV	54.24 uV	36.84 uV	38.77 uV
Eye	OU	OS	OD	OU	OS	OD
CheckSize	16 x 16	16 x 16	16 x 16	64 x 64	64 x 64	64 x 64
Test Duration	30 sec	30 sec	30 sec	20 sec	20 sec	20 sec
Contrast	85%	85%	85%	85%	85%	85%
Pattern	Checkerboard	Checkerboard	Checkerboard	Checkerboard	Checkerboard	Checkerboard
Binasal	N	N	N	N	N	N
Correction	N	N	N	N	N	N
Filtered	Y	Y	Y	Y	Y	Y
SWVersion	1	1	1	2.11.1107	2.11.1107	2.11.1107

PRE anc OST VISUAL PERCEPTUAL SKILI PROFILE CHARTS

Patient's Name O V Age 8·10 Exam Date 6/9/11

VPS Profile Before - Solid , After - Dotted Therapy - 11/22/10 - 6/8/11

% Rank	VD	VM	VSR	VFC	VSM	VFG	VC	% Rank
99.9	19	19	19	19	19	19	19	99.9
99.6	18	18	18	18	18	18	18	99.6
99	17	17	17	17	17	17	17	99
98	16	16	16	16	16	16	16	98
95	15	15	15	15	15	15	15	95
91	14	14	14	14	14	14	14	91
84	13	13	13	13	13	13	13	84
75	12	12	12	12	12	12	12	75
63	11	11	11	11	11	11	11	63
50	10	10	10	10	10	10	10	50
37	9	9	9	9	9	9	9	37
25	8	8	8	8	8	8	8	25
16	7	7	7	7	7	7	7	16
9	6	6	6	6	6	6	6	9
5	5	5	5	5	5	5	5	5
2	4	4	4	4	4	4	4	2
1	3	3	3	3	3	3	3	1
0.4	2	2	2	2	2	2	2	0.4
0.1	1	1	1	1	1	1	1	0.1

Post 99 (7/2-11)

Pre 55 (8-2)

VD > Visual Discrimination - The ability to match or determine exact characteristics of two forms when one of the forms is among similar forms.

VM > Visual Memory - The ability to remember from immediate recall all of the characteristics of a given form, and being able to find this form from an array of similar forms.

VSR > Visual-Spatial Relations - The ability to determine, from among five forms of identical configuration, the one single form that is going in a different direction from the other forms.

VFC > Visual Form Constancy - The ability to see a form, and being able to find that form, even though the form may be smaller, larger, rotated, reversed, and/or hidden.

VSM > Visual Sequential Memory - The ability to remember for immediate recall a series of forms from among four separate series of forms.

VFG > Visual Figure-Ground - The ability to perceive a form visually, and to find this form hidden in a conglomerated ground of matter.

VC > Visual Closure - The ability to determine, from among four incomplete forms, the one that is the same as the completed form.