Remote treatment of intermittent central suppression improves quality of life measures

Eric S. Hussey, OD, FCVD
25 W Nora, Suite 101
Spokane, WA 99205
spacegoggle@comcast.net
Pre-Therapy

Length of "Binocular" Periods During ICS Cycle, Seconds

Post-Therapy

Pre-Therapy

COVD QOL Score - Full Checklist

1. Blurred vision at near/reading
2. Double vision
3. Headaches with near work
4. Words run together reading
5. Eyes burn/sting/water
6. Falls asleep reading
7. Vision worse end of day
8. Skip/repeat lines reading
9. Dizziness/nausea with reading
10. Head tilt/close eye reading
11. Avoid near work/reading
12. Miss/omit small words reading
13. Reading comprehension down
14. Holds reading too close
15. Short attention span reading
16. Difficulty finishing assignments

Post-Therapy

COVD QOL Score - 16 Reading Questions

1. Blurred vision at near/reading
2. Double vision
3. Headaches with near work
4. Words run together reading
5. Eyes burn/sting/water
6. Falls asleep reading
7. Vision worse end of day
8. Skip/repeat lines reading
9. Dizziness/nausea with reading
10. Head tilt/close eye reading
11. Avoid near work/reading
12. Miss/omit small words reading
13. Reading comprehension down
14. Holds reading too close
15. Short attention span reading
16. Difficulty finishing assignments

1.6 read comprehension down over time
2.36 poor sports performance
3.9 holds reading too close
4.58 trouble keeping attention on reading
5.42 trouble completing assignments on time
6.6 falls asleep reading
7.5 says "I can't"
8.7 vision worse end of day
9.8 avoids sports
10.80 poor handwriting/difficulty with hand tools
11.81 poor sports performance
12.90 poor memory
13.92 can't estimate distances
14.92 trouble completing assignments on time
15.93 avoids sports
16.93 poor memory
2/8/2010

**TABE Reading Test Grade Level**

- **JobCorps average age, 19.7 yrs**
- **5th grade level ~ 11 yrs. old**

**All the rest improved, but p>0.05**

- **1 Blur at near**
- **2 Double Vision**
- **5 Eyes burn/sting/water**
- **6 Falls asleep reading**
- **10 Tilts head/closes eye reading**
- **11 Difficulty copying from board**
- **12 Avoids near work/reading**
- **13 Omit words reading**
- **15 Misaligns digits/coloumns**
- **16 Reads comprehension down over time**
- **17 Poor sports performance**
- **21 Says “I can’t”**
- **24 Can’t estimate distances**
- **25 Clumsy/knocks things over on desk/table**
- **26 Difficulty with time management**
- **27 Difficulty with money concepts/make change**
- **28 Loses papers & belongings**
- **29 Car sickness, motion sickness**
- **30 Poor memory**

**Diagnosis**

**Post-Therapy**

**Pre-Therapy**

**Comparison**
Cortical Inhibition

Control is all in the "off" portion - active inhibition

Internal Gating

Control is in some internal timing, as indicated in a cycle of predetermined length.
Increase in "Binocular" Periods, Seconds

Decrease in Suppression Periods, Seconds

On
Off

Changes are in "On" portion of cycle - increasing "Binocular" Periods

 Makes sense - a motion stimulus, applied to neurology, should make motion synapses more robust, increasing binocular periods which will decrease suppression periods.