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- Identify visual information processing (VIP) difficulties.
- Use a specific battery of tests to evaluate VIP skills.
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11/9/2013

How to identify visual processing problems

Physician

How to identify visual processing problems

Psychologist

WISC IV

Developmental History

Optometric evaluation

Disparity - higher verbal/lower performance
Coding & search symbols low
Processing speed
Meet psychologist

DEVELOPMENTAL/SENSORY HISTORY FORM

Patient's Name: __________________________DOB:___________   Date:___________

CHILD'S BIRTH, INFANCY, TODDLER YEARS:

Yes
No

Brief Explanation

1)  Premature

2)  Full term

3)  Required forceps

4)  Had any birth injuries

5)  Any major birth complications

6)  Had insufficient oxygen

7)  Any other problems after birth

8)  Did your child crawl

Age:______________

9)  What age did child walk

Age:______________

10)  What age was child toilet trained

Age:______________

11)  When did your child begin putting clothes on

Age:______________

12)  When did your child begin buttoning clothes

Age:______________

13)  When did child begin tying shoes

Age:______________

GENERAL INFORMATION:

Which hand does your child prefer to use? _____________________________________

________________________________________________________________________

Was handedness ever changed:  If so explain  ___________________________________

________________________________________________________________________

What are your child's special interests?  _______________________________________

________________________________________________________________________

Give a brief thumbnail sketch of your child's personality:  _____________________

________________________________________________________________________

Has your child had a neurological, psychological or educational evaluation performed?  If

so by whom and the results: _________________________________________________

________________________________________________________________________
VIP “Symptoms”

- Avoids difficulty puzzles
- Auditory
- Spells phonetics

- Poor reading comprehension
- Memorizing/historian
- Does well in practice, not performance

Vision Evaluation

- Ocular health
- VA
- Refractive
- Binocular
- Oculomotor
- Accommodative

Visual Information
Processing Evaluation

11 Points Overview

Beery Visual Motor Integration (VMI)

Visual Information Processing Evaluation 1

Visual Information Processing Evaluation 2

Test of Visual Perceptual – Non-motor
Test of Auditory Analysis

Visual Information Processing Evaluation 7

Referral Criteria

Auditory/visual Integration

Visual Information Processing Evaluation 8

Sequencing Developmental readiness

Directionality/laterality

Visual Information Processing Evaluation 9

VO Star/cheiroscope

Visual Information Processing Evaluation 10

Sensory Motor screening

Visual Information Processing Evaluation 11

• Jumping
• Hopping
• Skipping
• Tactile
• Vestibular
• Proprioception
• Postural security
• Body Scheme

Now What?
Now What?

- Relevance of scores
- Relate to patient concern
- Prioritize treatments
- Review testing from others

Now What?

Develop a plan

- Vision therapy
- Lenses/prisms
- Referrals

Case Presentation

Referrals

- Medical
  - Allergist
  - Neuro
  - Ped/Intern

- Education
  - Tutor
  - Psych-education

- Therapist
  - Speech/lang.
  - OT/PT
  - Counselor

Case Presentation

Pearls

- VMI difficulties – relate it to writing, sports…
- Discuss “Brain” – it’s the buzz word!
- RELATE findings to parent’s concerns
- NO SELLING OF VT!
- People buy what they WANT… Not what they NEED

Case #1- VIP
S.G. Diagnosis?

S.G. Diagnosis

Refactive

Motor

VIP

Bino/ accom

Oculo- motor

Auditory processing

VMI

Bilateral integration

VIP

Oculomotor

DEM: Lost

L/R confusion

TAAS: kdg.

Getman V. Recall: Kdg

TVPS: 25%-91% scatter

VMI: 47%

TDS: 1st grade words

Ocular Health – WNL

RE - +.50D OU

Ocular motor- full/smooth

Binocular – 2PD exo

NPC – 1/3 inches

Accommodation- pass +/- 2.00D

Fusion ranges - WNL

VIP

1st grade

male

History

• Referred by GDC
• Disparities in psycho-
educational testing
• IQ: V112/P111;
• Difficulty fine & gross
motor skills
• Doing “ok” in school
• Avoids writing tasks

VIP

1st grade

male

Evaluation

• Ocular Health – WNL
• RE - +.50D OU
• Ocular motor-
full/smooth
• Binocular – 2PD exo
near
• NPC – 1/3 inches
• Accommodation- pass
+/- 2.00D
• Fusion ranges - WNL
S.G. Treatment

- Lenses: None
- Referral: Audiologist (later)
- VT: 32 sessions

S.G
1st grade
male
VIP
POST VT

- TVPS: 63%-99% (37%-91)
- VMI: 58% (47%)
- Getman: 1st grade (kdg)
- TDS: 3rd grade words (1st)

S.G
1st grade
male
VIP
POST VT

- Piaget l/r awareness: pass
- TAAS: 1st grade words
- DEM 65% (lost)
- Bilateral integration: improved

IQ
V 119(112)/ P 127 (111)
Full 125(112)

SMARTER?

S.G
1st grade
male
VIP
POST VT

- Coordination much improved
- Happy with sports
- Voracious reader!
- School wants to skip a grade
- Still auditory processing problem

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