Assessing Visual Perception
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15 PUBLICATIONS  14 CITATIONS

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62 PUBLICATIONS  741 CITATIONS

Some of the authors of this publication are also working on these related projects:

The Back of the Brain (BoB) project View project

Developmental prosopagnosia View project
Assessing Visual Perception: Towards a Systematic Approach

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Background
Visual perceptual deficits are common in neurological disorders:
- seen in around 30% of patients with acquired brain injury.
- also common in neurodegenerative disorders.
Can have significant negative effects on:
- activities of daily living, mental health and quality of life.
- general rehabilitation.
- performance on all neuropsychological tests using visual stimuli.
Visual perception should be assessed following brain injury. The literature does not provide a simple overview of tests available.

Aim
Create a framework that facilitates structured and systematic assessment of visual perceptual functions.

Method
- Visual perceptual tests and test batteries are identified in
  the literature.
- Tests and batteries are categorised according to their visual sub-processes.
- A simple visual framework is developed.

Conclusion
Assessment should also be carried out in the absence of visual perceptual complaints (insight often limited). Existing test batteries suffer from limitations:
- lack of norms
- too time-consuming
- only selected aspects of visual perception assessed
- include tests of functions that are theoretically relevant but that have limited clinical value

By combining individual sub-tests from different batteries, in-depth assessment is possible, but:
- There is a need for a test battery enabling structured assessment of clinically relevant aspects of visual perception.

TEST BATTERIES

WORDS
- Papla 29: Reading words
- Papla 35: Reading regular vs irregular words
- EC501-R: Reading digits
- Reading test

OBJECTS
- Picture naming tasks (WAB 4.A., Boston Naming)
- Naming familiar faces

FACES
- Naming familiar faces
- Naming famous faces

Simple Shape Perception
- Line orientation: Benton Line Orientation Test
- Naming simple shapes
- Form discrimination: CORVIST 2

Size Discrimination
- CORVIST 3
- BORB 2
- BORB 3

Copying Simple Figures
- CORVIST 4

Shape Integration
- Distinguish overlapping figures: Propellerwheel
- Integrating fragmented stimuli
- Fragmented digits/letters: VOSP 1, CORVIST 7
- Shape detection: VOSP 0, CORVIST 4

Test Batteries

• Colour perception
• Spatial representations
• Visual-motor transormations
• Structural representations
• Semantic representations
• Ventral pathway: What?

Dorsal pathway: Where? How?

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