Assessing Visual Perception
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15 PUBLICATIONS 14 CITATIONS

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42 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.

WORDS
- Papla 29: Reading words
- Papla 35: Reading regular vs irregular words
- EC 301: R: Reading digits
- Reading test

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

FACES
- Warrington Recognition Memory Test for Words
- Object vs non-object: BORB 10
- Cambridge Face Recognition Memory Test for Faces

LISTENING COMPREHENSION
- Word matching tests
- Matching: Benton Face Recognition Task

VISUAL PERCEPTION
- Distinguish overlapping figures: SHAPE INTEGRATION
- Form discrimination: CORVIST 2

VISUAL ACUITY
- Humphrey (50°)
- Colour discrimination: CORVIST 5

Shape perception
- Colour perception
- Integration and segmentation

TEST BATTERIES
- Colour perception
- Shape perception
- Transformation and spatial representations
- Structural representations
- Lexical representations

Dorsal pathway: Where? How?
Visual-motor transformations

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