Assessing Visual Perception
Robotham, Ro Julia; Starrfelt, Randi

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Assessing Visual Perception: Towards a Systematic Approach

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Rigshospitalet Copenhagen University Hospital
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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
- Pajla 29: Reading words
- Pajla 35: Reading regular vs irregular words
- EC201-R: Reading digits
- Reading test

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

FACES
- Naming famous faces

ROAD - COURT
- Word matching tasks

SIMPLE SHAPE PERCEPTION
- Line orientation: Benton Line Orientation Test
- Naming simple shapes
- Form discrimination: CORVIST 2

SIZE DISCRIMINATION
- CORVIST 3
- BORB 3

COPYING SIMPLE FIGURES
- CORVIST 4

SHAPE INTEGRATION
- Distinguish overlapping figures: Propeller wheel
- Integrating fragmented stimuli:
  - Fragmented digits/letters: VOSP 1, CORVIST 7
  - Shape detection: VOSP 0, CORVIST 4

TEST BATTERIES
- Colour perception
- Shape perception
- Integration
- Segmentation
- Structural representations
- Semantic representations
- Visual-motor transformations
- Dorsal pathway: Where? How?
- Ventral pathway: What?