









# Embracing technology: end-users' perspectives on digital neuropsychological assessment in cognitive rehabilitation

C.L. van de Wouw, M. Steenhuis. H. Huygelier, J.M.A Visser-Meily, C. van de Moosdijk, K. Meitinger, T.C.W. Nijboer

## **Introduction:**

Understanding the perspectives of end-users is crucial for the development & implementation of technology in clinical practice for cognitive assessment

- 1. Elucidate the end-users' **definition** of d-NPA
- 2. Explore their perspectives on the **benefits** & **drawbacks** of d-NPA
- 3. Explore potential differences in perspectives among different disciplines in the field of cognitive rehabilitation

## **Methods:**

## Participants (n = 345)

- Convenience sampling
- Data collected: May June 2021

## **Procedure & Survey Design**

- Dutch online survey
- 18 questions (open-ended questions = 13)

### **Data Analysis**

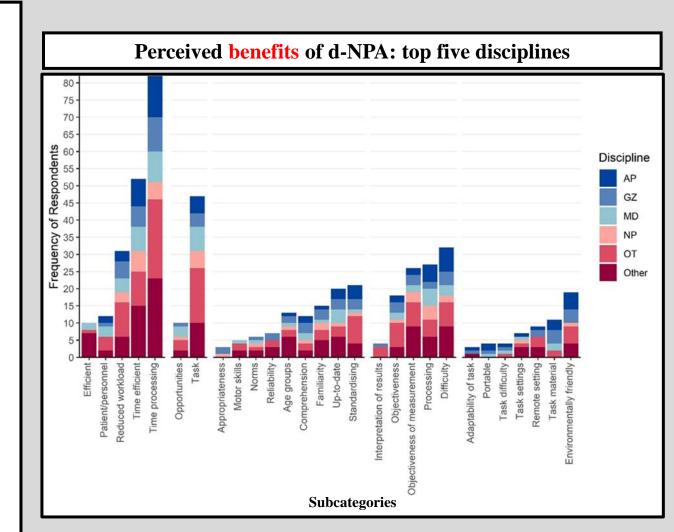
Sample description at group level

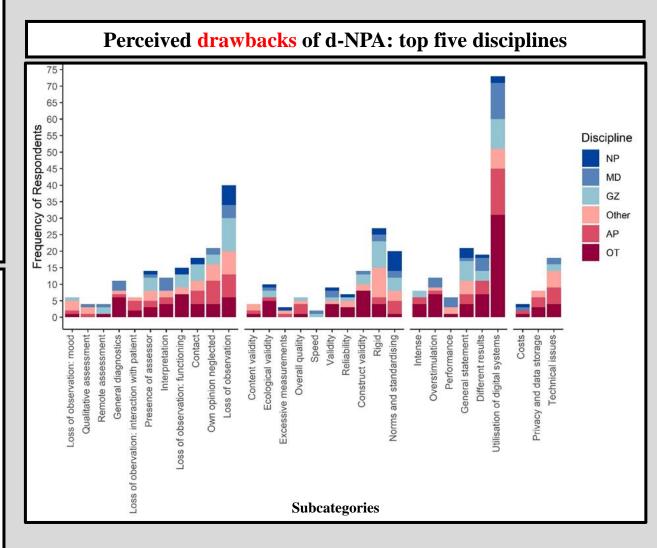
Top five disciplines:

- 1. Occupational therapist (OT; 32.5%)
- 2. Assistant psychologist (AP; 16.9%)
- 3. Healthcare psychologist (GZ; 14.6%)
- 4. Rehabilitation physician (MD; 12.9%)
- 5. Clinical (neuro)psychologist (NP; 7.3%)
- 6. Other (15.9%)
- Thematic analysis (i.e., themes derived from the data)
  - 1. Definition: Holsti's reliability coefficient [CR] = .78
  - 2. Benefits & drawbacks: Holsti's CR = .72 & .80

### **Results:**

- "A digital test that could be conducted either remotely or in a conventional setting using a computer or tablet
- Primary benefit = efficiency (faster processing of test result)
  Primary drawback = validity (test performance reflected digital proficiency)
- 3. No pronounced differences among different disciplines





## **Conclusions:**

- It is important to develop user-friendly digital systems in close collaboration with end users to address validity issues and meet individual patient needs
- By addressing these issues, digital tests can be made more accessible and effective for a diverse clinical population