ACTIVITY CARD SORT NL 2.0:

FUTURE PROOF DEVELOPMENT OF AN INSTRUMENT MEASURING PARTICIPATION IN ACTIVITIES

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CREATING TOMORROW
AIM OF THIS PRESENTATION

• To share experiences of implementation and development of the ACS- NL;

• in practice, education and research.

• Foster research and collaboration with professionals, students and clients.

• Inspire you with the power of photos illustrating activities.
INTRODUCTION

• Participation involves active engagement in daily life, in families, in work and in communities (Christiansen et al., 2005).

• Engagement in social activities key determinant for healthy ageing (Piskur, 2012).

• The enablement of engagement in desired and/or needed occupations is core domain OT (Townsend & Polatajko, 2007).
ACTIVITY CARD SORT - NL

**Instrument**
Assessment of the perceived level of participation (Baum, 2006)
Photo based, Dutch Version (van Nes, Jong, 2012)
Focus on 79 instrumental, leisure and social activities

**Scores**
Provides an activity level (score range: 0 – 100+):
Percentage of activities,
currently engaged in vs. involved with, prior to illness or life event.
Overall score or a domain score.
Selection five activities that are most important to them.
ACTIVITY CARD SORT - NL

• Comprises four domains:
  • instrumental activities
  • social activities
  • high-demand leisure activities
  • low-demand leisure activities

• Versions:
  • institutional
  • recovering
  • community

• Provides an activity level (score)

• Labels
ACS-NL IN PRACTICE

• Cultural evaluation 2008
• Translation
• Expert meetings 2010
• Instrument development and design 2012
• Development ACS-NL course 2013

• Release Dutch guidelines for OT in stroke 2013
• 160 OT’s educated and trained 2015
• Development ACS-NL 2.0 2015
ACS-NL IN EDUCATION

• Implement in OT bachelor curricula
• Educate students and teachers

Student (research) projects in:

• Digital scoring form
• Tablet / web-application
• Online community platform
• Midlife’- version
• ACS-NL 2.0
**Hogeschool van Amsterdam Activity Card Sort NL**

**B. Revalidatie versie**


<table>
<thead>
<tr>
<th>Nummer</th>
<th>Activiteiten (IADL)</th>
<th>Doe het niet meer</th>
<th>Doe het minder</th>
<th>Begin het opnieuw te doen</th>
<th>Blijven doen</th>
<th>In het verleden gedaan</th>
<th>Nieuwe activiteit</th>
<th>Niet gedaan</th>
<th>Tevredenheid</th>
</tr>
</thead>
<tbody>
<tr>
<td>23</td>
<td>Rusten</td>
<td>0,5</td>
<td>0,5</td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>24</td>
<td>Naar de kapper gaan</td>
<td></td>
<td>0,5</td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>25</td>
<td>Op (klein)kinderen passen</td>
<td></td>
<td>0,5</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Totaal IADL activiteiten</strong></td>
<td><strong>0</strong></td>
<td><strong>0,5</strong></td>
<td><strong>4</strong></td>
<td><strong>6</strong></td>
<td><strong>0</strong></td>
<td><strong>2</strong></td>
<td></td>
<td><strong>3</strong></td>
</tr>
</tbody>
</table>

**Notities**

Huidig: 5
Vroeger: 6
% Behouden: 83,3%
TABLET / WEB APPLICATION

Activity Card Sort-NL

**Versie**
- Institutionele versie (versie A)
- Revalidatie versie (versie B)
- Thuiswonende versie (versie C)
- Demo

**Categorie**
- IADL
- Vrije tijd, lage fysieke belasting
- Vrije tijd, hoge fysieke belasting
- Sociaal

Volgende
Blijven doen

Begin het opnieuw te doen

Nieuwe activiteit

Doe het minder

Doe het niet meer

Niet gedaan

(ACTIEF) WANDELEN

Vorige

Volgende
Blijven doen
Begin het opnieuw te doen
Nieuwe activiteit
Doe het minder
Doe het niet meer
Niet gedaan

(ACTIEF) WANDELEN

Vorige  Volgende
‘MID-LIFE DRAFT VERSION’ ACS-NL

• For younger clients
• Work-life-balance
• Chronic fatigue syndrome (CFS)
• Interventions ‘Energy Conservation’\textsuperscript{1} and ‘Energiek’\textsuperscript{2}

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ACS-NL IN RESEARCH

VOGELS KIJKEN
CONSTRUCT VALIDITY OF THE DUTCH VERSION OF THE ACTIVITY CARD SORT

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### CONSTRUCT VALIDITY OF THE ACS-NL (1)

#### Methods

**Participants and setting**
- sample of 191 individuals with PD participating in the Occupational Therapy in Parkinsons’Disease (OTiP) study (Sturkenboom et al., 2013)

**Study design**
- cross sectional study

**Inclusion criteria**
- idiopathic Parkinson’s disease, live at home, difficulties in valued daily activities

**Analysis**
- discriminative validity: extreme-group design *(Hoehn and Yahr stages 1 and 3)*; Mann-Whitney test

- convergent validity: ACS-NL, Canadian Occupational Performance Measure (COPM) and the Parkinson’s Disease Questionnaire (PDQ-39); Spearman's r

- ACS-NL satisfaction with COPM and the Utrecht Scale for the Evaluation of Rehabilitation Participation (USER-P).
CONSTRUCT VALIDITY OF THE ACS-NL (2)

Results

discriminative validity: good (U = 576.5, p < 0.001)

convergent validity: weakly COPM scores (r = .19, p < 0.001)
moderately PDQ-39 scores (r = .44 to .55, p < 0.001)
weakly COPM satisfaction scores (r = .22, p < 0.001)
moderately USER-P satisfaction scores (r ≥ .46, p < 0.001).

Conclusions

good discriminative validity
weak to moderate convergent validity
ACS-NL provides additional information on participation in individuals with PD
added measure of self-perceived satisfaction seems redundant.
ACS-NL 2.0

- OT’s experiences and recommendations from practice and research:
  - Less bright colors
  - Digital version
  - Improvement manual
  - Improvement scoring forms
  - More practical, feasible, less time consuming
  - Extra label “want to do again”
  - Improvement clinimetric properties

- ACS 2.0 Pilot version:
  - One scoring form, one version
  - New satisfaction measure
  - New frequency measure
  - Focus on prioritized activities
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REFERENCES


THANK YOU FOR YOUR ATTENTION!

QUESTIONS?