

Assessment of Awareness of Disability (AAD):

An occupation-based approach to evaluate awareness

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Assessment of Awareness of Disability – Introduction

Discrepancy between client's unique experiences from task performance and clinical judgements made by the OT

Awareness of disabilities in performance?

Well-known clinical problems in persons with a variety of disabilities

No evaluation of awareness of disability focused on *actual performance of relevant and meaningful ADL tasks*

Assessment of Awareness of Disability – clinical aspects

An evaluation of awareness should preferably:

Be based on a clear comparison between observation in everyday situations and personal experiences

Have systematic administration and scoring procedures

Be based on a top-down approach

Be placed in a client-centred process and support intervention planning

Assessment of Awareness of Disability – Definition

Awareness of disability:

"No discrepancy between a person's observed task limitations and the experienced and self-described task limitations after the performance of specific ADL tasks"

The Assessment of Motor and Process Skills (AMPS)

Client-centred evaluation of ADL processes and outcomes

ADL motor skills

ADL process skills

Large body of evidence when used with clients with a variety of disorders

Assessment of Awareness of Disability – Administration

- Determining whether or not AMPS and AAD is appropriate for a client
 - Prepare for AMPS interview
 - Implementing AMPS interview, setting up test environment and finalizing task contract
 - Observation of task 1
 - Implementing AAD interview task 1
 - Observation of task 2
 - Implementing AAD interview task 2
 - Scoring AMPS task 1 and task 2
 - (Entering data into AMPS computer-scoring software, and initial interpretation of AMPS evaluation)
 - Scoring AAD task 1 and task 2
 - Interpretation of results
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Assessment of Awareness of Disability – Administration

Clients

- ADL limitations
- Concerns related to awareness of disability, *or*
- Any client where a c-c perspective onto intervention planning is implemented

Selection of tasks

Assessment of Awareness of Disability – Administration

Introduction of AAD Interview

AAD Interview Guide

How was it for you to move or transfer your body when you...? Can you describe?

When you think about..., did you perform the task as we decided beforehand? Can you describe?

Follow-up questions

Examples of relevant AMPS skill items: Coordinates Manipulates Flows Calibrates Grips Handles

Occupational therapy evaluation	ADL limitations	Client Description	AAD
<input type="checkbox"/>	None	<input type="checkbox"/>	4 <input type="checkbox"/>
<input type="checkbox"/>	Minimal	<input type="checkbox"/>	3 <input type="checkbox"/>
<input type="checkbox"/>	Moderate/Obsvious	<input type="checkbox"/>	2 <input type="checkbox"/>
<input type="checkbox"/>	Major	<input type="checkbox"/>	1 <input type="checkbox"/>

Assessment of Awareness of Disability – Administration

Judging the amount of discrepancy between the client's observed ADL limitations and the experienced and self-described ADL limitations is based on a 4-point criterion rating scale

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Examples of relevant AMPS skill items: Coordinates Manipulates Flows Calibrates Grips Handles

Occupational therapy evaluation	ADL limitations	Client Description	AAD	
	None			
Several problems when using hands during task	None	I had a lot of hand problems when making the sandwich	4	<input checked="" type="checkbox"/>
	Minimal		3	<input type="checkbox"/>
	Moderate/Obsvious		2	<input type="checkbox"/>
	Major		1	<input type="checkbox"/>

Examples of relevant AMPS skill items: Coordinates Manipulates Flows Calibrates Grips Handles

Occupational therapy evaluation	ADL limitations	Client Description	AAD	
	None			
Several problems when using hands during task	None	I did not have any problems at all with my hands	4	<input type="checkbox"/>
	Minimal		3	<input type="checkbox"/>
	Moderate/Obsvious		2	<input checked="" type="checkbox"/>
	Major		1	<input type="checkbox"/>

Examples of relevant AMPS skill items: Coordinates Manipulates Flows Calibrates Grips Handles

Occupational therapy evaluation	ADL limitations	Client Description	AAD
Several problems when using hands during task, and cut himself	None	I did not have any problems at all with my hands	4
	Minimal		3
	Moderate/Obsvious		2
	Major		1

Assessment of Awareness of Disability – Administration

The administration of AAD generates a client profile:

Summarizes the OT AMPS evaluation in different occupational performance areas

Summarizes client's perceptions of problems in ADL performance

Indicates occupational performance areas where there is more or less discrepancy between OT's and client's perceptions of problems

Assessment of Awareness of Disability – Planning Intervention

Step 1: Limitations in occupational performance ?

Step 2: Potential causes to these limitations ?

- Person
- Task
- Environment

Step 3: Discrepancies between perspectives (OT vs. Client?) (AAD)

Step 4: Limited awareness potential obstacle

Step 5: Causes to limitations in awareness?

- Denial, Limited experience
- Cognitive limitations

Examples of relevant AMPS skill items: Coordinates Manipulates Flows Calibrates Grips Handles

Occupational therapy evaluation	ADL limitations	Client Description	AAD	
<input type="checkbox"/>	None	<input type="checkbox"/>	4	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Minimal	<input type="checkbox"/>	3	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Moderate/Obvious	<input checked="" type="checkbox"/>	2	<input type="checkbox"/>
<input type="checkbox"/>	Major	<input type="checkbox"/>	1	<input type="checkbox"/>

Interpretation: Client is aware of limitations observed
C-C Intervention planning can be initiated immediately

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Exempel på relevanta AMPS-färdigheter: Koordinerar Manipulerar Har Öyn Kultureras Greppar Hanterar

Arbetssterapeutens bedömning	ADL-begränsningar	Klientens beskrivning	AAD	
<input type="checkbox"/>	Inga	<input type="checkbox"/>	4	<input type="checkbox"/>
<input type="checkbox"/>	Minimala	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Måttliga/Tydliga	<input type="checkbox"/>	2	<input type="checkbox"/>
<input type="checkbox"/>	Stora/uttalade	<input type="checkbox"/>	1	<input type="checkbox"/>

Interpretation: Client is to some extent aware of limitations observed
C-C Intervention planning can be initiated immediately

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Examples of relevant AMPS skill items: Coordinates Manipulates Flows Calibrates Grips Handles

Occupational therapy evaluation	ADL limitations	Client Description	AAD	
<input type="checkbox"/>	None	<input checked="" type="checkbox"/>	4	<input type="checkbox"/>
<input type="checkbox"/>	Minimal	<input type="checkbox"/>	3	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Moderate/Obvious	<input type="checkbox"/>	2	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Major	<input type="checkbox"/>	1	<input type="checkbox"/>

Interpretation: Client is not aware of limitations observed
C-C Intervention planning must recognize and address this discrepancy accordingly

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Examples of relevant AMPS skill items: Coordinates Manipulates Flows Calibrates Grips Handles

Occupational therapy evaluation	ADL limitations	Client Description	AAD
<input type="checkbox"/>	None	<input checked="" type="checkbox"/>	4
<input type="checkbox"/>	Minimal	<input type="checkbox"/>	3
<input type="checkbox"/>	Moderate/Obvious	<input type="checkbox"/>	2
<input checked="" type="checkbox"/>	Major	<input type="checkbox"/>	1

Major ADL limitations (risk/need for support) not described by client
Interpretation: No awareness in client of these limitations
Immediate C-C planning involving environment (caregivers etc)

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Assessment of Awareness of Disability - Planning intervention

Note:

Same person may have different patterns across scores!

What do we want to improve?

Clients may improve in ADL functioning despite improvements in awareness!

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Assessment of Awareness of Disability - clinical utility

Support client-centred intervention planning process

Identifying clients at risk

Evaluate the effectiveness of OT interventions

Follow changes in clients over time

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Assessment of Awareness of Disability – Clinical Utility Limitations

Calibrated AMPS rater first

Three-day course and calibration (10 clients)

Time for analyzing AMPS/AAD evaluations

Not yet any computer software support

The AAD does not detect the underlying causes to limitations in awareness

Assessment of Awareness of Disability – Research

Tham, K., B. Bernspång, and A.G. Fisher,
Development of Assessment of Awareness of
Disability. *Scandinavian Journal of Occupational
Therapy, 1999, 4:* p. 184–190

Population: Clients with RCVA

Conclusion: Construct validity of a pilot version of
AAD

Precision of AAD measures (reliability)

Assessment of Awareness of Disability – Research

Tham, K., et al., Training to improve awareness of
disabilities in clients with unilateral neglect. *American
Journal of Occupational Therapy, 2001, 55:* p. 46–54

Population: Clients with RCVA

Conclusion: Stability of AAD measures over time
(test-retest reliability)

Sensitivity of AAD measures to detect
change in relation to intervention

Assessment of Awareness of Disability – Research

Kottorp A, Hällgren M, Bernspång B, & Fisher AG (2003). Client-centred occupational therapy for persons with mental retardation: Implementation of an intervention programme in activities of daily living. *Scandinavian Journal of Occupational Therapy* 10, 51–60.

Population: Clients with moderate MR

Conclusion: Stability of AAD measures over time (test-retest reliability)

Sensitivity of AAD measures to detect change in relation to client-centred occupational therapy intervention

Assessment of Awareness of Disability – Research

Hällgren, M & Kottorp A (2005). Effects of occupational therapy intervention on activities of daily living and awareness of disability in persons with intellectual disabilities. *Australian Occupational Therapy Journal* 52, 350–359.

Population: Clients with mild MR

Conclusion: Stability of AAD measures over time (test-retest reliability)

Sensitivity of AAD measures to detect change in relation to a refined client-centred OT program

Assessment of Awareness of Disability – Research

Anderson R, Kottorp A, Merritt B & Doble S. (2006) *Stability of the AAD measures in persons with ABI*. Master's thesis in preparation for publication.

Population: Clients with ABI

Conclusion: Stability of the AAD measures over time (test-retest stability)

Assessment of Awareness of Disability – Research

Ekstam L, Kottorp A. & Tham K. (2007). Awareness of disability and ADL ability in long-term follow-up after stroke. *American Journal of Occupational Therapy* 61, 503-511

Population: Clients with stroke

Conclusion: Relationship to occupational performance

Strength of relationship varies in relation to time after stroke

Assessment of Awareness of Disability – Research

Patomella A-H, Kottorp A & Tham K. (2008). An explorative study of awareness of driving ability in people with driving difficulties after stroke. *Scandinavian Journal of Occupational Therapy*, accepted for publication.

Population: Clients with stroke

Conclusion: Person response validity of the Driving-AAD measures in persons with stroke

A limited awareness can predict driving ability

Assessment of Awareness of Disability – Contact

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<http://www.aadintl.org>
