

Blending Activity and Participation: Evidence for Five Major Factors Underlying Disability and Function

Stephen M. Haley

Alan M. Jette

Wei Tao

Health and Disability Research Institute
Boston University



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The Promise of ICF**

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Introduction

- Measuring functional outcomes across post-acute care (PAC) settings
- “Uniform Patient Assessment for Post-acute Care.”
- <http://www.bu.edu/hdr/>
- Look to the ICF to guide conceptual approach

Activity and Participation Domains

- Evidence for separate Activity and Participation domains (Jette, et al, 2003; Haley et al, 2004)
- **Activity**- execution of a task or action by an individual [get out of bed]
- **Participation**- involvement in a life situation [get out to visit friends]
- Built PAC instrument that attempted to distinguish between the two concepts

Two Main Questions

- Does initial exploratory factor analysis of items administered to a PAC sample support explicit Activity and Participation domains?
- Is there support for the existence of the content represented by all nine ICF chapters in a PAC sample?

Sample

- 272 PAC patients
- Average age 64.5 years; range 19-93 yrs.
- 56.3% female
- Settings include:
 - 49% Home care
 - 51% Outpatient
- 82 core functional items
 - 36 activity
 - 47 participation

Methods

- Exploratory Factor Analysis
- M Plus software
- Oblique rotation (Promax)
- Confirmatory Factor Analysis
- Item Response Theory Analysis

Results

Five Factor Result

- 58% of variance
- Five Major Factors (items)
 - **Daily Activities** (16)
 - **Applied Cognitive** (15)
 - **Role** (31)
 - **Mobility** (12)
 - **Social** (8)

PAC Daily Activities Dimension

Daily Activities

Applied Cognitive

Role

Mobility

Social

Learning and Applying Knowledge

General Tasks and Demands

Communication

Mobility

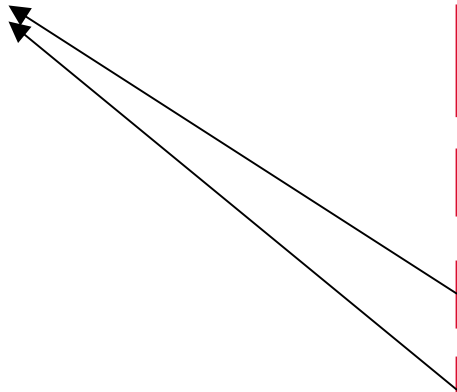
Self-care

Domestic Life

Interactions and Relationships

Major Life Areas

Community, Social and Civic



PAC Applied Cognitive Dimension

Daily Activities

Applied Cognitive

Role

Mobility

Social

Learning and Applying Knowledge

General Tasks and Demands

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PAC Role Dimension

Daily Activities

Applied Cognitive

Role

Mobility

Social

Learning and Applying Knowledge

General Tasks and Demands

Communication

Mobility

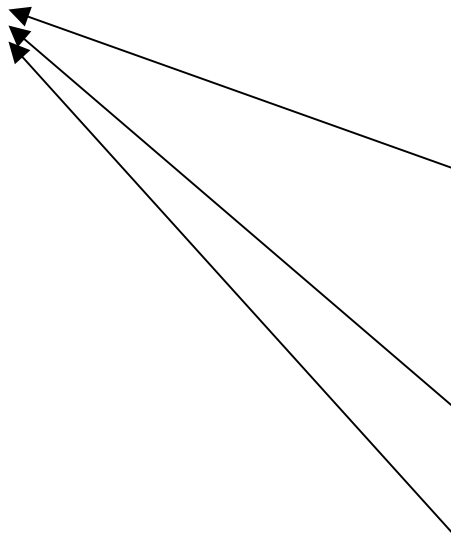
Self-care

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PAC Mobility Dimension

Daily Activities

Applied Cognitive

Role

Mobility

Social

Learning and Applying Knowledge

General Tasks and Demands

Communication

Mobility

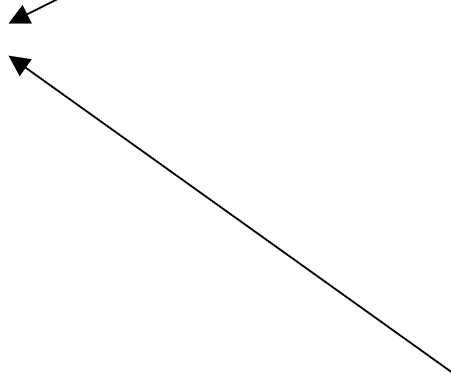
Self-care

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PAC Social Dimension

Daily Activities

Applied Cognitive

Role

Mobility

Social

Learning and Applying Knowledge

General Tasks and Demands

Communication

Mobility

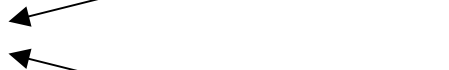
Self-care

Domestic Life

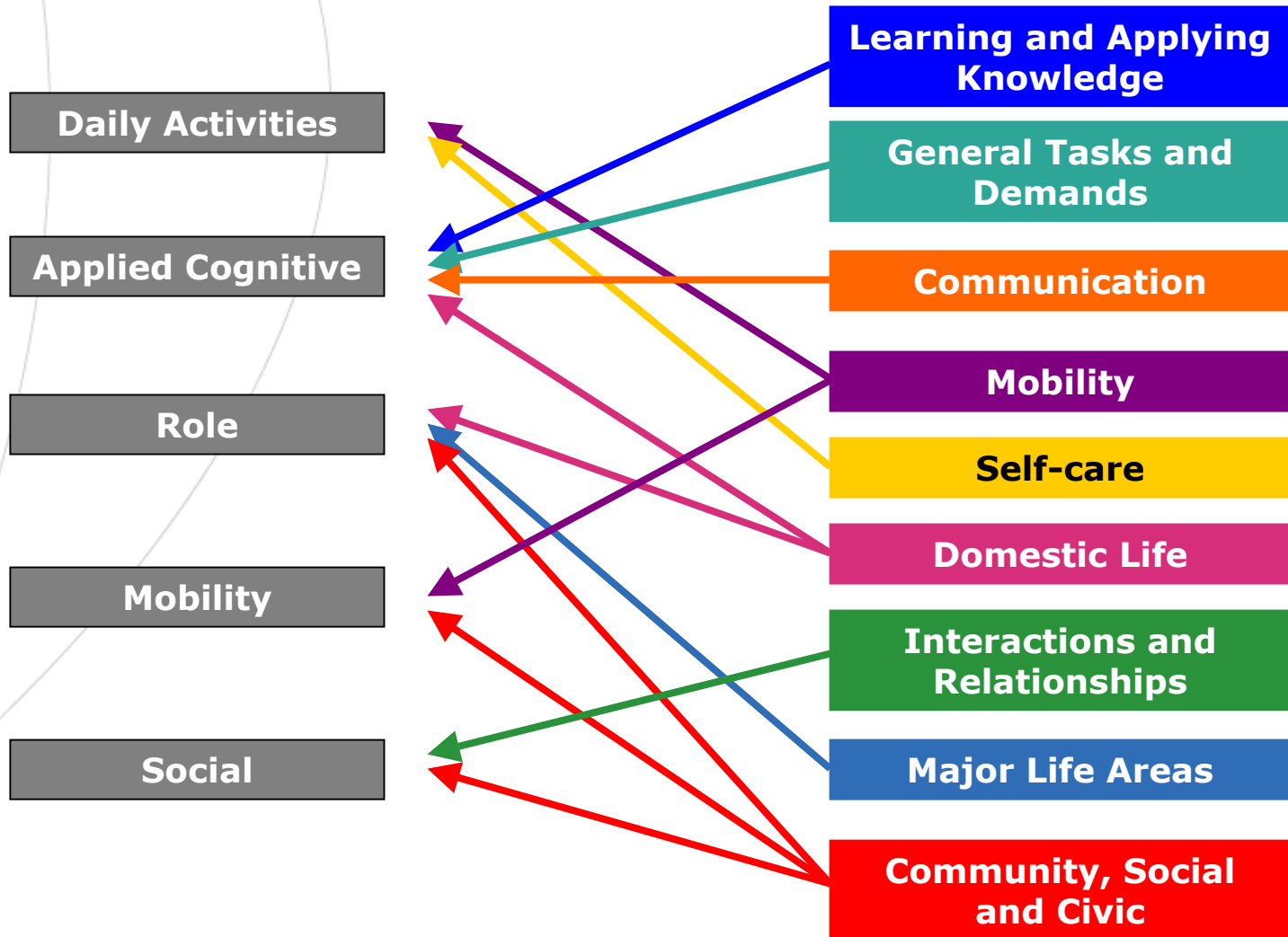
Interactions and Relationships

Major Life Areas

Community, Social and Civic



Five PAC Dimensions



Conclusions: Two Main Questions

- Does initial exploratory factor analysis of items administered to a PAC sample support explicit Activity and Participation domains?
 - No - there is a blend of actions (activity) and items that describe involvement in life situations (participation)
- Is there support for the existence of all nine ICF chapters in a PAC sample?
 - No - five factors seem to better describe the breadth of activity and participation items

Future Work

- **Preliminary assessment** of ICF concepts in PAC patients
- PAC Domains map easily into the **9 ICF Activity and Participation Chapters**
- Five domains cover broad content that is applicable **across PAC settings and episodes**
- More **conceptual research** is needed to confirm these findings

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