

# LEUVEN



Staff interactive style during multi-sensory storytelling with persons with profound intellectual and multiple disabilities

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# Problem statement

Need for

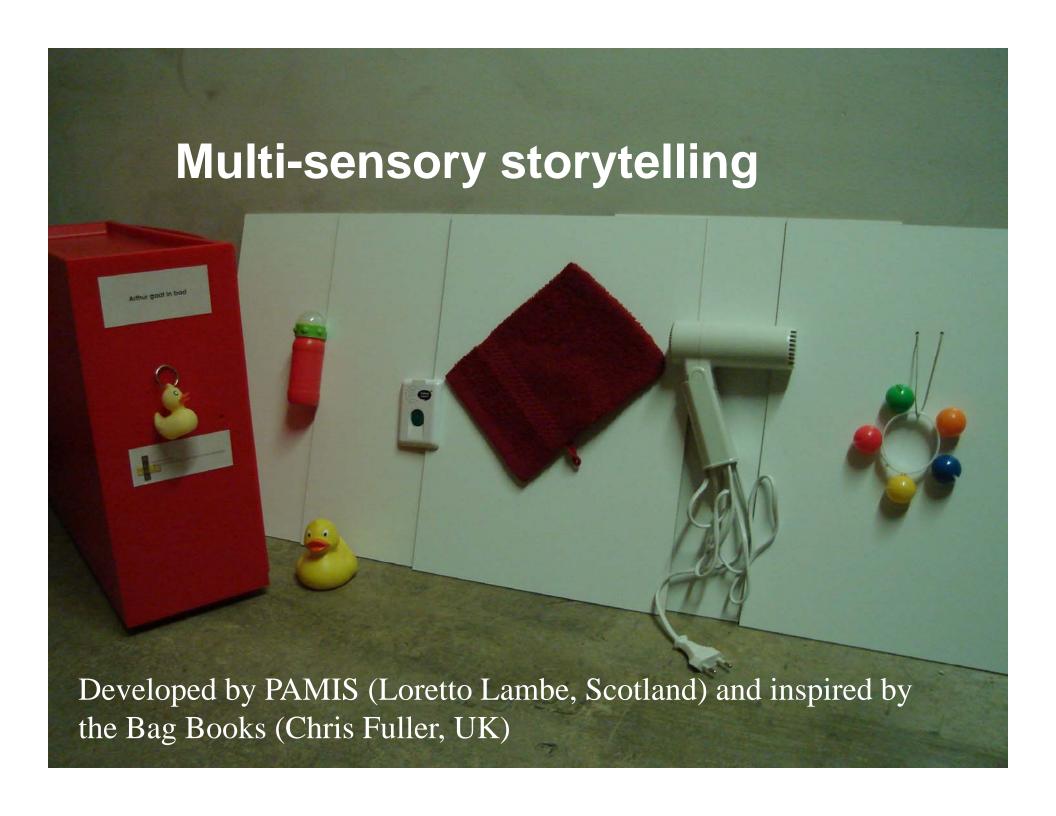
more and more well-planned stimulating activities for people with PIMD

based on individual preferences, interests and capacities

with participation in daily and community activities

with opportunities for choice and control

(De Waele & Van Hove, 2005; Maes, Vos & Penne, 2010; Seifert, Fornefeld & Koenig, 2001; Wiersma et al., 2002; Zijlstra & Vlaskamp, 2005; Vlaskamp & Nakken, 1999)



# Problem statement

But...also need for adequate staff support and qualitative interaction during activities

- e.g. Active Support: more support, more active engagement, more activities planned (Felce et al., 2000; Jones et al., 2001; Mansell et al., 2002; Parsons et al., 2004; Stancliffe et al., 2008)...
- e.g. sensory stimulation sessions with objects of preference and focus on interaction vs. specifically designed and expensive multi-sensory rooms (Fava & Strauss, 2010; Lancioni, Cuvo & O'Reilly, 2002; Vlaskamp et al., 2003)
- e.g. high-quality interactions contribute to alertness & engagement, happiness & well-being (Arthur, 2004; Clarke et al., 2002; Realon et al., 2002; Singh et al., 2004)...

# Problem statement

### Qualitative interaction:

 persons with PIMD are at risk for experiencing nonoptimal interactions

• the interactive style of the interaction partner is considered one of the contributing factors in the quality of this process (Hostyn & Maes, 2009)

# Research questions

What is the quality of the interactive style staff show during MSST?

Are client or staff characteristics associated with this interactive style?



## **METHODS**

### **Participants**

20 children/adults with PIMD and their professional caregiver

#### **Measures**

Coding of quality of staff interactive style: (part of the) Maternal Behavior Rating Scale (MBRS; Mahoney, 1992):

- instrument from parent-infant research: a global rating scale consisting of 12 items referring to maternal behaviour in parent-infant interaction
- applicable and useful to evaluate interactions between persons with PIMD and their direct support staff on the basis of sufficient training and knowledge of the interaction with persons with PIMD (Hostyn, Petry, Lambrechts & Maes, 2010)
- scoring videotaped interactions on a 5-point Likert-scale for the 12 maternal behavioural scale items > assessment of 4 interactive style factors

# Methods

Selection of 7 items for the MSST-research, on a content basis:

### **RESPONSIVE/ CHILD ORIENTED**

sensitivity to child's interest responsivity effectiveness (reciprocity)

## **AFFECT/ANIMATION**

acceptance enjoyment expressiveness warmth

# Procedure

- training for staff: principles of MSST
- development of the stories
- implementation of the activity
  - 1 pilot session + 10 storytelling sessions
  - same storyteller
  - once a week, for a period of 10 weeks
  - fixed moment, fixed place

## Procedure

- observational procedures
  1st, 5th and 10th session videotaped by researchers
- observer training and data coding procedures

two raters

training in using the MBRS

rating independently, consensus procedure

# **Quality of staff interactive style as assessed by 7 items of the MBRS**

Descriptive statistics

Mean global MBRS-ratings (N = 57)

	М	SD
expressiveness	3.44	0.76
effectiveness	3.40	0.65
sensitivity	3.37	0.94
responsivity	3.23	0.95
pleasure	3.21	0.67
acceptance	2.89	0.56
warmth	2.53	0.83

- Mean global MBRS-ratings all above the midpoint of the 5-point scale. On average: caregivers are at least moderately sensitive, consistently responsive, moderately effective, acceptant, pervasively enjoying, moderately overtly expressive and warm during the MSST-activity

Expressiveness: highest mean global rating

Acceptance and warmth score remarkably lower than the other items

- Results confirmed for the 1st, 5th and 10th storytelling session seperately

Repeated measures MANOVA: no significant main effect of time (session): Wilks'  $\lambda = 0.30$ , F(14,4) = 0.66, p = 0.75

# Relationship of client characteristics to quality of staff interactive style

- sex
- chronological age
- developmental age
- having visual and/or hearing problems
- autism spectrum disorder
- epilepsy
- the scoring on the 11 factors of the Checklist Child Characteristics

Repeated measures one-way MANOVA/ MANCOVA: no significant main effect

# Relationship of staff characteristics to quality of staff interactive style

- job
- age
- experience with people with PIMD
- experience with the specific client

Repeated measures one-way MANOVA/ MANCOVA: no significant main effect

# Conclusion & discussion

- moderate scores on different dimensions of interactive style: acceptable, but staff should do better. Training!
- high rating for expressiveness > indication of influence context on quality of interactive style?
- low rating for acceptance and warmth > cf. other research: emotional component in interaction needs further attention
- no evolution in time of interactive style quality: no regression, but no improvement either?
- no influence of client and staff characteristics (?)

# Conclusion & discussion

## **Methodological issues**

- instrument from parent-infant research
- selection of items from the original MBRS
- 5-point Likert-scale
- · consensus method



# Conclusion & discussion

### **Future research**

- analysis of client interactive behavior
- relation to client effects?
- more sensitive measures
- comparison of interactive style quality in different contexts