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2023

Link to publication in VU Research Portal

citation for published version (APA)
Starreveld, K., Overbeek, M., Willemen, A., & Bakermans-Kranenburg, M. J. (2023). Child Caregiver Interaction Scale Early Elementary Education (CCIS-E). Poster session presented at Annual Conference LEARN! & EducationLab, Amsterdam, Netherlands.

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Child Caregiver Interaction Scale Early Elementary Education (CCIS-E)

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ABSTRACT

- We adapted the The Child-Caregiver Interaction Scale (CCIS, Carl 2007, 2010) used in childcare, for early elementary education (CCIS-E). Training and scoring are relatively straightforward.
- This poster provides a preliminary overview of the reliability and validity of the CCIS-E.
- 53 teachers from kindergarten, Grade 1 and Grade 2 participated in three assessments at school.
- The CCIS-E can be structured into domains using the Three Basic Dimensions framework (Praetorius et al., 2018), with some overlap between the domains.

BACKGROUND

- Classroom observation instruments often have complex training and scoring procedures.
- Teaching quality is conceptualized as a complex social process, co-constructed trough interactions between children and teachers (e.g., Burchinal, 2018, Bell et al., 2019).
- The Child-Caregiver Interaction Scale (CCIS, Carl 2007, 2010) is a comprehensive measure on caregiver-child interaction quality in childcare (Sandilos and DiPerna, 2014).
- We adapted the CCIS for use in early elementary education.



METHODS

Teachers (N=53)

- Teaching Kindergarten (53%), Grade 1 or 2 for 2 to 5 days a week (*M* = 3.51)
- 94% female
- Average age 42 years (SD = 12)
- Teaching experience ranged from 1 to 44 years (M = 12)

Children (N=53)

- 64% boys
- Average age 6 years (SD = 1.4)

The CCIS-E measures teaching quality with a focus on teacher- classroom interaction.

CCIS-E INSTRUMENT

The CCIS-E consists of 13 subscales with 7-point rating scales detailing behavioral criteria at four anchor points: 1 (inadequate), 3 (minimal), 5 (good), and 7 (excellent).

Two subscales were not included in the analysis since they were not appropriate for the school context (Scale 5 -Health and Safety and Scale 12 - Arrival and Contact with Family)

Rater training CCIS-E

<u> </u>					
Independent video coding	Independent video coding	Independent video coding	cation	Onsite training	Certification
1 video	3 video's	3-4 video's		Max. 5 visits	
Group discussion	Group discussion	Group discussion		Onsite reliability set	rtific
			S P	3 visits	Cel
	Independent video coding 1 video	Independent video coding 1 video 3 video's	Independent video coding Independent video coding Independent video coding 1 video 3 video's 3-4 video's	Independent video coding Independent video coding Independent video coding 1 video 3 video's 3-4 video's	Independent video coding Independent video coding Independent video coding 1 video 3 video's 3-4 video's Max. 5 visits Group discussion Group discussion Group discussion Onsite reliability set

Procedure and measures

As part of a RCT (Starreveld et al, 2023) teachers and children participated in three assessments at school, once before the (dummy) intervention (pre-test) and twice after (post-test and follow-up).

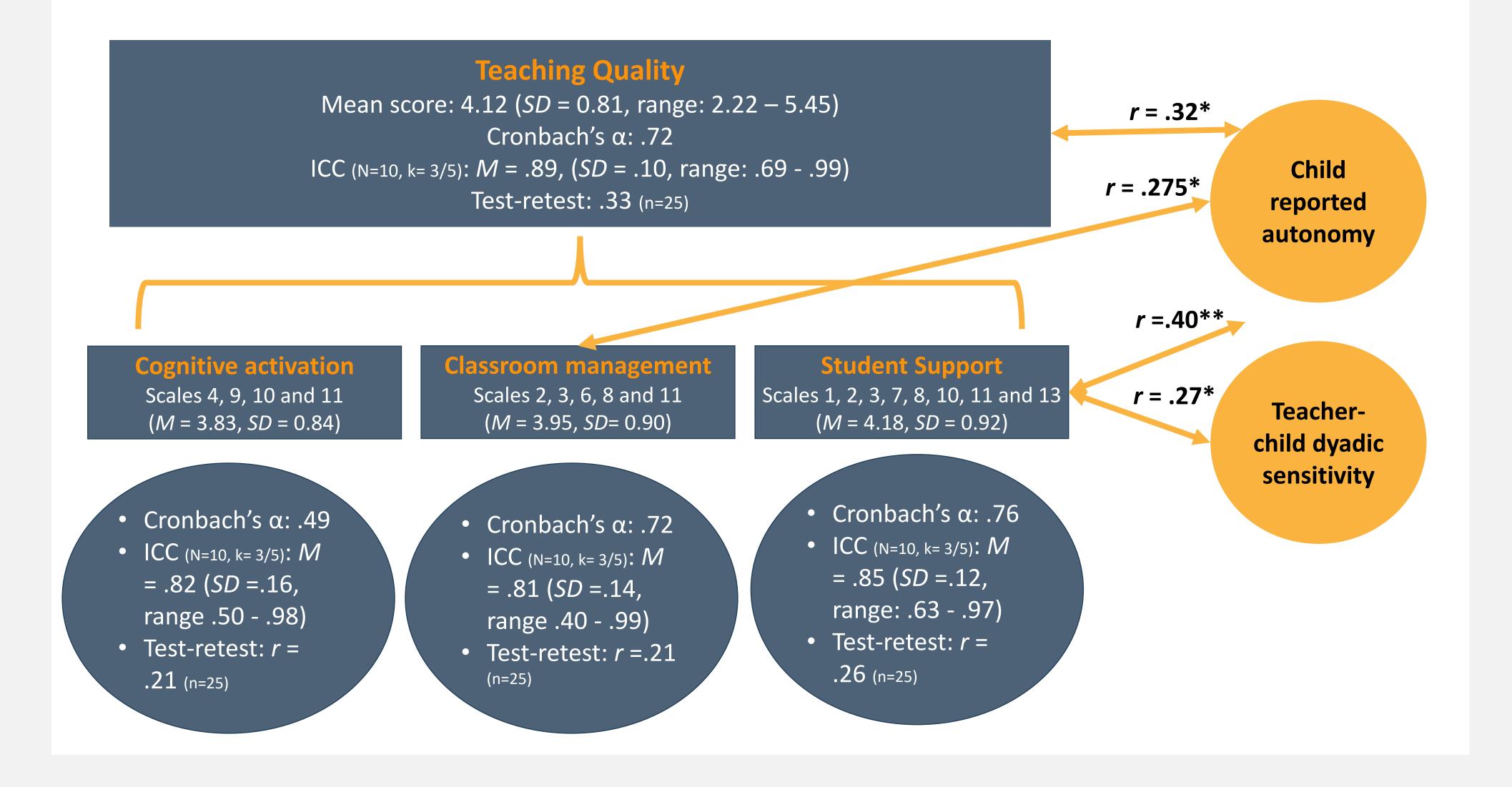
Teacher-classroom interaction: live classroom observation coded with the CCIS-E

Teacher dyadic sensitivity: dyadic teacher-child interaction coded with Erickson Scales (Egeland et al., 1990

Teacher-child relationship as perceived by the child: Y-CATS questionnaire (Mantzicopoulos & Neuharth-Pritchett, 2003)

RESULTS

- The scales of the CCIS-E can be structured into the three domains of the Three Basic Dimensions framework (Cognitive Activation, Classroom Management, Student Support), with some overlap between the domains.
- The number of days a teacher works with the class has significant negative associations with Teaching Quality (r = -.29, p < .05), Student Support (r = -.31, p < .05) and Classroom Management (r = -.33, p < .05). More teaching experience is associated with higher scores on Classroom Management (r = .32, p < .05).
- The model below shows the domains measured by the CCIS-E, the reliability coefficients and the correlations with associated constructs (child reported autonomy and teacher-child dyadic sensitivity).



CONCLUSION & FUTURE

- The CCIS-E can be structured into the three domains from the Three Basic Dimensions framework. Total Teaching Quality, Student Support and Classroom Management have good internal consistency.
- Training MA students to reliability on the domains is feasible.
- Student Support correlates with similar constructs of observed teacher dyadic sensitivity and child-reported autonomy, demonstrating construct validity.
- There are weak correlations between pre-test and posttest scores on the CCIS-E.
- We currently analyse interview qualitative data from a focus group of raters about their experiences with the CCIS-E.
- Expected publication date of the study is 2024.

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