

Effects of early child care quality on child socio-emotional outcomes; Does quantity matter?

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Background

- Increase in female labor participation
 52% in 1990 to 74% in 2012 (OECD, 2000, 2013)
- Better availability and affordability center-based child care → increase in use center-based child care 2007-2011: 60% increase, 55% of all children 0-4 (Statistics Netherlands, 2012)
- 61% part-time job → part-time center-based child care NL: 2-3 days per week (variation 1-5 days) (Veen, et al., 2010) U.S.: 4-5 days per week (U.S. Census Bureau, 2010)



Background

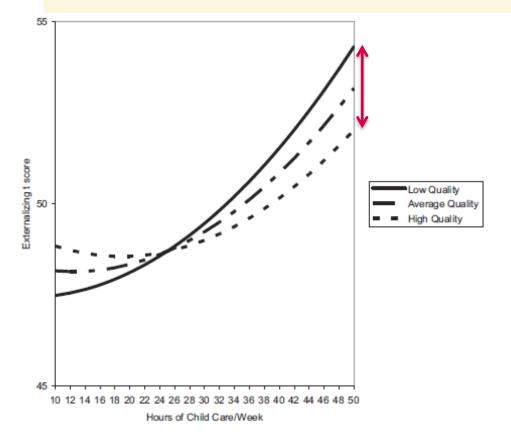
Socio-emotional development

- High quantity child care → (small) negative effects (e.g., Loeb et al., 2007; NICHD ECCRN, 2006; Vandell et al., 2010)
- High quality child care → (small) positive effects (e.g., Burchinal et al., 2008; Vandell et al., 2010; Mashburn et al., 2008)
- What about interactive effects of child care quantity and quality?





"Compensatory effect" of high quality child care



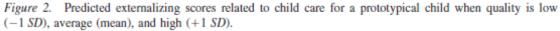


Figure from McCartney, Burchinal, Clarke-Stewart, Bub, Owen, and Belsky (2010)



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"Strengthening effect" of high quantity child care

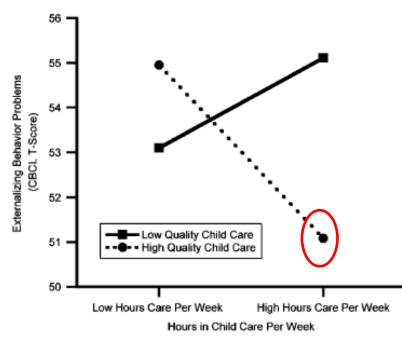


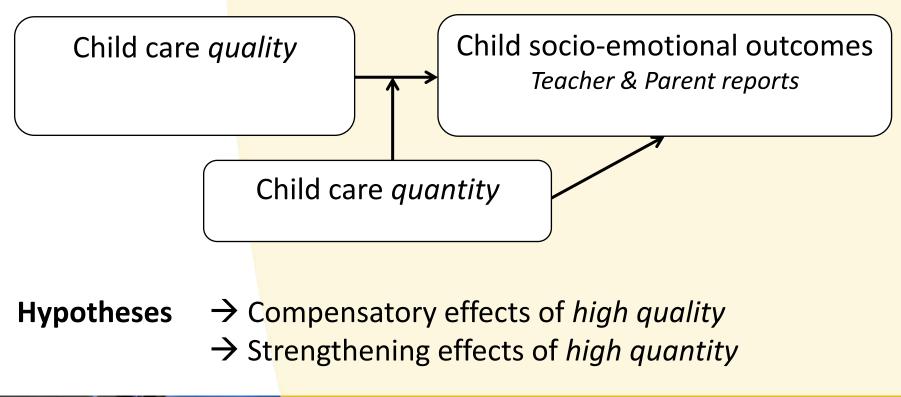
Figure 2. Interaction between hours in child care and child care quality predicting externalizing behavior problems. CBCL = Child Behavior Checklist.

Figure from Votruba-Drzal and Lindsay Chase-Lansdale (2004)



Research question

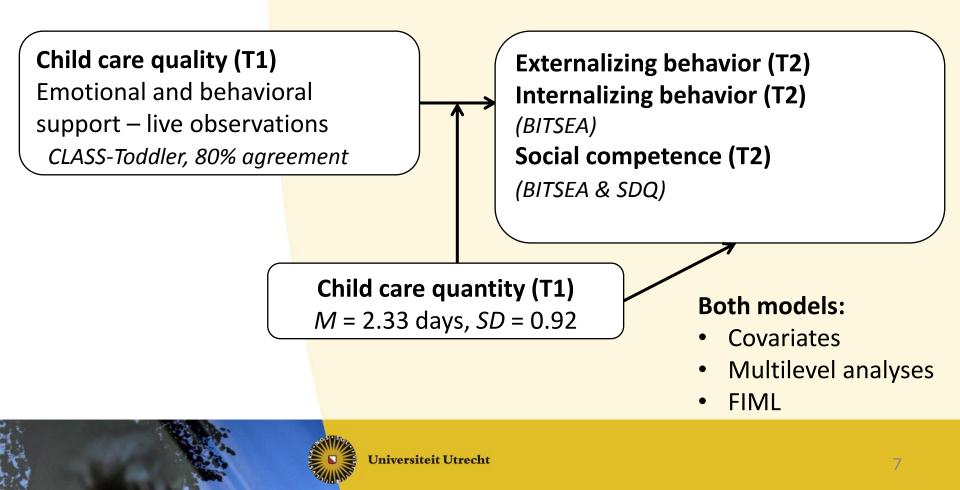
Does the association between center-based child care quality and child socio-emotional outcomes depend on the time spent in care?





Methods – Teacher & Parent model

Data:Pre-COOL study, Time 1 (age 2) & Time 2 (age 3)Sample:n = 375, M age = 2.3 years, 58 child care centers



CLASS - Toddler

(La Paro, Hamre & Pianta, 2011)



Emotional and Behavioral Support

Positive Climate

Negative Climate

Teacher Sensitivity

Regard for child perspectives

Behavior Guidance

Instructional Support

Facilitation of learning and development

Quality of Feedback

Language Modeling

1,2	= low score
3,4,5	= medium score
6,7	= high score



Child socio-emotional outcomes

Internalizing (BITSEA) – 6 items (e.g., withdrawal, general anxiety)

- Seems nervous, tense or fearful
- Has less fun than other children

Externalizing (BITSEA) – 5 items (e.g., activity, aggression, obedience)

- Restless and can't sit still
- Cries or throws tantrums until exhausted

Social competence (BITSEA & SDQ) – 12 items (e.g., helping, sharing)

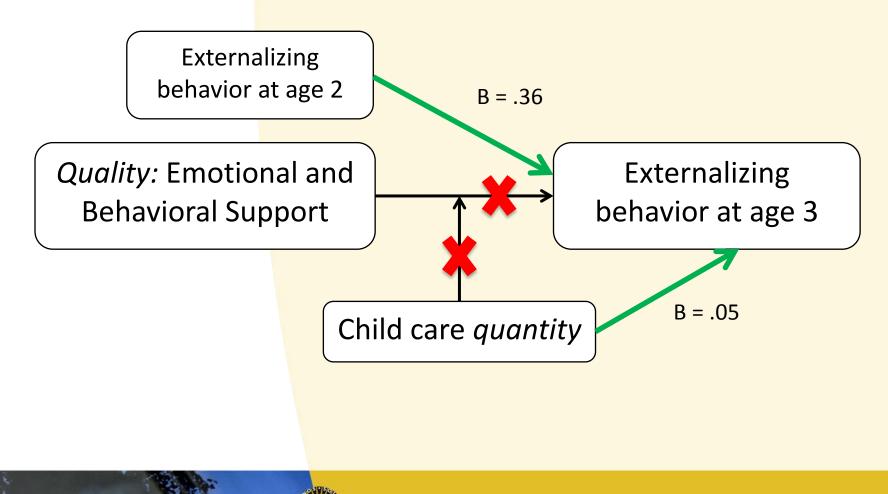
- Is affectionate with loved ones
- Often offers to help others (parents, teachers, other children)

BITSEA (Briggs-Gowan & Carter, 2002)

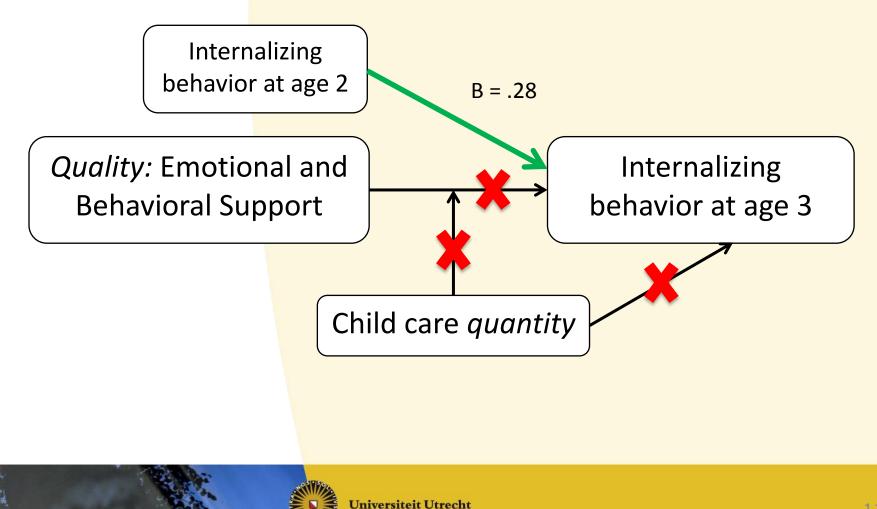
SDQ (Goodman, 1997; Widenfeldt, Goedhart, Treffers, & Goodman, 2003)



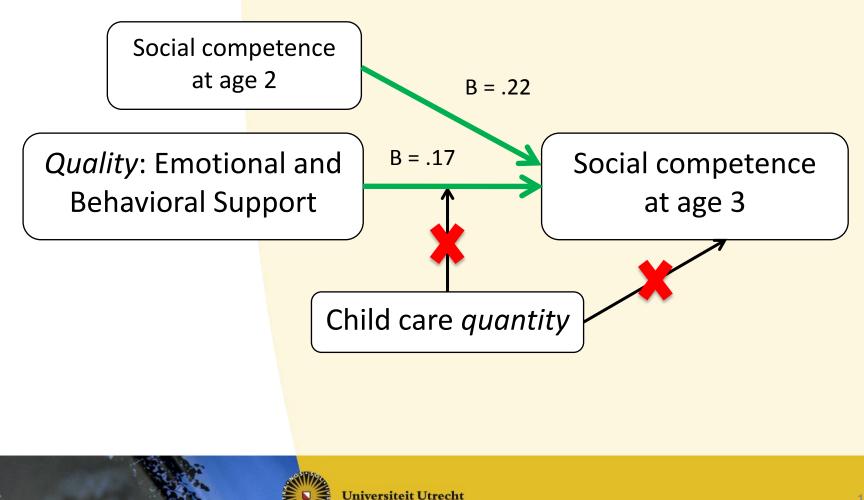
Results *Externalizing* – **Teacher report**



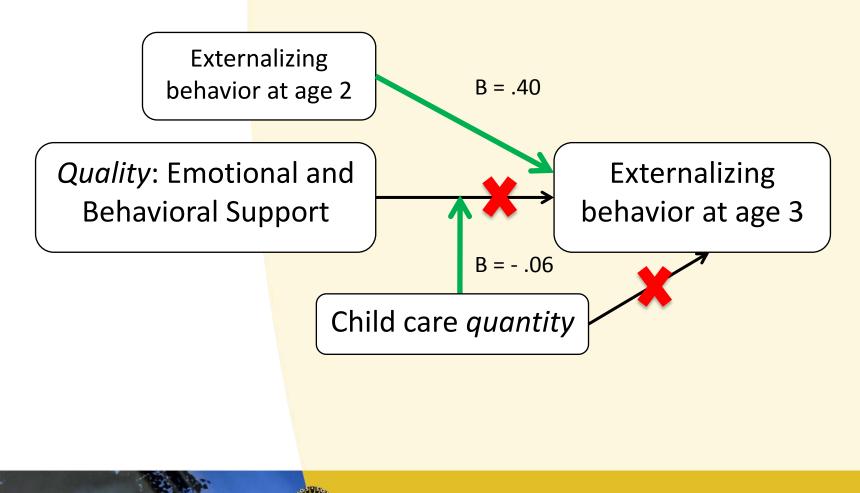
Results *Internalizing* – **Teacher report**



Results Social competence – Teacher report

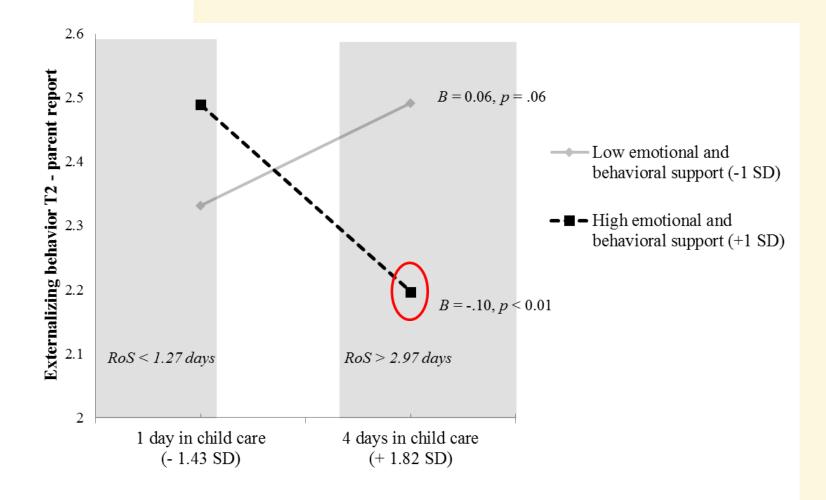


Results *Externalizing* – Parent report



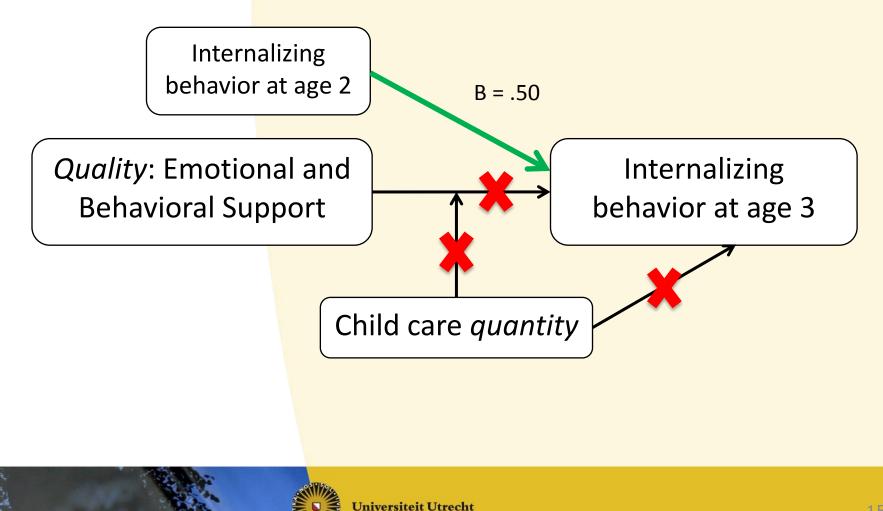


Strengthening effect of high quantity child care

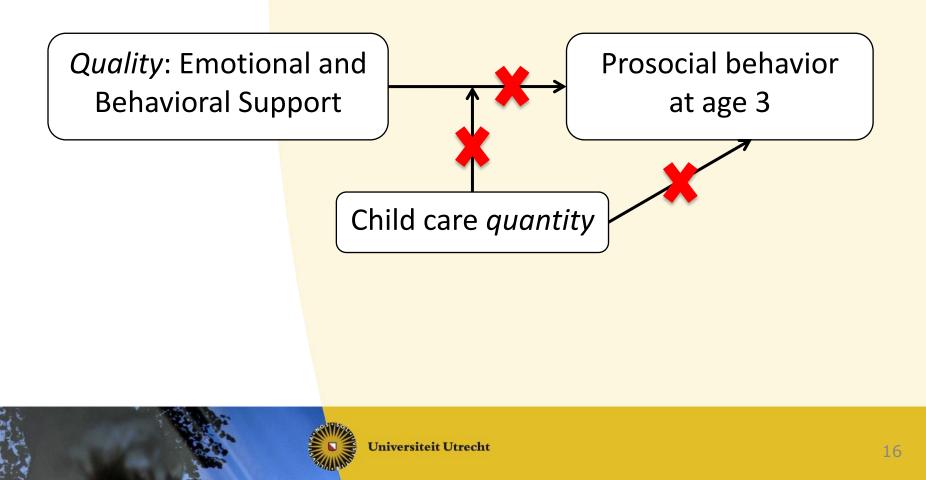




Results *Internalizing* – Parent report



Results *Prosocial behavior* – Parent report



In summary...

- High levels of child care <u>quantity</u> were related to more teacher-rated externalizing behavior one year later (age 3)
- High levels of child care <u>quality</u> were related to more teacher-rated social competence one year later (age 3)
- No main effects of child care quantity and quality for parent-rated outcomes
- > 2.97 days in child care: High levels of child care <u>quality</u> were related to less parent-rated <u>externalizing behaviors one year later (age 3)</u> = Strengthening effect
- Discussion: Different results for parent- and teacher-rated outcomes

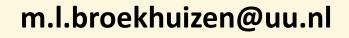


Take home message

Findings highlight the beneficial impact of child care quality on child social competence in child care

Only when children spent considerable time in care, high quality child care was related to less externalizing behavior at home

Important to consider child care quantity when investigating effects of child care quality







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