

Supplemental Information

Characteristics of Interaction Between Caregivers and Children with Chronic Diseases in Oral Medication-Taking Situations: A Validation Study of the Interaction Rating Scale

**Takuya Yasumoto^{a,b}, Tomoka Yamamoto^a, Atsuko Ishii^c, Hiroko Okuno^d, Haruo
Fujino^{a,e}**

a United Graduate School of Child Development, Osaka University, Suita, Osaka, Japan

b School of Nursing, Sugiyama Jogakuen University, Nagoya, Aichi, Japan

c Molecular Research Center for Children's Mental Development, United Graduate School of
Child Development, Osaka University, Suita, Osaka, Japan

d Graduate School of Nursing of Health and Human Science, Osaka Metropolitan University,
Habikino, Osaka, Japan

e Graduate School of Human Sciences, Osaka University, Suita, Osaka, Japan

Maternal and Child Health Journal

doi: 10.1007/s10995-025-04099-2

Supplemental Table S1. Descriptive statistics of the IRS of the subgroups divided by age group (36 months)

	Age < 36 months (n = 43)			Age ≥ 36 months (n = 23)		
IRS	Cronbach's alpha	Test-retest reliability, ICC (95% CI), n = 14	Inter-rater reliability, ICC (95% CI), n = 12	Cronbach's alpha	Test-retest reliability, ICC (95% CI), n = 6	Inter-rater reliability, ICC (95% CI), n = 5
Child	0.86	0.47 (-0.04-0.79)	0.78 (0.39-0.93)	0.88	0.86 (0.37-0.98)	- ^a
Caregiver	0.85	0.72 (0.34-0.90)	0.76 (0.37-0.93)	0.86	0.88 (0.45-0.98)	0.95 (0.53-0.99)
Total	0.88	0.67 (0.27-0.88)	0.80 (0.43-0.94)	0.91	0.91 (0.55-0.99)	0.99 (0.82-0.99)

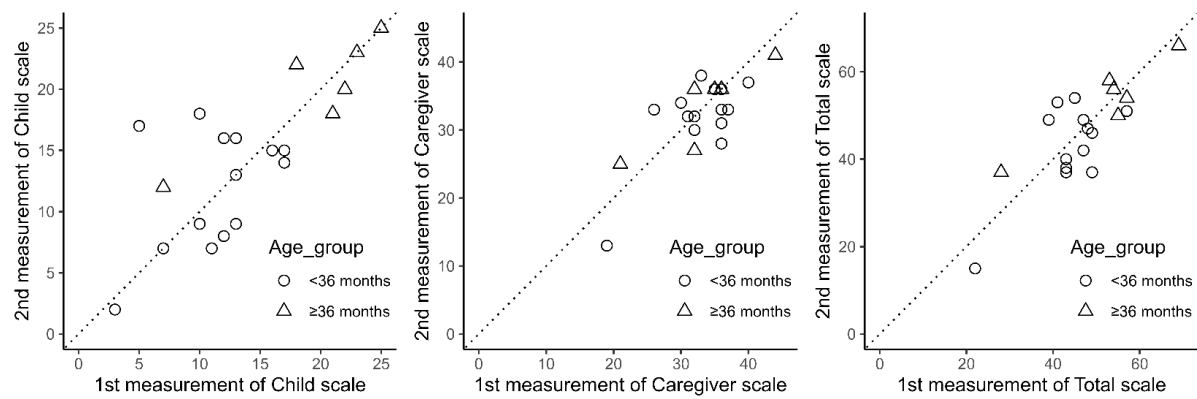
^aThe ICC value of this cell were not computed due to an exact match.

IRS: Interaction Rating Scale

ICC: Intraclass correlation coefficient

CI: Confidence Interval

Supplemental Figure S1 top

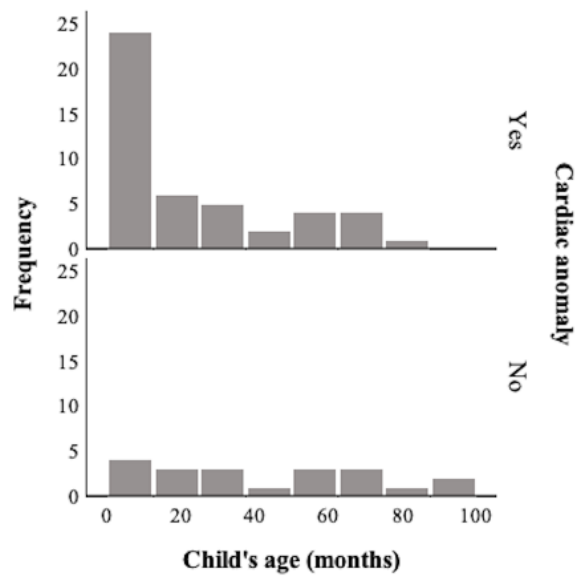


Supplemental Figure S1

Consistency between first and second measurements of the Interaction Rating Scale

Circles show data from children under 36 months of age. Triangles show data from children aged 36 months or older. The dot line is the reference line ($y = x$).

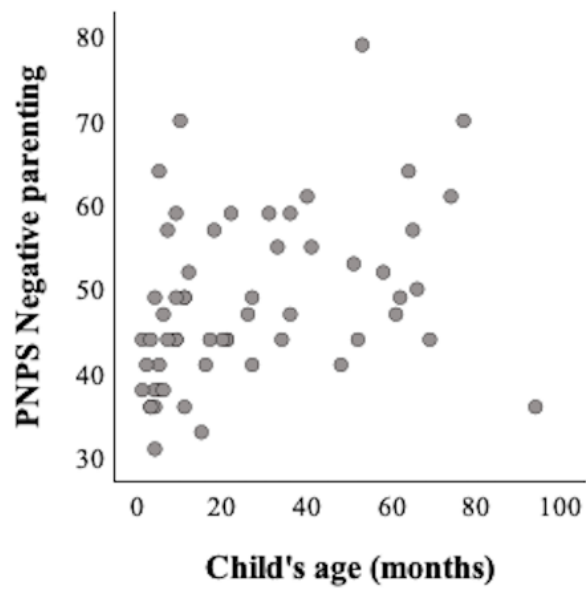
Supplemental Figure S2 top



Supplemental Figure S2. Distribution of the age in children with and without cardiac anomaly

This histogram shows the respective frequencies in each group.

Supplemental Figure S3 top



Supplemental Figure S3. Correlation with child's age and the PNPS Negative parenting score