

APPENDIX B

Table 4. Outcome measures.

Program Name	Measuring Instrument	Outcome Variable	Time Effect Experiment Group	Time Effect Control Group	Program Effect	Reference Study
1. VIPP-SD	CBCL	Child externalizing behavior: Overactive	0.39	0.23	0.25	Van Zeijl et al., 2006
		Oppositional	0.26	0.14	0.12	
		Aggressive	0.08	0.11	0.04	
	7 point Rating scales	Maternal sensitivity	0.09	0.08	0.00	
2. VIPP-SD	CBCL	Child externalizing behavior	0.34	0.15	0.06	Bakermans-Kranenburg, van IJzendoorn, Pijlman, Mesman, and Juffer, 2008
		Overactive	0.36	0.26	0.20	
		Oppositional	0.33	0.12	0.03	
		Aggressive	0.13	0.03	0.01	
	Observed task	Maternal positive discipline	0.26	0.22	0.50	
	ICQ	Child temperament	na	na	na ^a	Bakermans-Kranenburg, van IJzendoorn, Mesman, Alink, and Juffer, 2008
	DRD4- genotyping	DNA-samples	na	na	na ^a	
	Saliva samples	Cortisol production	na	na	na ^a	
3. Pre-VIPP	Rating scales for sensitivity	Maternal sensitivity	0.14	0.05	0.49	Juffer et al., 2005
	SSP	Maternal cooperation	0.30	0.11	0.84	
		Attachment (disorganization score)	na	na	0.62	
4. Pre-VIPP	Rating scales for sensitivity cooperation	Maternal sensitivity	0.14	0.07	0.42	Juffer et al., 1997
	Infant Exploratory	Maternal cooperation	0.34	0.27	0.87	
	Competence	Infant exploration Quality	3.07	1.98	0.35	

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Program Name	Measuring Instrument	Outcome Variable	Time Effect Experiment Group	Time Effect Control Group	Program Effect	Reference Study
5. VIPP and VIPP-R	Attachment security score Rating Scale for Sensitivity (observation)	Attachment Maternal sensitivity	0.10 0.46	na na	VIPP 0.29 VIPP-R 0.08	Klein Velderman, Bakermans-Kranenburg, Juffer, and van IJzendoorn, 2006 Klein Velderman, Bakermans-Kranenburg, Juffer, van IJzendoorn, Mangelsdorf, et al., 2006
6. VIPP-AUTI	EAS PEQ PDH	Maternal sensitivity Maternal structuring Maternal non-intrusiveness Child-responsiveness Child-involvement Maternal self-efficacy Daily hassles/strains and stresses	0.12 0.36 0.22 0.17 0.52 0.04	0.13 0.22 0.13 0.07 0.12 0.07	0.01 0.13 0.04 0.02 0.45 0.13	Poslawsky et al., 2014
7. VIPP-TM	EAS Discipline rating scales Supportive presence scale	Maternal sensitivity Maternal non-intrusiveness Maternal physical discipline Laxness (parental discipline strategies) Maternal supportive presence	0.55 1.29 0.79 0.35 0.54	0.03 0.41 0.47 0.53 0.47	0.47 0.62 0.19 0.24 0.09	Yagmur et al., 2014

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Program Name	Measuring Instrument	Outcome Variable	Time Effect Experiment Group	Time Effect Control Group	Program Effect	Reference Study
8. VIPP	Rating scale for sensitivity Attachment Q-set	Maternal sensitivity	1.54	0.68	0.79	Kalinauskiene et al., 2009
		Daily hassles (intensity)	0.02	0.28	0.41	
		Daily hassles (frequency)	0.78	0.12	0.80	
		Depression	0.36	0.10	0.28	
		Attachment security	na	na	0.00 ^a	
		Efficacy	na	na	0.31	
9. VIPP-SD	EAS	Positive parenting (total score)	0.46	0.18	0.27	Negrão et al., 2014
			0.27	0.15	0.27	
		Maternal sensitivity	0.63	0.42	0.56	
	EAS	Non-intrusiveness	0.68	0.07	0.51	
		Positive child behavior (total score)				
	FES	Responsiveness	0.72	0.07	0.52	
		Family relational functioning (total score)	0.43	0.50	0.65	
	Standardized observations	Cohesion	na	na	na ^a	Pereira et al., 2014
	DHQ	Maternal harsh discipline	na	na	na	
10. Pre-VIPP	Rating scale for sensitivity	Parenting stress				
	SSP	Maternal sensitivity	na	na	0.91	Bakermans-Kranenburg et al., 1998
11. PALS	Targeted maternal observed behaviors, rated	Attachment security	na	na	na ^a	
		Maternal sensitivity	na	na	0.49	Landry et al., 2006
		Maternal positive affect			0.83	
		Support of infant foci of attention			0.36	
					0.93	
		Maternal responsiveness			0.79	
		Language input			0.71	
		Labeling of objects			0.63	

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Program Name	Measuring Instrument	Outcome Variable	Time Effect Experiment Group	Time Effect Control Group	Program Effect	Reference Study
11. PALS <i>(continued)</i>		Labeling of actions			0.39	Landry et al., 2006
		Child's social cooperation	na	na	na	
		Maternal harsh voice tone	na	na	na	
		Maternal physical intrusiveness	na	na	na	
12. VF	NCATS	Parent Total Score	0.30	0.34	0.78	Magill-Evans et al., 2007
		Parental sensitivity to cues	0.09	0.57	0.60	
	PSOC	Social-emotional growth fostering	0.04	0.31	0.53	
		Cognitive growth fostering	0.50	0.10	0.70	
		Efficacy	0.40	0.47	0.19	Mendelsohn et al., 2007
		Satisfaction	0.02	0.16	0.07	
13. VIP	MDI	Cognitive development	na	na	0.26	
	CBCL	Total score	na	na	0.31	
		Externalizing			0.19	
		Internalizing			0.09	
	PLS-3	Child language	na	na	0.04	
	PSI	Parenting stress, total score	na	na	0.41	
	Parent-Child Dysfunctional Interaction Subscale	Parent-child interaction	na	na	0.24	
	Difficult Child Subscale					
	StimQ-T	Child behavior	na	na	0.22	
	CES-D	Parenting practices, total score	na	na	0.21	
		Maternal Depression,	na	na	0.17	

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total score						
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Program Name	Measuring Instrument	Outcome Variable	Time Effect Experiment Group	Time Effect Control Group	Program Effect	Reference Study
14. VF	SSP	Attachment security	na	na	na ^a	Moran et al., 2005
	MBQS	Maternal sensitivity	na	na	na ^a	
15. VF	SSP	Attachment	na	na	na ^a	Brisch et al., 2003
16. VF	Conflict Rating Scale	Mealtime conflict-score	na	na	na ^a	Stein et al., 2006
17. IG	Rating scale for sensitivity	Maternal sensitivity	1.29	0.33	0.62	Robert-Tissot et al., 1996
	Crittenden Experimental Index	Maternal controlling behavior			na	
	KIA/KIDIES Profile (observation)	Sleeping			na ^a	
		Cooperation			na	
		Behavior			na	
	R-interview	Aggressiveness			na	
		Self esteem	0.16	0.72	0.11	
18. VF	EPDS	Maternal depression	1.69	1.99	0.33	Bilszta et al., 2012
	NPI	Maternal conceptions of infant behavior	0.23	0.35	0.31	
	PSCS	Maternal social support	0.45	0.59	0.07	
	AAS	Attachment style	na	na	na	
19. VF	EAS	Maternal sensitivity	0.39	0.44	0.57	Van Doesum et al., 2008
	Parental sensitivity scale	Maternal non-intrusiveness	0.12	0.20	0.24	
		Maternal structuring	0.59	0.03	0.39	
		Maternal non-hostility	0.00	0.10	0.10	
		Child involvement	0.04	0.58	0.51	
		Child responsiveness	0.26	0.46	0.68	
	ITSEA	Infant social and emotional functioning:				
		Externalizing			0.09	

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<i>(continued)</i>		Internalizing			0.30	
		Dysregulation			0.08	
		Competence			0.63	
		Depression	0.56	0.52	0.17	
Program Name	Measuring Instrument	Outcome Variable	Time Effect Experiment Group	Time Effect Control Group	Program Effect	Reference Study
20. VF	CBCL	Externalizing	na	na	0.03	Moss et al., 2011
		Internalizing			0.12	
	SSP	Child attachment	na	na	na ^a	
	MBQS	Parental sensitivity	na	na	0.49	
21. VF	NCATS	Total Score	0.79	0.06	0.80	Koniak-Griffin et al., 1992
		Mother's subscale	0.79	0.03	1.04	
		Baby's subscale	0.50	0.06	0.06	
		Cognitive growth-fostering subscale	1.22	0.05	0.98	
		Responsiveness to parent subscale	0.57	0.16	0.08	
	SD-Self	Maternal attitudes	0.36	0.21	0.24	
	SD-Baby		1.17	0.04	0.84	
22. VF	CARE-Index	Maternal sensitivity	0.58	0.08	0.70	Svanberg et al., 2010
		Child cooperation	0.52	0.20	0.56	
		Child compulsive	0.05	0.29	0.26	
	EPDS	Depressive symptoms	na	na	na ^a	
	Self Esteem Questionnaire	Self-esteem	na	na	na ^a	
	GHQ-12	Psychological distress	na	na	na ^a	
	Parenting Stress Index	Stress	na	na	na ^a	
	Attachment	Attachment	na	na	na ^a	
23. VHT/ Orion	Questionnaire:	Parent-Child Positive Communication Index	2.25	0.14	0.92	Weiner et al., 1994
		Parent-Child Negative communication Index	0.55	0.16	0.43	
		Child Well-Being Index	0.66	0.38	0.39	

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Program Name	Measuring Instrument	Outcome Variable	Time Effect Experiment Group	Time Effect Control Group	Program Effect	Reference Study
24. VHT/VIG	BABY-KIPPPI	Parents feelings about: Volume of contact Volume of crying/symptom	5.14 0.60	3.83 1.44	0.39 0.08	Eliëns, 2005
25. VF	FAARS	Medical consumption Caregivers' relational schemas	na na	na na	1.98 na ^a	Smith et al., 2013
26. Marte Meo	RACS CBCL	Parent and child behavior Total score	na 0.63	na 0.01	na 0.60	Axberg et al., 2006
		Externalizing symptoms	0.52	0.09	0.28	
		Internalizing symptoms	0.48	0.16	0.60	
		Child behavior symptoms	0.54	0.10	0.82	
	CPRS	Child behavior symptoms				
	TRF	Total score	0.72	na	na ^a	
		Externalizing	0.86	na	na	
		Internalizing	0.14	na	na	
	CTRS	Child behavior problems in school	1.05	na	na	
27. VF	Scales of Infant Development and Ordinal Scales of Development	Development (mental and psychomotor)	na	na	0.72	Seifer et al., 1991
		Interaction:				
		Child disengage	0.21	0.91	0.21	
	Coding system for interactive dimensions	Maternal force	0.27	0.18	0.14	
		Child fussy	0.69	0.07	0.68	
		Maternal responsive	0.75	0.28	0.58	
		Child responsive	0.30	0.08	0.24	
		Maternal stimulating	0.77	0.36	0.72	
		Child spontaneous	1.05	0.90	0.30	

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Program Name	Measuring Instrument	Outcome Variable	Time Effect Experiment Group	Time Effect Control Group	Program Effect	Reference Study
28. IG modified	AMBIANCE	Total Score	1.13	0.11	1.31	Benoit et al., 2001
		Level of disrupted communication	1.22	0.37	1.17	
29. RFI	MBRS	Maternal responsiveness	0.66	1.45	2.33	Kim & Mahoney, 2005
		Maternal affect	1.40	1.18	2.63	
	CBRS	Child persistence	0.18	0.40	0.60	
		Child cooperation	0.12	0.37	0.72	
		Child affect	1.64	0.22	1.00	
		Child joint attention	0.73	0.76	0.08	
		Child initiation	0.99	0.79	0.31	
	PSI	Child temperament	0.19	0.33	1.14	
		Parenting stress related to parent-child relationship	0.66	0.23	0.05	

Note. Numerical data in the publications have been used or recalculated when possible; outcome data is based on pre-test and post-test; na = not available, e.g. numbers were missing or calculating not possible based on information in the publication; ^a = when numerical data was not available, the study is commented on below; as well as abbreviations:

- Study no. 2: The intervention proved to be effective in decreasing daily cortisol production in children having a specific gene set. Maternal insensitivity was associated with externalizing behaviors, but only in presence of the specific gene (Bakermans-Kranenburg, van IJzendoorn, Mesman, Alink, and Juffer, 2008).
- Study no. 8: Concerning attachment security there were no significant difference between the two groups at post-test, but the correlation between parental sensitivity and infant attachment security was strong in the control group as well as in the intervention group (Kalinauskiene et al., 2009).
- Study no. 9: Harsh discipline decreased in the intervention group (not in the control group), only under conditions of higher parenting stress (Pereira et al., 2014).
- Study no. 10: No significant higher percentage of securely attached infants in the intervention group than in the control group (Bakermans-Kranenburg et al., 1998).
- Study no. 14: Mothers participating in the intervention program were more likely than mothers in the comparison group to be in secure attachment relationships with their infants at 12 months. The overall effect was reported to be modest. The data indicated that the intervention was effective in promoting a secure infant-mother attachment relationship only when the mother was not classified as

unresolved/disoriented on the AAI. The result indicated that the intervention had a positive impact on the quality of mother-infant interactions (Moran et al., 2005).

- Study no. 15: The group differences in the result did not reach a statistical significance between intervention group and a control group concerning attachment representation, but showed a tendency (the control group had a high percentage of children with a secure attachment and the experimental group had a high percentage of infants with a dismissing classification of attachment representations) (Brisch et al., 2003).
- Study no. 16: The experimental group exhibited significantly less mealtime conflicts and greater infant autonomy during mealtimes than the control group (Stein et al., 2006).
- Study no. 17: The results showed that the infants were more cooperative, less compulsive-compliant, less difficult, less unresponsive, and displayed a more positive affect during interaction at post-test (Robert-Tissot et al., 1996).
- Study no. 20: The study presented significant results regarding child attachment security, as well as a reduction in child disorganization (Moss et al., 2011).
- Study no. 22: There were no significant differences between intervention and control group when it comes to maternal depressive symptoms, self-esteem, parenting stress and psychological distress. There was a trend reported towards more secure attachment in the intervention group (Svanberg et al., 2010).
- Study no. 25: The study presents a path-analysis and conclusion is drawn that provides additional (even if weak) support that VF improves outcomes over and above what other interventions provides (Smith et al., 2013).
- Study no. 26: On the TRF a significant reduction was found concerning externalizing behaviour, whereas on the TRF internalizing syndrome scale change was non-significant (Axberg et al., 2006).
- Study no. 28: There were differences between the intervention group and control group concerning decrease in Atypical parental behaviours and decrease in level of Disrupted communication, corresponding to medium and large effect sizes when presented in w^2 (Benoit et al., 2001).

Explanations of abbreviations, for references we refer to the individual publications:

CBCL	Child Behaviour Checklist
ICQ	Infant Characteristics Questionnaire
SSP	Strange Situation Procedure
EAS	Emotional Availability Scales
PEQ	Parent Efficacy Questionnaire
PDH	Parenting Daily Hassles
FES	Family Environment Scale
DHQ	Daily Hassles Questionnaire
NCATS	Nursing Child Assessment Teaching Scale
MDI	Mental development Index

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PLS-3	Preschool Language Scale
PSI	Parenting Stress Index
StimQ-T	StimQ-Toddler
CES-D	Centre for Epidemiologic Studies-Depression Scale
MBQS	The Maternal Behaviour Q-set
R-Interview	Representation Interview
EPDS	Edinburgh Postnatal Depression Scale
PSCS	Parenting Sense of Competence Scale
AAS	Adult Attachment Scale
ITSEA	The Infant Toddler Social and Emotional Assessment
BDI	Beck Depression Inventory
SD-Self/Baby	Myself as Mother and My Baby
GHQ-12	General Health Questionnaire
FAARS	Family Affective Attitude Rating Scale
CPRS	Connors' Parents Rating Scale
CTRS	Connors' Teacher Rating Scale
TRF	Teachers Report Form
AMBIANCE	Atypical Maternal Behavior Instrument for Assessment and Classification
MBRS	Maternal Behavior Rating Scale
PSOC	Parenting Sense of Competence
NPI	Neonatal Perception Inventory