

Early Home Visiting Delivery Model and Maternal and
Child Mental Health at Primary School Age

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Online Appendix

Online Appendix Table A: Balance Table Sample DIPS

Baseline Characteristics (1)	Baseline Diff. TG vs CG Continuous Model		Baseline Diff. TG vs CG Tandem Model		Baseline Diff. CM vs TM	
	Difference (2)	p-value (3)	Difference (4)	p-value (5)	Difference (6)	p-value (7)
Risk factor: underage	0.01	0.87	0.00	0.88	-0.02	0.67
Risk factor: low income	0.03	0.63	-0.09	0.29	0.02	0.78
Risk factor: unwanted pregnancy	0.02	0.43	-0.03	0.67	0.00	0.93
Risk factor: social isolation	-0.03	0.69	0.00	0.90	0.00	0.83
Risk factor: custodial care	0.08	0.08	0.02	0.78	0.07	0.08
Risk factor: loss of significant other	-0.12	0.13	-0.13	0.21	0.01	0.81
Risk factor: violence in pregnancy	-0.02	0.76	0.00	0.93	0.04	0.14
Risk factor: mental illness	-0.09	0.27	-0.23	0.01	-0.04	0.46
Risk factor: aggression	-0.09	0.21	-0.06	0.15	-0.02	0.64
Risk factor: depression (DASS)	0.03	0.43	0.03	0.47	0.02	0.65
Risk factor: anxiety (DASS)	0.02	0.81	-0.07	0.35	0.06	0.08
Risk factor: stress (DASS)	-0.08	0.04	0.10	0.38	0.01	0.78
Risk factor: low education status	0.08	0.41	0.07	0.56	0.04	0.59
Risk factor: no partnership	0.06	0.25	0.15	0.12	-0.01	0.83
Teenager (below 20 years)	-0.02	0.86	0.00	1.00	-0.02	0.83
Lives alone	0.08	0.05	-0.17	0.06	-0.05	0.33
Lives with partner or husband	-0.02	0.69	0.02	0.85	0.05	0.43
Marital status: married	0.09	0.04	0.09	0.09	0.02	0.59
First pregnancy	-0.02	0.76	-0.01	0.54	0.03	0.46
Smokes	-0.07	0.66	0.02	0.91	0.04	0.70
Smokes daily	-0.06	0.54	-0.01	0.94	0.04	0.41
Student	-0.05	0.49	-0.03	0.62	-0.01	0.86
Medical high risk pregnancy	-0.02	0.55	0.06	0.48	-0.05	0.15
Self-efficacy	0.01	0.85	0.00	0.98	-0.02	0.73
Weight before pregnancy	0.45	0.86	3.53	0.19	2.00	0.20
Height	0.01	0.15	-0.02	0.17	0.01	0.47
BMI	-0.17	0.83	1.70	0.10	0.33	0.58
Obesity, BMI > 30	-0.01	0.85	0.08	0.15	0.02	0.66
Underweight, BMI < 17	0.00	0.97	-0.04	0.26	-0.03	0.16
Attachment	0.02	0.79	-0.08	0.20	0.03	0.48
Parental self-efficacy	0.04	0.18	-0.01	0.73	0.04	0.43
Household size	-0.12	0.59	0.19	0.38	0.00	0.99
Social class index	0.17	0.61	-0.33	0.60	-0.08	0.71
Year affiliated: 2006	0.00		0.04	0.07	-0.05	0.05
Year affiliated: 2007	0.03	0.39	-0.03	0.68	0.00	0.97
Year affiliated: 2008	-0.02	0.52	0.06	0.46	-0.01	0.69
Year affiliated: 2009	-0.01	0.88	-0.07	0.21	0.06	0.61
Month affiliated: January	0.00	0.84	0.05	0.37	-0.01	0.73
Month affiliated: February	-0.02	0.55	0.01	0.78	0.03	0.36
Month affiliated: March	-0.02	0.60	-0.01	0.92	0.02	0.51
Month affiliated: April	0.10	0.05	-0.10	0.09	0.04	0.41
Month affiliated: May	-0.01	0.92	0.01	0.92	-0.01	0.77
Month affiliated: June	0.00	0.76	0.08	0.02	-0.04	0.26
Month affiliated: July	0.06	0.56	0.00	0.90	0.08	0.04
Month affiliated: August	-0.07	0.14	0.03	0.53	0.00	0.93
Month affiliated: September	-0.06	0.04	0.04	0.49	-0.03	0.40
Month affiliated: October	0.04	0.18	0.01	0.69	0.01	0.67
Month affiliated: November	0.02	0.52	-0.07	0.03	-0.04	0.25
Month affiliated: December	-0.04	0.20	-0.05	0.32	-0.04	0.33
Number of weeks in pregnancy	0.02	0.67	0.02	0.83	-0.03	0.67
Mother non-German nationality	0.01	0.77	-0.02	0.39	0.08	0.06
Risk factors Total	-0.38	0.10	-0.23	0.73	0.26	0.18
<i>Observations</i>		150		129		279

Notes: Columns 2, 4 and 6 present the coefficients of regressions of the variables listed in the first column on: the treatment dummy for the CM sample (column 2); the treatment dummy for the TM sample (column 4); a dummy for the CM (versus the TM, column 6). Columns 3, 5 and 7 present the corresponding p-values. Standard errors are clustered at the site level. Samples restricted to observations with DIPS outcomes. TG = Treatment Group. CG = Control Group. Diff. = Difference. CM = Continuous Model. TM = Tandem Model. All risk factors are binary variables. *Risk factor: low income* is 1 if participants' net household income is below 1250 Euro. The characteristic *Smokes* is a categorical variable with the outcomes never, sometimes, daily. *Attachment* is a characteristic measuring feelings about the expected baby by the Maternal Antenatal/Postnatal Attachment Questionnaire using a 4-point Likert scale with 19 items. *Parental self-efficacy* is a continuous characteristic obtained by the parental expectations survey (Reece and Harkless, 1998) using a 4-point Likert scale with 25 items. *Self-efficacy* characteristic obtained by the German adaptation of the Generalized Self-Efficacy Scale (Dumont et al., 2000) using a 4-point Likert scale with 10 items.

Online Appendix Table B: Balance Table Sample DIA-X

Baseline Characteristics (1)	Baseline Diff. TG vs CG Continuous Model		Baseline Diff. TG vs CG Tandem Model		Baseline Diff. CM vs TM	
	Difference (2)	p-value (3)	Difference (4)	p-value (5)	Difference (6)	p-value (7)
Risk factor: under age	-0.01	0.75	0.03	0.41	-0.03	0.55
Risk factor: low income	0.02	0.66	-0.07	0.50	0.02	0.80
Risk factor: unwanted pregnancy	0.00	0.74	-0.01	0.87	0.02	0.81
Risk factor: social isolation	-0.02	0.49	0.02	0.61	-0.01	0.72
Risk factor: custodial care	0.01	0.81	0.04	0.59	0.09	0.08
Risk factor: loss of significant other	-0.12	0.08	-0.08	0.33	0.02	0.40
Risk factor: violence in pregnancy	-0.01	0.81	0.03	0.50	0.05	0.11
Risk factor: mental illness	-0.11	0.18	-0.16	0.03	-0.02	0.72
Risk factor: aggression	-0.09	0.09	-0.06	0.05	-0.01	0.88
Risk factor: depression (DASS)	-0.01	0.86	0.00	0.90	0.03	0.47
Risk factor: anxiety (DASS)	0.05	0.24	-0.06	0.31	0.09	0.03
Risk factor: stress (DASS)	-0.09	0.01	0.07	0.59	-0.04	0.24
Teenager (below 20 years)	-0.08	0.32	-0.02	0.73	-0.03	0.70
Risk factor: low education status	0.07	0.43	0.03	0.71	0.03	0.74
Risk factor: no partnership	0.00	0.93	0.12	0.05	-0.03	0.60
Lives alone	0.02	0.61	-0.20	0.01	-0.06	0.22
Lives with partner or husband	0.05	0.32	0.06	0.42	0.07	0.36
Marital status: married	0.10	0.05	0.08	0.11	0.03	0.44
First pregnancy	-0.03	0.54	-0.07	0.13	0.02	0.57
Smokes daily	-0.03	0.64	-0.05	0.65	0.03	0.55
Smokes	-0.03	0.66	-0.07	0.73	0.06	0.62
Student	-0.06	0.03	-0.05	0.20	-0.02	0.59
Medical high risk pregnancy	-0.02	0.64	0.09	0.28	-0.06	0.20
Self-efficacy	0.03	0.64	0.00	0.97	0.02	0.78
Weight before pregnancy	0.37	0.88	3.12	0.19	2.95	0.03
Height	0.01	0.14	-0.01	0.29	0.01	0.46
BMI	-0.23	0.75	1.46	0.07	0.71	0.18
Obesity, BMI > 30	-0.01	0.81	0.06	0.20	0.03	0.32
Underweight, BMI < 17	-0.01	0.66	-0.06	0.01	-0.02	0.29
Attachment	0.07	0.24	-0.09	0.14	0.06	0.12
Parental self-efficacy	0.08	0.01	-0.04	0.63	0.06	0.23
Household size	-0.10	0.46	0.12	0.56	0.08	0.74
Social class index	0.13	0.68	-0.01	0.99	0.03	0.90
Year affiliated: 2006	0.00	0.00	0.04	0.23	-0.06	0.04
Year affiliated: 2007	0.07	0.02	-0.01	0.86	0.00	1.00
Year affiliated: 2008	-0.05	0.33	-0.01	0.89	0.01	0.71
Year affiliated: 2009	-0.02	0.81	-0.02	0.77	0.05	0.64
Month affiliated: January	0.00	0.93	0.04	0.48	-0.04	0.35
Month affiliated: February	-0.02	0.56	0.04	0.29	0.04	0.17
Month affiliated: March	-0.05	0.30	-0.05	0.52	0.01	0.81
Month affiliated: April	0.06	0.04	-0.07	0.14	0.05	0.29
Month affiliated: May	-0.01	0.84	0.01	0.86	-0.01	0.74
Month affiliated: June	-0.01	0.78	0.06	0.07	0.00	0.98
Month affiliated: July	0.06	0.45	-0.02	0.64	0.07	0.04
Month affiliated: August	-0.06	0.10	0.05	0.19	0.01	0.73
Month affiliated: September	-0.01	0.75	0.05	0.46	-0.03	0.41
Month affiliated: October	0.03	0.27	0.00	0.93	-0.03	0.16
Month affiliated: November	0.04	0.29	-0.06	0.04	-0.04	0.18
Month affiliated: December	-0.04	0.21	-0.05	0.37	-0.02	0.55
Number of weeks in pregnancy	0.04	0.52	0.07	0.12	0.00	0.97
Mother non-German nationality	0.00	0.95	-0.02	0.66	0.06	0.13
Risk factors total	-0.60	0.03	-0.07	0.92	0.28	0.29
<i>Observations</i>		162		144		306

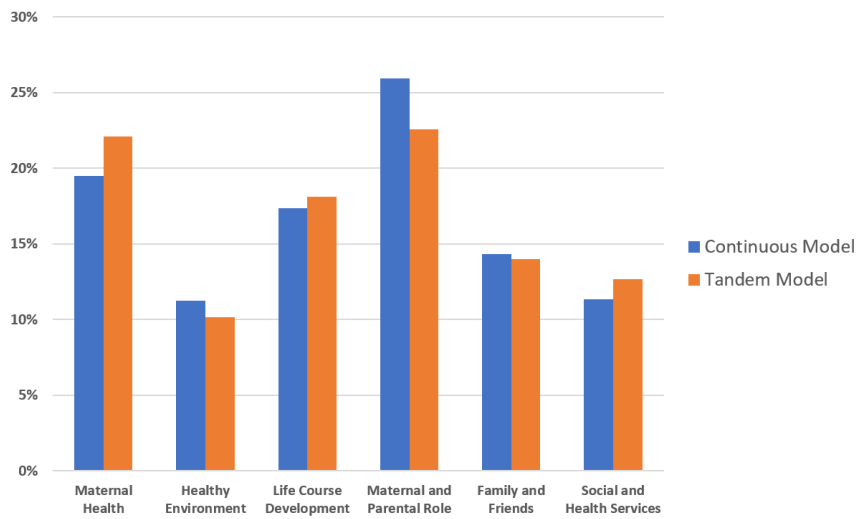
Notes: Columns 2, 4 and 6 present the coefficients of regressions of the variables listed in the first column on: the treatment dummy for the CM sample (column 2); the treatment dummy for the TM sample (column 4); a dummy for the CM (versus the TM, column 6). Columns 3, 5 and 7 present the corresponding p-values. Standard errors are clustered at the site level. Samples restricted to observations with DIPS outcomes. TG = Treatment Group. CG = Control Group. Diff. = Difference. CM = Continuous Model. TM = Tandem Model. All risk factors are binary variables. *Risk factor: low income* is 1 if participants' net household income is below 1250 Euro. The characteristic *Smokes* is a categorical variable with the outcomes never, sometimes, daily. *Attachment* is a characteristic measuring feelings about the expected baby by the Maternal Antenatal/Postnatal Attachment Questionnaire using a 4-point Likert scale with 19 items. *Parental self-efficacy* is a continuous characteristic obtained by the parental expectations survey (Reece and Harkless, 1998) using a 4-point Likert scale with 25 items. *Self-efficacy* characteristic obtained by the German adaptation of the Generalized Self-Efficacy Scale (Dumont et al., 2000) using a 4-point Likert scale with 10 items.

Online Appendix Table C: Number of Home Visitors, by Delivery Model

Tandem Model				Continuous Model			
Number of Home visitors in the family	Freq.	Percent		Number of Home visitors in the family	Freq.	Percent	
1	4	2.65		1	96	57.14	
2	13	8.61		2	56	33.33	
3	92	60.93		3	8	4.76	
4	21	13.91		4	6	3.57	
5	14	9.27		5	2	1.19	
6	5	3.31					
7	2	1.32					
N	151			N	168		

Notes: The table shows how many families were visited by how many visitors, separately for each deliver model. The data includes all families allocated to the Continuous Model or to the Tandem Model at baseline, excluding families from the site where both delivery models were implemented. Source: Standardized encounter forms filled in by the home visitors for each home visit.

Online Appendix Figure A: Difference in Visit Content by Model Type



Notes: The figure shows the percentage of home visits on average devoted to each of the six topics covered by the program curriculum, separately for each delivery model. The dataset includes every home visit for all 319 families (168 in the CM and 151 in the TM) allocated to the Continuous Model or to the Tandem Model at baseline, excluding families from the site where both delivery models were implemented. Source: Standardized encounter forms filled in by the home visitors for each home visit.