Supplementary Table 1. Differences between the participants included in the analytic sample and the non-responders of the PREDO cohort that were not included in the analyses.

	Participants	Non-participants	
	(n=2636)	(n=2138)	
	Mean (SD)/No. (%)	Mean (SD)/No. (%)	P-value
MATERNAL CHARACTERISTICS			
Age at childbirth, mean (SD), years	31.90 (4.62)	31.00 (5.16)	<.001
Unknown, no. (%)		10 (0.5)	
Education level, no. (%)			<.001
Primary or secondary	745 (28.3)	820 (38.4)	
Lower tertiary	831 (31.5)	449 (21.0)	
Upper tertiary	1060 (40.2)	531 (24.8)	
Unknown	-	338 (15.8)	
Marital status, no. (%)			<.001
Single	50 (1.9)	82 (3.8)	
Married or cohabiting	2582 (98.0)	1988 (93.0)	
Unknown	4 (0.2)	68 (3.2)	
Parity, no. (%)			<.001
Primiparous	1102 (41.8)	753 (35.2)	
Multiparous	1534 (58.2)	1385 (64.8)	
Substance use during early pregnancy, no. (%)			.01
Yes	544 (20.6)	375 (17.5)	
No	2092 (79.4)	1738 (81.3)	
Unknown	-	25 (1.2)	
Cardio-metabolic pregnancy conditions ^{a)} , no. (%)			.004
Yes	1092 (41.4)	972 (45.5)	
No	1358 (51.5)	988 (46.2)	
Only before current pregnancy	183 (6.9)	154 (7.2)	
Unknown	3 (0.1)	24 (1.1)	
Any mental disorder ^{b)} , no. (%)			
Diagnosed before or during pregnancy (yes)	211 (8.0)	286 (13.4)	<.001
No	2425 (92.0)	1832 (85.7)	
Unknown	-	20 (0.9)	
Diagnosed by the late childhood follow-up (yes)	386 (14.6)	475 (22.4)	<.001
No	2250 (85.4)	1643 (77.6)	
Unknown	-	20 (0.9)	
Depressive symptoms (CES-D), mean (SD)	11.39 (6.36)	11.72 (6.53)	.21
Below clinically relevant symptoms (<16), no. (%)	2073 (78.6)	596 (27.9)	.75
Clinically relevant symptoms (≥16), no. (%)	563 (21.4)	167 (7.8)	
Unknown, no. (%)	-	1375 (64.3)	

Supplementary Table 1 (continued)			
Positive mental health during pregnancy, mean (SI))		
Positive affect (PANAS)	30.15 (6.74)	30.76 (6.84)	.03
Unknown, no. (%)	-	1374 (64.3)	
Curiosity (STAI)	31.46 (4.84)	31.23 (4.98)	.24
Unknown, no. (%)	-	1374 (64.3)	
Social support (VAS)	44.37 (11.03)	43.68 (11.83)	.15
Unknown, no. (%)	-	1372 (64.2)	
CHILD CHARACTERISTICS			
Sex, no. (%)			.07
Girl	1291 (49.0)	982 (45.9)	
Boy	1345 (51.0)	1139 (53.3)	
Unknown	-	17 (0.8)	
Birth weight, mean (SD), grams	3522.95 (514.00)	3543.80 (534.88)	.17
Unknown, no. (%)	7 (0.3)	26 (0.5)	
Gestational age at birth, mean (SD), weeks	39.91 (1.55)	39.86 (1.67)	.31
Unknown, no. (%)	-	4 (0.2)	

P-value for statistical difference between participants and non-participants when including participants with available data. SD=Standard deviation. CES-D=Center for Epidemiologic Studies Depression Scale.

PANAS=Positive and Negative Affect Schedule. STAI=Spielberger State Anxiety Inventory. VAS=Visual Analogue Scale. CBCL=Child Behavior Checklist. a) Cardio-metabolic pregnancy conditions included early pregnancy body mass index [BMI]≥25kg/m2, chronic hypertension, preeclampsia, gestational hypertension or unspecified hypertension in current pregnancy [ICD-10: I1, 010-011, O13-O16], and/or type 1, type 2 or gestational diabetes [ICD-10: E08-E14, O24]. b) All mental and behavioral disorder diagnoses classified using the International Classification of Diseases, 8th (ICD-8; codes 290-315) and 9th (ICD-9; codes 290-319) Revisions and the International Statistical Classification of Diseases and Related Health Problems, 10th (ICD-10) Revision (codes F00-F99).

Supplementary Table 2. Associations between the covariates and total psychiatric problems among children in early childhood and in late childhood.

	Total problems									
	I	Early childhood	ì		Late childhood					
	В	95%CI	p	В	95%CI	p				
MATERNAL CHARACTERISTICS										
Age at childbirth (years)	-0.23	-0.31, -0.15	<.001	-0.17	-0.27, -0.08	<.001				
Education level										
Upper tertiary	[ref]			[ref]						
Lower tertiary	1.23	0.34, 2.12	.01	2.54	1.51, 3.57	<.001				
Primary or secondary	1.50	0.59, 2.42	.001	3.53	2.43, 4.64	<.001				
Marital status										
Married/cohabiting	[ref]			[ref]						
Single parent	0.28	-2.51, 3.07	.84	4.76	1.41, 8.10	.01				
Parity										
Primiparity	[ref]			[ref]						
Multiparity	-3.18	-3.93, -2.44	<.001	-2.68	-3.58, -1.77	<.001				
Cardio-metabolic pregnancy conditions ^{a)}										
No	[ref]			[ref]						
Yes	0.40	-0.38, 1.19	.32	0.84	-0.09, 1.77	.08				
Other	-0.35	-1.82, 1.12	.64	-0.40	-2.23, 1.43	.67				
Substance use during early pregnancy										
No	[ref]			[ref]						
Yes	0.92	-0.01, 1.85	.05	1.11	0.002, 2.23	.05				
CHILD CHARACTERISTICS										
Sex										
Girl	[ref]			[ref]						
Boy	1.39	0.64, 2.14	<.001	2.40	1.51, 3.29	<.001				
Age at follow-up	-0.59	-1.12, -0.06	.03	-0.11	-0.67, 0.45	.69				
Birth weight (grams)	-0.001	-0.002, 0.000	.001	-0.001	-0.001, 0.000	.20				
Gestational age at birth (weeks)	-0.20	-0.44, 0.04	.11	0.05	-0.25, 0.34	.76				

CI=Confidence Interval. a) Cardio-metabolic pregnancy conditions included early pregnancy body mass index [BMI]≥25kg/m2, chronic hypertension, preeclampsia, gestational hypertension or unspecified hypertension in current pregnancy [ICD-10: I1, 010-011, O13-O16], and/or type 1, type 2 or gestational diabetes [ICD-10: E08-E14, O24]. b) All mental and behavioral disorder diagnoses classified using the International Classification of Diseases, 8th (ICD-8; codes 290-315) and 9th (ICD-9; codes 290-319) Revisions and the International Statistical Classification of Diseases and Related Health Problems, 10th (ICD-10) Revision (codes F00-F99).

Supplementary Table 3. Associations between the indices of negative maternal mental health and total psychiatric problems among children in early childhood and in late childhood.

	Total problems								
	E	Carly childho	ood	Ι	Late childhood				
	В	95%CI	p	В	95%CI	p			
Depressive symptoms during pregnancy (continuous CES-D									
score)	2.87	2.51, 3.22	<.001	3.35	2.93, 3.78	<.001			
Mental disorder ^{a)} before or during pregnancy									
No	[ref]			[ref]					
Yes	1.18	-0.18, 2.55	.09	3.25	1.58, 4.92	<.001			
Clinically relevant depressive symptoms during pregnancy									
and/or mental disorder ^{a)} before or during pregnancy									
No	[ref]			[ref]					
Yes	4.23	3.39, 5.06	<.001	4.87	3.86, 5.88	<.001			
Clinically relevant depressive symptoms during pregnancy									
and/or mental disorder ^{a)} by early childhood/late childhood									
follow-up									
No	[ref]			[ref]					
Yes	4.14	3.32, 4.96	<.001	4.79	3.83, 5.74	<.001			

CI=Confidence Interval. CES-D=Center for Epidemiologic Studies Depression Scale. a) All mental and behavioral disorder diagnoses classified using the International Classification of Diseases, 8th (ICD-8; codes 290-315) and 9th (ICD-9; codes 290-319) Revisions and the International Statistical Classification of Diseases and Related Health Problems, 10th (ICD-10) Revision (codes F00-F99).

Supplementary Table 4. Standardized mean scores (SD units), standard deviations and group differences of positive affect, curiosity, social support, and their composite score in the groups of women with and without clinically relevant depressive symptoms during pregnancy and with and without mental and behavioral disorders diagnosed before the child's birth.

	Mate	ernal (•	vant depressive s pregnancy	Maternal mental and behavioral disorders diagnosed before the child's birth							
	CES-D<16 CES-D≥16 Difference between groups N							macac	Hac diag	masas	Difference		
	CES-D<16 CES-D≥16				Mean	reen groups	No ulag	iluses	ilas ulaş	znoses	groups Mean		
	Mean	SD	Mean	SD	difference p		Mean SD		Mean SD		difference	p	
Positive mental health composite score	0.28	0.85	-1.05	0.78	1.33	<.001	0.04	0.99	-0.44	1.05	0.47	<.001	
Positive affect (PANAS)	0.22	0.94	-0.81	0.79	1.03	<.001	0.03	0.99	-0.33	1.01	0.36	<.001	
Curiosity (STAI)	0.32	0.79	-1.17	0.80	1.49	<.001	0.05	0.98	-0.52	1.10	0.57	<.001	
Social support (VAS)	0.14	0.96	-0.53	0.97	0.68	<.001	0.02	0.99	-0.19	1.06	0.20	.004	

SD=Standard deviation. T=T test for mean difference. P value refers to the significance of the difference between group means. PANAS=Positive and Negative Affect Schedule. STAI=Spielberger State Anxiety Inventory. VAS=Visual Analogue Scale.

Supplementary Table 5. Full model of the associations of positive maternal mental health and the covariates with total psychiatric problems among children in early childhood and in late childhood in Model 2.

	Total problems									
	E	arly childhoo	d		Late childhoo	d				
	В	95%CI	p	В	95%CI	p				
Positive maternal mental health composite score	-1.37	-1.79, -0.95	<.001	-1.75	-2.24, -1.26	<.001				
Maternal age at childbirth (years)	-0.11	-0.19, -0.03	.01	-0.05	-0.15, 0.05	.33				
Education level										
Upper tertiary	[ref]			[ref]						
Lower tertiary	0.55	-0.32, 1.42	.21	2.04	1.03, 3.05	<.001				
Primary or secondary	0.98	0.09, 1.87	.03	3.13	2.05, 4.21	<.001				
Marital status										
Married/cohabiting	[ref]			[ref]						
Single parent	2.02	-0.68, 4.71	.14	-1.84	-5.07, 1.38	.26				
Parity										
Primiparity	[ref]			[ref]						
Multiparity	3.57	2.78, 4.36	<.001	3.35	2.40, 4.30	<.001				
Cardio-metabolic pregnancy conditions ^{a)}										
No	[ref]			[ref]						
Yes	0.28	-0.49, 1.04	.48	0.46	-0.45, 1.37	.32				
Other	0.18	-1.25, 1.60	.81	-0.10	-1.85, 1.66	.92				
Substance use during early pregnancy										
No	[ref]			[ref]						
Yes	0.97	0.07, 1.86	.04	1.19	0.12, 2.26	.03				
Clinically relevant depressive symptoms										
during pregnancy and/or mental disorder b) by										
early childhood/late childhood follow-up										
No	[ref]			[ref]						
Yes	2.50	1.57, 3.43	<.001	2.78	1.72, 3.83	<.001				
Child sex										
Girl	[ref]			[ref]						
Boy	1.49	0.77, 2.22	<.001	2.49	1.63, 3.35	<.001				
Child age at follow-up	-0.77	-1.28, -0.26	.003	-0.37	-0.91, 0.17	.18				
Child birth weight (grams)	-0.001	-0.001, 0.00	.25	0.00	-0.001, 0.001	.47				
Child gestational age at birth (weeks)	-0.03	-0.31, 0.25	.85	0.20	-0.14, 0.54	.26				

Supplementary Table 5 (continued)

CI=Confidence Interval. a) Cardio-metabolic pregnancy conditions included early pregnancy body mass index [BMI]≥25kg/m2, chronic hypertension, preeclampsia, gestational hypertension or unspecified hypertension in current pregnancy [ICD-10: I1, 010-011, O13-O16], and/or type 1, type 2 or gestational diabetes [ICD-10: E08-E14, O24]. b) All mental and behavioral disorder diagnoses classified using the International Classification of Diseases, 8th (ICD-8; codes 290-315) and 9th (ICD-9; codes 290-319) Revisions and the International Statistical Classification of Diseases and Related Health Problems, 10th (ICD-10) Revision (codes F00-F99).

Supplementary Table 6. Associations between positive maternal mental health and internalizing and externalizing problems among children in early childhood and in late childhood.

		Int	ernalizin	ıg prob	lems	Externalizing problems							
	Early	childhood (r	Late	childhood (n	=2001)	Early	childhood (r	=2296)	Late	childhood (n	=2001)		
	В	95%CI	p	В	95%CI	р	В	95%CI	р	В	95%CI	p	
Positive maternal mental health													
composite score													
Model 1	-1.39	-1.77, -1.01	<.001	-1.78	-2.21, -1.36	<.001	-1.37	-1.73, -1.01	<.001	-1.57	-2.00, -1.15	<.001	
Model 2	-1.27	-1.70, -0.83	<.001	-1.55	-2.03, -1.08	<.001	-1.08	-1.50, -0.66	<.001	-1.49	-1.97, -1.00	<.001	

CI=Confidence Interval.

Model 1 is adjusted for child sex and age at assesment of psychiatric problems.

Model 2 is adjusted for covariates of Model 1 and child's birth weight and gestational age, maternal age, marital status, education level, parity, substance use during pregnancy, cardio-metabolic pregnancy conditions, and negative mental health, i.e., clinically relevant depressive symptoms (CES-D) during pregnancy and/or mental disorders by the child's early childhood and late childhood follow-ups.

Supplementary Table 7. Three-way interactions between positive maternal mental health composite score, negative maternal mental health, and child age when predicting total psychiatric problems in children.

	T	otal problem	ıs
	В	95%CI	р
Positive maternal mental health x Continuous CES-D score x Child age	-0.08	-0.14, -0.02	.008
Positive maternal mental health x Maternal mental disorders before or during			
pregnancy x Child age	0.07	-0.20, 0.34	.61
Positive maternal mental health x Maternal clinically relevant depressive symptoms			
and/or mental disorders before or during pregnancy x Child age	-0.07	-0.27, 0.12	.46

CI=Confidence Interval. CES-D=Center for Epidemiologic Studies Depression Scale.

Supplementary table 8. Interactions between positive maternal mental health and child sex when predicting total, internalizing and externalizing problems at the two follow-ups, and the main effects of positive maternal mental health on child psychiatric problems separately for boys and for girls.

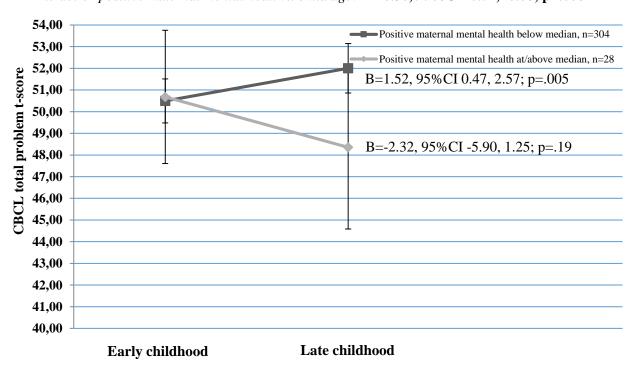
			Total p	roblems				In	ternalizin	ıg proble	ems		Externalizing problems					
	Early childhood (n=2296) Late childhood (n=2001)					Early c	Early childhood (n=2296) Late childhood (n=2001					Early childhood (n=2296) Late childhood (n=2001)					n=2001)	
	В	95%CI	р	В	95%CI	p	В	95%CI	p	В	95%CI	p	В	95%CI	p	В	95%CI	p
Positive maternal mental health composite score*child sex	0.09	-0.65, 0.82	.81	0.32	-0.56, 1.20	.48	-0.07	-0.84, 0.69	.85	0.08	-0.76, 0.92	.85	0.53	-0.19, 1.26	.15	0.32	-0.53, 1.17	.46
Main effects of positive maternal mental health composite score																		
Boys	-1.65	-2.17, -1.13 -2.08,	<.001	-2.17	-2.81, -1.54 -2.46,	<.001	-1.35	-1.88, -0.83 -1.98,	<.001	-1.82	-2.41, -1.24 -2.35,	<.001	-1.62	-2.14, -1.10 -1.59,	<.001	-1.72	-2.36, -1.08 -1.95,	<.001
Girls	-1.56	-1.04	<.001	-1.86	-1.26	<.001	-1.43	-0.87	<.001	-1.74	-1.14	<.001	-1.08	-0.57	<.001	-1.40	-0.85	<.001

CI = Confidence Interval.

Supplementary Figure 1. Change in total psychiatric problems t-scores from early childhood to late childhood among children of mothers with low (below median) and high (at or above median) levels of positive mental health composite score during pregnancy, in the subgroups of mothers with/without clinically relevant depressive symptoms during pregnancy (Panels A-B), in the subgroups of mothers with/without clinically relevant depressive symptoms and/or mental disorders before or during pregnancy (Panels E-F). Analyses are adjusted for child's sex, and conducted among mother-child-dyads with psychiatric problems data available at both follow-ups (n=1661).

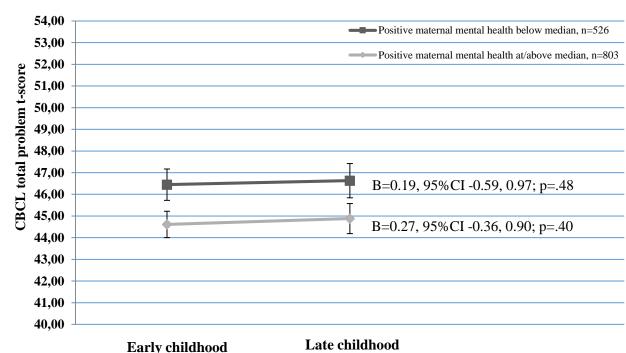
Panel A: Mothers with clinically relevant depressive symptoms during pregnancy, n=332

Interaction positive maternal mental health x child age: B=-0.30, 95%CI -0.51, -0.08; p=.006



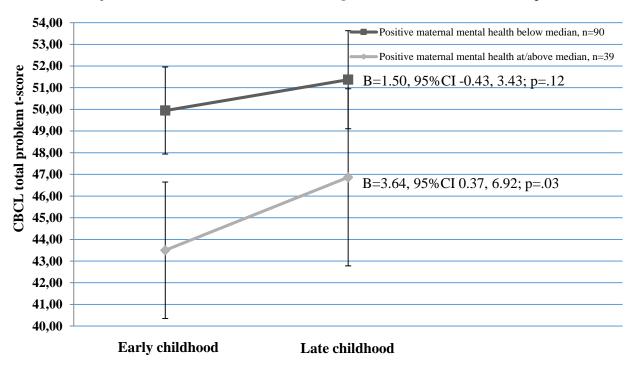
Panel B: Mothers without clinically relevant depressive symptoms during pregnancy, n=1329

Interaction positive maternal mental health x child age: B=-0.04, 95%CI -0.13, 0.06; p=.47



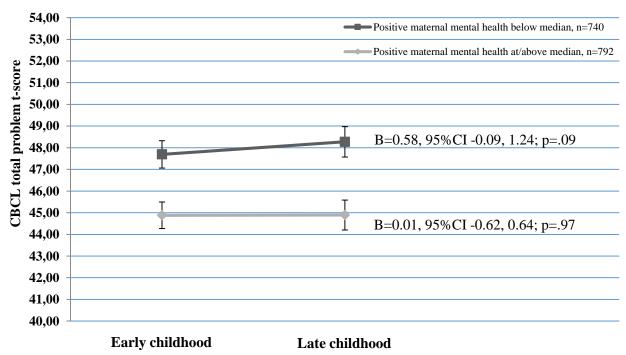
Panel C: Mothers with a mental disorder before/during pregnancy, n=129

Interaction positive maternal mental health x child age: B=-0.03, 95% CI -0.29, 0.24; p=.85



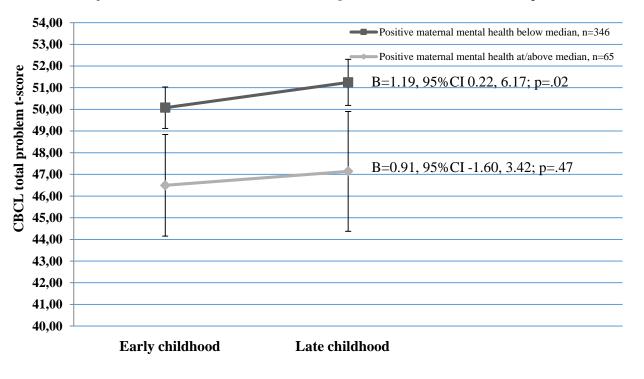
Panel D: Mothers with no mental disorders before/during pregnancy, n=1532

Interaction positive maternal mental health x child age: B=-0.09, 95% CI -0.17, 0.02; p=.02



Panel E: Mothers with clinically relevant depressive symptoms and/or mental disorders before or during pregnancy, n=411

Interaction positive maternal mental health x child age: B=-0.13, 95%CI -0.30, 0.04; p=.13



Panel F: Mothers without clinically relevant depressive symptoms or mental disorders before or during pregnancy, n=1250

Interaction positive maternal mental health x child age: B=-0.06, 95%CI -0.16, 0.04; p=.25

