

Table S1. Description of the sample (n=11,583)

Maternal et environmental risk or protective factors	
Perceived antenatal emotional support from partner	n (%)
<i>Antenatal emotional support from spouse</i>	
Very good support	6,155 (53.1)
Good support	4,543 (39.2)
Little support	776 (6.7)
No support	109 (0.9)
<i>Quarrels with or without insults within the couple</i>	
Never	2,184 (18.9)
Rarely	4,741 (40.9)
Sometimes without insults	2,606 (22.5)
Sometimes with insults	2,052 (17.7)
Perceived postnatal instrumental support	n (%)
<i>For baby's care</i>	
Changing diapers	
Mainly the mother	8,918 (77.0)
Mainly the father	65 (0.6)
Equal division of the labour	2,566 (22.2)
Another person	34 (0.3)
Not concerned	0 (0)
Feeding	
Mainly the mother	9,180 (79.3)
Mainly the father	37 (0.3)
Equal division of the labour	2,215 (19.1)
Another person	32 (0.3)
Not concerned	119 (1.0)
Wash	
Mainly the mother	7,553 (65.2)
Mainly the father	829 (7.2)
Equal division of the labour	3,187 (27.5)
Another person	14 (0.1)
Not concerned	0 (0)
Put it to sleep	
Mainly the mother	6,266 (54.1)
Mainly the father	466 (4.0)
Equal division of the labour	4,842 (41.8)
Another person	8 (0.1)
Not concerned	1 (0.0)
Taking it for a walk	
Mainly the mother	6,389 (55.2)
Mainly the father	94 (0.8)
Equal division of the labour	4,975 (43.0)
Another person	48 (0.4)
Not concerned	77 (0.7)

Getting up in the night because of cries	
Mainly the mother	8,283 (71.5)
Mainly the father	367 (3.2)
Equal division of the labour	2,748 (23.7)
Another person	3 (0.0)
Not concerned	182 (1.6)
Taking it to the doctor	
Mainly the mother	7,457 (64.4)
Mainly the father	60 (0.5)
Equal division of the labour	4,051 (35.0)
Another person	1 (0.0)
Not concerned	14 (0.1)
<i>For household chores</i>	
Washing dishes	
Mainly the mother	4,608 (39.8)
Mainly the father	1,437 (12.4)
Equal division of the labour	5,396 (46.6)
Another person	140 (1.2)
Not concerned	2 (0.0)
Doing shopping	
Mainly the mother	4,580 (39.5)
Mainly the father	2,312 (20.0)
Equal division of the labour	4,627 (39.9)
Another person	51 (0.4)
Not concerned	13 (0.1)
Preparing meals	
Mainly the mother	6,762 (58.4)
Mainly the father	1,607 (13.9)
Equal division of the labour	3,152 (27.2)
Another person	61 (0.5)
Not concerned	1 (0.0)
Doing laundry	
Mainly the mother	9,593 (82.8)
Mainly the father	377 (3.3)
Equal division of the labour	1,513 (13.1)
Another person	99 (0.9)
Not concerned	1 (0.0)
Doing the housework	
Mainly the mother	6,280 (54.2)
Mainly the father	646 (5.6)
Equal division of the labour	3,795 (32.8)
Another person	853 (7.4)
Not concerned	9 (0.1)
Repairs	
Mainly the mother	488 (4.2)
Mainly the father	8,967 (77.4)

Equal division of the labour	1,328 (11.5)
Another person	578 (5.0)
Not concerned	222 (1.9)
Maternal antenatal preventive measures	n (%)
<i>Attending early prenatal interview, attending antenatal classes</i>	
Attending the two	3,400 (29.4)
Attending one	4,675 (40.4)
Attending none	3,508 (30.3)
Obstetrical complications	n (%)
<i>Complications during pregnancy</i>	
None	4,964 (42.9)
Level 3	4,438 (38.3)
Level 4	2,148 (18.5)
Level 5 or 6	33 (0.3)
<i>Complications at birth or neonatal complications</i>	
None	1,452 (12.5)
Level 3	7,122 (61.5)
Level 4	1,653 (14.3)
Level 5 or 6	1,356 (11.7)
Psychological factors	n (%)
<i>Reaction about the current pregnancy</i>	
Happy that it happened now	8,923 (77.0)
Ambivalent towards this pregnancy	2,480 (21.4)
Unwanted pregnancy	180 (1.6)
Maternal et environmental risk or protective factors	
Psychological factors	n (%)
<i>Experience of pregnancy</i>	
Pleasant	4,155 (35.9)
Pleasant with some difficulties	5,704 (49.2)
Difficult	1,724 (14.9)
<i>Desire of pregnancy</i>	
Yes	10,992 (94.9)
With hesitations	53 (0.5)
No	538 (4.6)
<i>Prenatal psychological distress</i>	
Yes	1,361 (11.8)
No	10,222 (88.3)
Infant characteristics and environmental factors specific to parenthood	
Early maternal parenting behavior	n (%)
<i>Maternal ability to understand infant's cry</i>	
Rarely	139 (1.2)
Sometimes	987 (8.5)
Often	10,457 (90.3)
<i>Respect of infant's feeding rhythm</i>	

Wakes him to feed	277 (2.4)
Requests him at regular time but only if baby is awake	2,363 (20.4)
Feeds him on demand	8,943 (77.2)
<i>Mother's reaction if baby eats little or don't finish his bottle (without illness context)</i>	
Insists to feed him	1,103 (9.5)
Proposes him later	2,477 (21.4)
Don't insist or it never happens	8,003 (69.1)
<hr/> Infants' physical health <hr/>	
<i>Infants' condition evaluated by the mother</i>	
Healthy	10,054 (86.8)
Rather healthy	1,431 (12.4)
Rather poor health or poor health	98 (0.8)
<i>Infant hospitalization since returning from maternity hospital stay</i>	
Yes	672 (5.8)
No	10,911 (94.2)
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Infant risk or protective factors	
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Infants' self-regulation skills	n (%)
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<i>Self-appeasement</i>	
Never or almost never	1,234 (10.7)
Often only	3,780 (32.6)
Only if parents remain with him	1,199 (10.4)
Only if parents take him in arms	5,370 (46.4)
<i>Frequency of crying</i>	
Rarely	7,629 (65.9)
Often	3,421 (29.5)
Very often	533 (4.6)
<i>Nocturnal awakenings</i>	
Never or almost never	3,948 (34.1)
Sometimes or often	2,041 (17.6)
All nights or almost	5,594 (48.3)

Table S2. Characteristics of women with missing data (n=6,722)

Maternal and environmental vulnerability factors	
Socio-demographic and economic variables	n (%)
<i>Mother's age</i>	
18-24	1333 (19.8)
25-34	3895 (57.9)
≥ 35 years	1299 (19.3)
Missing	195 (2.9)
<i>Nationality</i>	
French	5120 (76.2)
French by naturalisation	342 (5.1)
Foreigner	960 (14.3)
Missing	300 (4.5)
<i>Educational level</i>	
< 9	1,988 (29.6)
9-11	1,711 (25.5)
≥ 12 years	2,833 (42.1)
Missing	190 (2.8)
<i>Mother's employment status during pregnancy</i>	
Employed or student	4,096 (60.9)
Housewife, on parental leave or retired	492 (7.3)
Unemployed	1,138 (16.9)
Missing	996 (14.8)
<i>Number of children</i>	
1	3,022 (45.0)
2	1,993 (29.6)
3 or more	1,426 (21.2)
Missing	281 (4.2)
<i>Familial financial status</i>	
High and middle	2,104 (31.3)
Low	1,773 (26.4)
Very low	646 (9.6)
Missing	2,199 (32.7)
Psychiatric history	n (%)
<i>Consultation with a mental health specialist before pregnancy (psychiatrist, psychologist, psychotherapist or another doctor)</i>	
Yes	603 (9.0)
No	1,820 (27.1)
Missing	4,299 (64.0)
<i>Depression during a previous pregnancy</i>	
Yes	447 (6.6)
No	5,907 (87.9)
Missing	368 (5.5)

Table S3. Socio-demographic and economic variables correlation matrix

	Mother's age	Nationality	Educational level	Mother's employment status during pregnancy	Familial financial status	Number of children
Mother's age	1.00	0.04	-0.22	0.09	-0.05	0.31
Nationality		1.00	0.02	0.12	0.05	0.02
Educational level			1.00	0.25	0.25	0.13
Mother's employment status during pregnancy				1.00	0.14	0.13
Familial financial status					1.00	0.11
Number of children						1.00

KMO = 0.52

Table S4. Perceived antenatal emotional support from partner correlation matrix

	Antenatal emotional support from spouse	Quarrels with or without insults
Antenatal emotional support from spouse	1.00	0.31
Quarrels with or without insults		1.00

Table S5. Eigenvalues of Perceived antenatal emotional support from partner correlation matrix

	Eigenvalues	Difference	Variance explained	Cumulative
1	1.31	0.62	0.65	0.65
2	0.69		0.35	1.00

Table S6. Factor solution of Perceived antenatal emotional support from partner correlation matrix

Représentation du facteur	
	Factor 1
Antenatal emotional support from spouse	0.81
Quarrels with or without insults	0.81

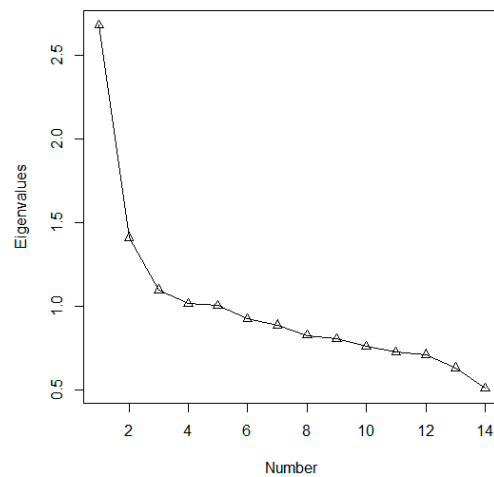
Table S7. Perceived postnatal instrumental support correlation matrix

	Changing diapers	Feeding	Put to bed	Wash	Taking for a walk	Getting up in the night	Taking it to the doctor	Washing dishes	Doing shopping	Prepa ring meals	Doing laundry	Doing the housework	Repairs
Changing diapers	1.00	0.48	0.29	0.27	0.28	0.26	0.20	0.12	0.06	0.09	0.11	0.10	0.01
Feeding		1.00	0.27	0.11	0.27	0.28	0.18	0.05	-0.001	0.05	0.05	0.02	-0.002
Put to bed			1.00	0.29	0.19	0.30	0.15	0.10	0.04	0.06	0.07	0.07	0.01
Wash				1.00	0.12	0.12	0.16	0.09	0.07	0.09	0.08	0.12	0.02
Taking for a walk					1.00	0.16	0.25	0.06	0.12	0.10	0.08	0.04	0.01
Getting up in the night						1.00	0.14	0.09	0.01	0.05	0.07	0.06	-0.002
Taking it to the doctor							1.00	0.04	0.19	0.08	0.08	0.03	0.02
Washing dishes								1.00	0.13	0.21	0.23	0.27	0.02
Doing shopping									1.00	0.25	0.14	0.10	0.03
Preparing meals										1.00	0.10	0.11	0.02
Doing laundry											1.00	0.20	0.04
Doing the housework												1.00	0.05
Repairs													1.00

KMO = 0.74

Table S8. Eigenvalues of Perceived postnatal instrumental support correlation matrix

	Eigenvalues	Difference	Variance Explained	Cumulative
1	2.60	1.05	0.19	0.19
2	1.55	0.41	0.11	0.30
3	1.14	0.11	0.08	0.38
4	1.03	0.05	0.07	0.45
5	0.98	0.03	0.07	0.52
6	0.95	0.05	0.07	0.59
7	0.90	0.07	0.06	0.65
8	0.83	0.05	0.06	0.71
9	0.78	0.05	0.06	0.77
10	0.73	0.02	0.05	0.82
11	0.71	0.03	0.05	0.87
12	0.68	0.05	0.05	0.92
13	0.63	0.15	0.05	0.97
14	0.48		0.03	1.00

**Figure S1.** Graphic representation of the eigenvalues of Perceived postnatal instrumental support**Table S9.** Factor solution of Perceived postnatal instrumental support after Varimax rotation

	Factor 1	Factor 2
Changing diapers	0.73	0.05
Feeding	0.70	-0.12
Put to bed	0.61	0.03
Wash	0.44	0.18
Taking for a walk	0.54	0.08
Getting up in the night	0.57	-0.02
Taking it to the doctor	0.43	0.15
Wash	0.11	0.63
Doing shopping	0.06	0.54
Preparing meals	0.10	0.54
Doing laundry	0.10	0.54
Doing the housework	0.06	0.58
Repairs	-0.01	0.15

Table S10. Obstetrical complications correlation matrix

	Complications during Pregnancy	Complications at Birth Or Neonatal Complications
Complications during pregnancy	1.00	0.11
Complications at birth or neonatal complications		1.00

Table S11. Psychological factors correlation matrix

	Desire of Pregnancy	Reaction about the Current Pregnancy	Experience of Pregnancy
Desire of pregnancy	1.00	0.23	0.07
Reaction about the current pregnancy		1.00	0.09
Experience of pregnancy			1.00

KMO =0.53

Table S12. Early maternal parenting behaviour correlation matrix

	Sing songs	Talk o the child	Maternal ability to understand infant's cries	Respect of infant's feeding rhythm	Mother's reaction if baby eats little or don't finish his bottle
Sing songs	1,00	0,08	0,02	0,03	0,01
Talk o the child		1,00	0,03	-0,00	0,02
Maternal ability to understand infant's cries			1,00	0,01	0,03
Respect of infant's feeding rhythm				1,00	0,08
Mother's reaction if baby eats little or don't finish his bottle					1,00

KMO =0.52

Table S13. Infant's physical health matrix correlation

	Infant's condition evaluated by the mother	Infant's hospitalisation since returning from maternity hospital
Infant's condition evaluated by the mother	1.00	0.26
Infant's hospitalisation since returning from maternity hospital		1.00

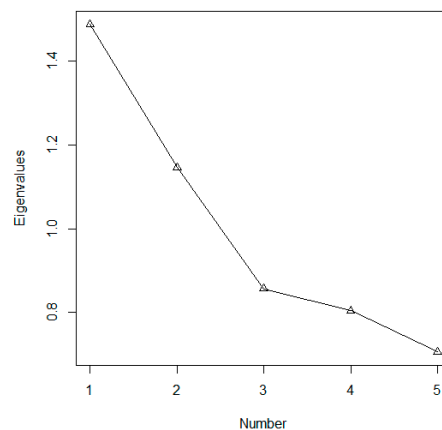
Table S14. Infants' self-regulation skills correlation matrix

	Self-Appeasement	Frequency of Crying	Nocturnal Awakenings
Self-appeasement	1.00	0.29	0.18
Frequency of crying		1.00	0.18
Nocturnal awakenings			1.00

KMO = 0.57

Table S15. Eigen values of Self-regulation skills correlation matrix

	Eigen values	Difference	Variance Explicated	Cumulative
1	1.50	0.36	0.25	0.25
2	1.14	0.12	0.19	0.44
3	1.02	0.16	0.16	0.61
4	0.86	0.05	0.14	0.75
5	0.80	0.11	0.13	0.89
6	0.69		0.11	1.00

**Figure S2.** Graphic representation of the eigen values of Self-regulation skills**Table S16.** Factor solution of Self-regulation skills

	Facteur 1
Self-appaisement	0,68
Frequency of crying	0,66
Nocturnal awakenings	0,60