

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> | |
| <i>Changing diapers</i> | |
| 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) |
| <i>Feeding</i> | |
| 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) |
| <i>Wash</i> | |
| 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) |
| <i>Put it to sleep</i> | |
| 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) |
| <i>Taking it for a walk</i> | |
| 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) |

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|--|--------------|
| 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) |
| <hr/> | |
| Infant risk or protective factors | |
| <hr/> | |
| Infants' self-regulation skills | n (%) |
| <hr/> | |
| <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) |
| <hr/> | |

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 |

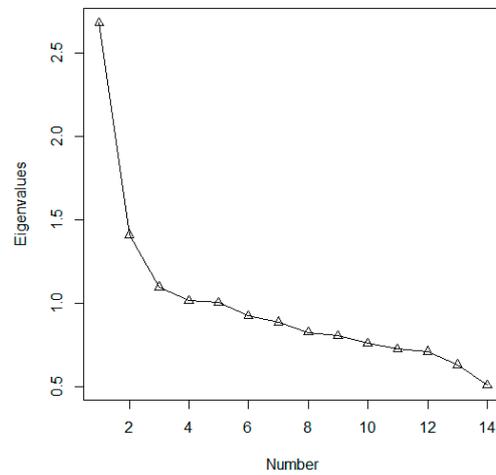


Figure S1. Graphic representation of the eigenvalues of Perceived postnatal instrumental support

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 |

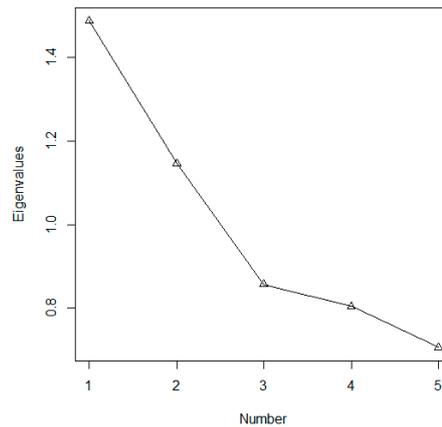


Figure S2. Graphic representation of the eigen values of Self-regulation skills

Table S16. Factor solution of Self-regulation skills

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